APPENDIX E

Laboratory Analytical Reports
And
Chain-of-Custody Documentation

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: WMATA CSA 0444100

Client PO: Q7679

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Andres Acosta

Received Date: 10/15/2021

Report Date: 11/19/2021

Deliverables: MDE-R

Lab ID: AD26669

Lab Project No: 1101503

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1101503

Sample Summary

Client: Intertek-PSI
Project: WMATA CSA 0444100

HC Project #: 1101503

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD26669-001	SB-004 SS	Soil	10/14/2021	10/15/2021

HC Case Narrative

Client: Intertek **HC Project:** 1101503
Project: WMATA CSA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 96999 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for 95380 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

The Post Spike, Matrix Spike and/or Matrix Spike Duplicate for batch 96447 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 96447. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batch 96447 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

11/22/21
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1101503

Project: WMATA CSA 0444100

Lab#: AD26669-001 **Sample ID: SB-004 SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.6	16	EPA 6010D
Lead	mg/kg	5.6	270	EPA 6010D
Arsenic	mg/kg	0.22	5.8	EPA 6020B
Total Petroleum Hydrocarbons	mg/kg	67	97	EPA 8015D
Anthracene	mg/kg	0.19	0.22	EPA 8270E
Benzo[a]anthracene	mg/kg	0.19	0.84	EPA 8270E
Benzo[a]pyrene	mg/kg	0.19	0.71	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.19	0.98	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.19	0.47	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.19	0.33	EPA 8270E
Chrysene	mg/kg	0.19	0.71	EPA 8270E
Fluoranthene	mg/kg	0.19	1.6	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.19	0.44	EPA 8270E
Phenanthrene	mg/kg	0.19	0.86	EPA 8270E
Pyrene	mg/kg	0.19	1.3	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA CSA 0444100

HC Project #: 1101503

Sample ID: SB-004 SS
Lab#: AD26669-001
Matrix: Soil

Collection Date: 10/14/2021
Receipt Date: 10/15/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	67	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	93.8	mg/kg	26	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.6	16
Lead	1	mg/kg	5.6	270

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.22	5.8
Cadmium	1	mg/kg	0.45	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	5	mg/kg	0.19	ND
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.19	ND
1,2-Diphenylhydrazine	5	mg/kg	0.19	ND
1,4-Dioxane	5	mg/kg	0.094	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.19	ND
2,4,5-Trichlorophenol	5	mg/kg	0.19	ND
2,4,6-Trichlorophenol	5	mg/kg	0.19	ND
2,4-Dichlorophenol	5	mg/kg	0.070	ND
2,4-Dimethylphenol	5	mg/kg	0.091	ND
2,4-Dinitrophenol	5	mg/kg	0.94	ND
2,4-Dinitrotoluene	5	mg/kg	0.19	ND
2,6-Dinitrotoluene	5	mg/kg	0.19	ND
2-Chloronaphthalene	5	mg/kg	0.19	ND
2-Chlorophenol	5	mg/kg	0.19	ND
2-Methylnaphthalene	5	mg/kg	0.19	ND
2-Methylphenol	5	mg/kg	0.054	ND
2-Nitroaniline	5	mg/kg	0.19	ND
2-Nitrophenol	5	mg/kg	0.19	ND
3&4-Methylphenol	5	mg/kg	0.055	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.19	ND
3-Nitroaniline	5	mg/kg	0.19	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	0.94	ND
4-Bromophenyl-phenylether	5	mg/kg	0.19	ND
4-Chloro-3-methylphenol	5	mg/kg	0.19	ND
4-Chloroaniline	5	mg/kg	0.082	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.19	ND
4-Nitroaniline	5	mg/kg	0.19	ND

Sample ID: SB-004 SS
Lab#: AD26669-001
Matrix: Soil

Collection Date: 10/14/2021
Receipt Date: 10/15/2021

4-Nitrophenol	5	mg/kg	0.19	ND
Acenaphthene	5	mg/kg	0.19	ND
Acenaphthylene	5	mg/kg	0.19	ND
Acetophenone	5	mg/kg	0.19	ND
Anthracene	**5**	**mg/kg**	**0.19**	**0.22**
Atrazine	5	mg/kg	0.19	ND
Benzaldehyde	5	mg/kg	2.0	ND
Benzidine	5	mg/kg	0.33	ND
Benzo[a]anthracene	**5**	**mg/kg**	**0.19**	**0.84**
Benzo[a]pyrene	**5**	**mg/kg**	**0.19**	**0.71**
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.19**	**0.98**
Benzo[g,h,i]perylene	**5**	**mg/kg**	**0.19**	**0.47**
Benzo[k]fluoranthene	**5**	**mg/kg**	**0.19**	**0.33**
Benzyl alcohol	5	mg/kg	0.19	ND
bis(2-Chloroethoxy)methane	5	mg/kg	0.19	ND
bis(2-Chloroethyl)ether	5	mg/kg	0.047	ND
bis(2-Chloroisopropyl)ether	5	mg/kg	0.19	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	0.19	ND
Butylbenzylphthalate	5	mg/kg	0.19	ND
Caprolactam	5	mg/kg	0.19	ND
Carbazole	5	mg/kg	0.19	ND
Chrysene	**5**	**mg/kg**	**0.19**	**0.71**
Dibenzo[a,h]anthracene	5	mg/kg	0.19	ND
Dibenzofuran	5	mg/kg	0.047	ND
Diethylphthalate	5	mg/kg	0.19	ND
Dimethylphthalate	5	mg/kg	0.19	ND
Di-n-butylphthalate	5	mg/kg	0.21	ND
Di-n-octylphthalate	5	mg/kg	0.19	ND
Fluoranthene	**5**	**mg/kg**	**0.19**	**1.6**
Fluorene	5	mg/kg	0.19	ND
Hexachlorobenzene	5	mg/kg	0.19	ND
Hexachlorobutadiene	5	mg/kg	0.19	ND
Hexachlorocyclopentadiene	5	mg/kg	0.61	ND
Hexachloroethane	5	mg/kg	0.19	ND
Indeno[1,2,3-cd]pyrene	**5**	**mg/kg**	**0.19**	**0.44**
Isophorone	5	mg/kg	0.19	ND
Naphthalene	5	mg/kg	0.054	ND
Nitrobenzene	5	mg/kg	0.19	ND
N-Nitrosodimethylamine	5	mg/kg	0.23	ND
N-Nitroso-di-n-propylamine	5	mg/kg	0.070	ND
N-Nitrosodiphenylamine	5	mg/kg	0.63	ND
Pentachlorophenol	5	mg/kg	0.94	ND
Phenanthrene	**5**	**mg/kg**	**0.19**	**0.86**
Phenol	5	mg/kg	0.19	ND
Pyrene	**5**	**mg/kg**	**0.19**	**1.3**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**67**	**97**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethane	0.986	mg/kg	0.0022	ND

Sample ID: SB-004 SS
Lab#: AD26669-001
Matrix: Soil

Collection Date: 10/14/2021
Receipt Date: 10/15/2021

1,1-Dichloroethene	0.986	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.986	mg/kg	0.0022	ND
1,2-Dibromoethane	0.986	mg/kg	0.00055	ND
1,2-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dichloroethane	0.986	mg/kg	0.0022	ND
1,2-Dichloropropane	0.986	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dioxane	0.986	mg/kg	0.11	ND
2-Butanone	0.986	mg/kg	0.0022	ND
2-Hexanone	0.986	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.986	mg/kg	0.0022	ND
Acetone	0.986	mg/kg	0.011	ND
Acrolein	0.986	mg/kg	0.011	ND
Acrylonitrile	0.986	mg/kg	0.0022	ND
Benzene	0.986	mg/kg	0.0011	ND
Bromochloromethane	0.986	mg/kg	0.0022	ND
Bromodichloromethane	0.986	mg/kg	0.0022	ND
Bromoform	0.986	mg/kg	0.0022	ND
Bromomethane	0.986	mg/kg	0.0022	ND
Carbon disulfide	0.986	mg/kg	0.0038	ND
Carbon tetrachloride	0.986	mg/kg	0.0022	ND
Chlorobenzene	0.986	mg/kg	0.0022	ND
Chloroethane	0.986	mg/kg	0.0022	ND
Chloroform	0.986	mg/kg	0.0022	ND
Chloromethane	0.986	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Cyclohexane	0.986	mg/kg	0.0022	ND
Dibromochloromethane	0.986	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.986	mg/kg	0.0022	ND
Ethylbenzene	0.986	mg/kg	0.0011	ND
Isopropylbenzene	0.986	mg/kg	0.0011	ND
m&p-Xylenes	0.986	mg/kg	0.0013	ND
Methyl Acetate	0.986	mg/kg	0.0022	ND
Methylcyclohexane	0.986	mg/kg	0.0022	ND
Methylene chloride	0.986	mg/kg	0.0022	ND
Methyl-t-butyl ether	0.986	mg/kg	0.0011	ND
o-Xylene	0.986	mg/kg	0.0011	ND
Styrene	0.986	mg/kg	0.0022	ND
t-Butyl Alcohol	0.986	mg/kg	0.011	ND
Tetrachloroethene	0.986	mg/kg	0.0022	ND
Toluene	0.986	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Trichloroethene	0.986	mg/kg	0.0022	ND
Trichlorofluoromethane	0.986	mg/kg	0.0022	ND
Vinyl chloride	0.986	mg/kg	0.0022	ND
Xylenes (Total)	0.986	mg/kg	0.0011	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 1101503

Project: WMATA CSA 0444100

Lab#: AD26669-001 **Sample ID: SB-004 SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/17/21 00:00	disham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/27/21 10:35	Lynda	EPA 8015D	10/27/21 14:13	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/15/21 15:26	JM
RCRA Metals 6010D	3005&10/3050	10/18/21 09:00	asilva	EPA 6010D	10/18/21 16:56	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	10/18/21 09:00	asilva	EPA 6020B	10/18/21 18:12	PC
Semivolatile Organics (no search) 8270	3510C/3550C	10/26/21 09:41	AT	EPA 8270E	10/26/21 17:49	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/27/21 10:35	Lynda	EPA 8015D	10/27/21 14:13	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/19/21 22:26	SG

Chain of Custody

1101503 0010

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1101503

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
6 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlek
Address: 2930 Eskridge Rd, Fairfax, VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andres.acosta@interlek.com
1d) Send Report to: andres + rinzo.renthlei@interlek.com

Project Information

2a) Project: WMATA CSA 0444100
2b) Project Mgr: Andres Acosta
2c) Project Location (City/State): Washington, D.C
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

Batch # AD26669

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	7) Analysis: 8260 VOC	8270 SVOC	TPH-DRO/GRO/cAO	4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
001	SB-004SS	S	10/14	11:20		X	X	X	X	X	1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX		
FEDEX	[signature]	10/15/21	10:36

11) Sampler (print name): RINZO RENTHLEI Date: 10/14/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2°C

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD26669 Entered By: maxwell

Date Entered 10/15/2021 10:39:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD26669-001	10/15/21 10:36	MAXW	0	M	Received
AD26669-001	10/15/21 10:39	MAXW	0	M	Login
AD26669-001	10/15/21 16:18	R12	1	A	NONE
AD26669-001	10/15/21 22:36	PA	1	A	mx
AD26669-001	10/15/21 22:36	R12	1	A	NONE
AD26669-001	10/18/21 08:52	ANS	1	A	TDSI
AD26669-001	10/26/21 09:41	AT	1	A	BNA
AD26669-001	10/26/21 13:21	R12	1	A	NONE
AD26669-001	10/27/21 10:35	LV	1	A	TPH
AD26669-001	10/15/21 10:41	R31	2	A	NONE
AD26669-001	10/18/21 10:36	SG	2	M	VOA
AD26669-001	10/18/21 11:36	R31	2	A	NONE
AD26669-001	10/15/21 10:41	F18	3	A	NONE
AD26669-001	10/15/21 10:41	F16	4	A	NONE
AD26669-001	10/15/21 16:30	R30	5	A	NONE
AD26669-001	10/15/21 16:29	R31	6	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26669-001
Client Id: SB-004 SS
Data File: 2M158419.D
Analysis Date: 10/19/21 22:26
Date Rec/Extracted: 10/15/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.07g
Final Vol: NA
Dilution: 0.986
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.00055	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	75-65-0	t-Butyl Alcohol	0.011	U
107-02-8	Acrolein	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
107-13-1	Acrylonitrile	0.0022	U	108-88-3	Toluene	0.0011	U
71-43-2	Benzene	0.0011	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
74-97-5	Bromochloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	79-01-6	Trichloroethene	0.0022	U
75-25-2	Bromoform	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
75-15-0	Carbon Disulfide	0.0038	U	1330-20-7	Xylenes (Total)	0.0011	U

Worksheet #: 614694

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

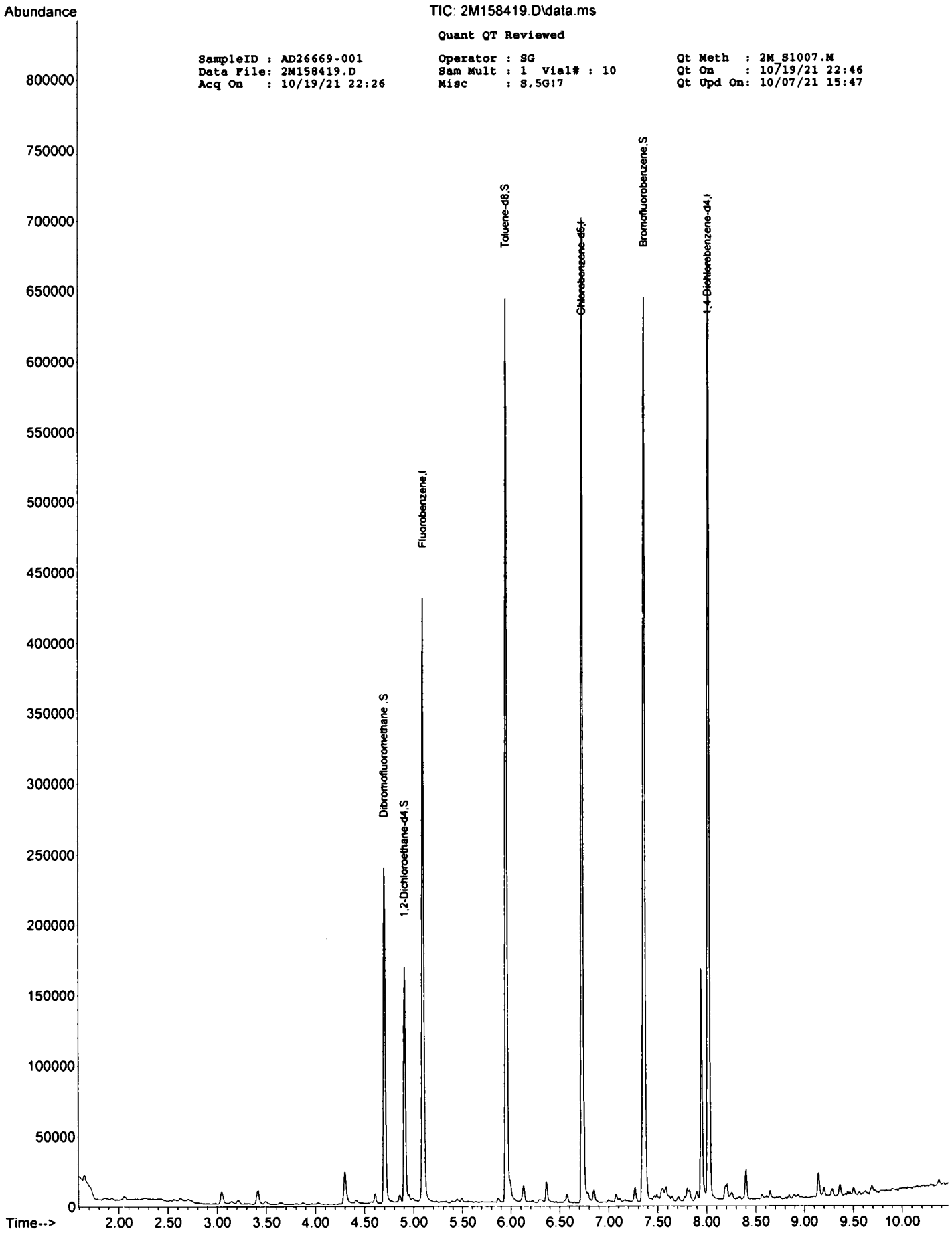
SampleID : AD26669-001 Operator : SG Qt Meth : 2M_S1007.M
Data File: 2M158419.D Sam Mult : 1 Vial# : 10 Qt On : 10/19/21 22:46
Acq On : 10/19/21 22:26 Misc : S,5G!7 Qt Upd On: 10/07/21 15:47

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-19-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	261652	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	299170	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	161959	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	89502	33.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.33%			
39) 1,2-Dichloroethane-d4	4.910	67	38712	31.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.23%			
66) Toluene-d8	5.952	98	289461	27.85	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.83%			
76) Bromofluorobenzene	7.367	174	172501	38.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 126.90%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M158419.D\data.ms
Quant QT Reviewed
SampleID : AD26669-001
Data File: 2M158419.D
Acq On : 10/19/21 22:26
Operator : SG
Sam Mult : 1 Vial# : 10
Misc : S,5G!7
Qt Meth : 2M_S1007.M
Qt On : 10/19/21 22:46
Qt Upd On: 10/07/21 15:47
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M158395.D
Analysis Date: 10/19/21 13:58
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 614694

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : DAILY BLANK Operator : SG Qt Meth : 2M_S1007.M
Data File: 2M158395.D Sam Mult : 1 Vial# : 6 Qt On : 10/19/21 14:48
Acq On : 10/19/21 13:58 Misc : S,5G Qt Upd On: 10/07/21 15:47

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-19-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	273359	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	350262	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	266602	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	89284m	32.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.27%			
39) 1,2-Dichloroethane-d4	4.910	67	37670	29.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.93%			
66) Toluene-d8	5.952	98	315500	25.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.43%			
76) Bromofluorobenzene	7.367	174	226097	30.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.03%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

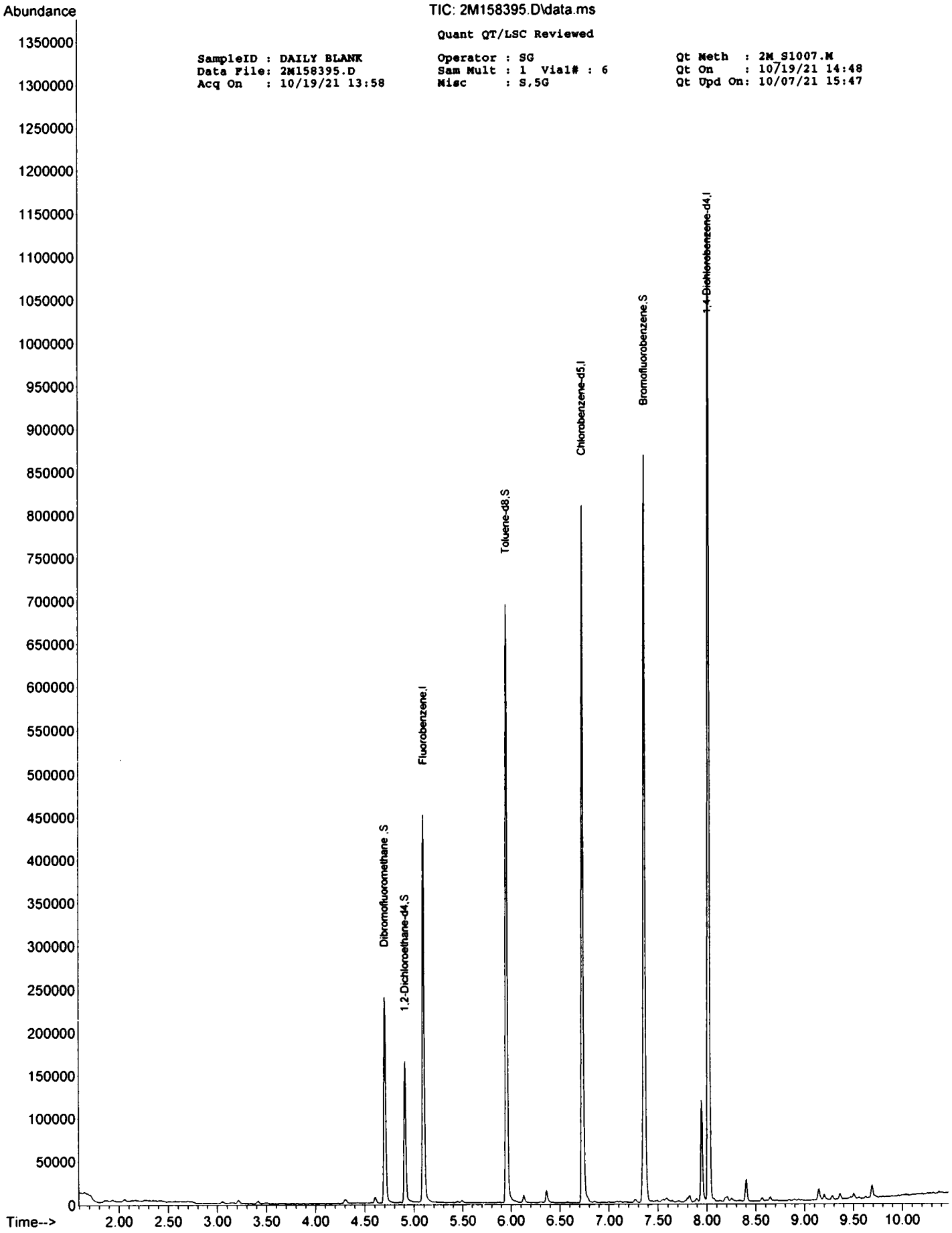
TIC: 2M158395.D\data.ms

Quant QT/LSC Reviewed

SampleID : DAILY BLANK
Data File: 2M158395.D
Acq On : 10/19/21 13:58

Operator : SG
Sam Mult : 1 Vial# : 6
Misc : S,5G

Qt Meth : 2M_S1007.M
Qt On : 10/19/21 14:48
Qt Upd On: 10/07/21 15:47



FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2M158395.D	DAILY BLANK	S	10/19/21 13:58	1		107	99	86	101		
2M158419.D	AD26669-001	S	10/19/21 22:26	1		112	106	93	127		
2M158396.D	MBS96999	S	10/19/21 14:19	1		109	98	89	102		
2M158402.D	AD26701-001(MS)	S	10/19/21 16:26	1		110	98	90	119		
2M158403.D	AD26701-001(MSD)	S	10/19/21 16:47	1		110	100	90	121		
2M158412.D	AD26701-001	S	10/19/21 19:57	1		111	103	90	129		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96999

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158396.D	MBS96999	10/19/2021 2:19:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	34.8509	0	50	70	20	130
Dichlorodifluoromethane	1	62.1328	0	50	124	20	130
Chloromethane	1	55.9914	0	50	112	20	130
Bromomethane	1	44.8695	0	50	90	20	130
Vinyl Chloride	1	53.7351	0	50	107	20	130
Chloroethane	1	44.1514	0	50	88	20	130
Trichlorofluoromethane	1	42.9411	0	50	86	20	130
Ethyl ether	1	41.1079	0	50	82	50	130
Furan	1	37.2536	0	50	75	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	44.527	0	50	89	50	130
Methylene Chloride	1	45.5082	0	50	91	50	130
Acrolein	1	204.0314	0	200	102	20	130
Acrylonitrile	1	41.0674	0	50	82	20	130
Iodomethane	1	33.3846	0	50	67	50	130
Acetone	1	179.0602	0	200	90	20	130
Carbon Disulfide	1	43.1093	0	50	86	50	130
t-Butyl Alcohol	1	202.6016	0	200	101	20	130
n-Hexane	1	46.5163	0	50	93	50	130
Di-isopropyl-ether	1	45.796	0	50	92	50	130
1,1-Dichloroethene	1	45.0208	0	50	90	50	130
Methyl Acetate	1	40.0056	0	50	80	50	130
Methyl-t-butyl ether	1	48.5237	0	50	97	50	130
1,1-Dichloroethane	1	45.9572	0	50	92	50	130
trans-1,2-Dichloroethene	1	47.9434	0	50	96	50	130
Ethyl-t-butyl ether	1	45.4596	0	50	91	50	130
cis-1,2-Dichloroethene	1	46.381	0	50	93	50	130
Bromochloromethane	1	44.7497	0	50	89	50	130
2,2-Dichloropropane	1	50.233	0	50	100	50	130
Ethyl acetate	1	41.8395	0	50	84	50	130
1,4-Dioxane	1	2058.146	0	2500	82	50	130
1,1-Dichloropropene	1	46.3707	0	50	93	50	130
Chloroform	1	48.2313	0	50	96	50	130
Cyclohexane	1	43.4372	0	50	87	50	130
1,2-Dichloroethane	1	48.6163	0	50	97	50	130
2-Butanone	1	55.2698	0	50	111	20	130
1,1,1-Trichloroethane	1	49.4312	0	50	99	50	130
Carbon Tetrachloride	1	49.6251	0	50	99	50	130
Vinyl Acetate	1	45.8251	0	50	92	50	130
Bromodichloromethane	1	50.1915	0	50	100	50	130
Methylcyclohexane	1	46.2571	0	50	93	50	130
Dibromomethane	1	52.6796	0	50	105	50	130
1,2-Dichloropropane	1	46.4496	0	50	93	50	130
Trichloroethene	1	48.6442	0	50	97	50	130
Benzene	1	46.8709	0	50	94	50	130
tert-Amyl methyl ether	1	48.8938	0	50	98	50	130
Iso-propylacetate	1	35.7419	0	50	71	50	130
Methyl methacrylate	1	35.3054	0	50	71	50	130
Dibromochloromethane	1	42.8742	0	50	86	50	130
2-Chloroethylvinylether	1	40.1496	0	50	80	50	130
cis-1,3-Dichloropropene	1	40.9909	0	50	82	50	130
trans-1,3-Dichloropropene	1	42.0222	0	50	84	50	130
Ethyl methacrylate	1	37.9703	0	50	76	50	130
1,1,2-Trichloroethane	1	40.4829	0	50	81	50	130
1,2-Dibromoethane	1	41.1034	0	50	82	50	130
1,3-Dichloropropane	1	40.4014	0	50	81	50	130
4-Methyl-2-Pentanone	1	39.5347	0	50	79	20	130
2-Hexanone	1	38.1663	0	50	76	20	130
Tetrachloroethene	1	39.7704	0	50	80	50	130
Toluene	1	37.6081	0	50	75	50	130
1,1,1,2-Tetrachloroethane	1	41.3428	0	50	83	50	130
Chlorobenzene	1	39.4081	0	50	79	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96999

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	38.0878	0	50	76	50	130
n-Amyl acetate	1	35.7491	0	50	71	50	130
Bromoform	**1**	**42.7952**	**0**	**50**	**86**	**20**	**130**
Ethylbenzene	**1**	**37.4512**	**0**	**50**	**75**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**37.8008**	**0**	**50**	**76**	**50**	**130**
Styrene	**1**	**38.6134**	**0**	**50**	**77**	**50**	**130**
m&p-Xylenes	**1**	**72.7286**	**0**	**100**	**73**	**50**	**130**
o-Xylene	**1**	**37.4004**	**0**	**50**	**75**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	33.4106	0	50	67	20	130
1,3-Dichlorobenzene	**1**	**37.2372**	**0**	**50**	**74**	**50**	**130**
1,4-Dichlorobenzene	**1**	**36.8771**	**0**	**50**	**74**	**50**	**130**
1,2-Dichlorobenzene	**1**	**37.0233**	**0**	**50**	**74**	**50**	**130**
Isopropylbenzene	**1**	**37.2415**	**0**	**50**	**74**	**50**	**130**
Cyclohexanone	1	157.8442	0	250	63	50	130
Camphene	1	35.6732	0	50	71	50	130
1,2,3-Trichloropropane	1	36.7833	0	50	74	50	130
2-Chlorotoluene	1	36.5173	0	50	73	50	130
p-Ethyltoluene	1	34.5249	0	50	69	50	130
4-Chlorotoluene	1	35.8201	0	50	72	50	130
n-Propylbenzene	1	36.3491	0	50	73	50	130
Bromobenzene	1	36.5879	0	50	73	50	130
1,3,5-Trimethylbenzene	1	35.8818	0	50	72	50	130
Butyl methacrylate	1	35.3158	0	50	71	50	130
t-Butylbenzene	1	36.3481	0	50	73	50	130
1,2,4-Trimethylbenzene	1	35.1773	0	50	70	50	130
sec-Butylbenzene	1	36.6557	0	50	73	50	130
4-Isopropyltoluene	1	34.6942	0	50	69	50	130
n-Butylbenzene	1	35.5858	0	50	71	50	130
p-Diethylbenzene	1	33.9802	0	50	68	50	130
1,2,4,5-Tetramethylbenzene	1	35.1491	0	50	70	50	130
1,2-Dibromo-3-Chloropropane	**1**	**38.0923**	**0**	**50**	**76**	**50**	**130**
Camphor	1	346.1135	0	500	69	50	130
Hexachlorobutadiene	1	37.988	0	50	76	50	130
1,2,4-Trichlorobenzene	**1**	**39.241**	**0**	**50**	**78**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**39.5001**	**0**	**50**	**79**	**50**	**130**
Naphthalene	1	39.1567	0	50	78	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96999

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158402.D	AD26701-001(MS)	10/19/2021 4:26:00 PM
Non Spike(If applicable):	2M158412.D	AD26701-001	10/19/2021 7:57:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	34.5919	0	50	69	20	130
Dichlorodifluoromethane	1	77.0153	0	50	154*	20	130
Chloromethane	1	69.0393	0	50	138*	20	130
Bromomethane	1	53.4119	0	50	107	20	130
Vinyl Chloride	1	67.1709	0	50	134*	20	130
Chloroethane	1	56.1953	0	50	112	20	130
Trichlorofluoromethane	1	50.0653	0	50	100	20	130
Ethyl ether	1	49.516	0	50	99	50	130
Furan	1	46.4071	0	50	93	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	46.3058	0	50	93	50	130
Methylene Chloride	1	56.3006	0	50	113	50	130
Acrolein	1	230.6295	0	200	115	20	130
Acrylonitrile	1	52.5609	0	50	105	20	130
Iodomethane	1	41.2553	0	50	83	50	130
Acetone	1	239.8572	0	200	120	20	130
Carbon Disulfide	1	49.0298	0	50	98	50	130
t-Butyl Alcohol	1	260.0838	0	200	130	20	130
n-Hexane	1	60.7057	0	50	121	50	130
Di-isopropyl-ether	1	55.7989	0	50	112	50	130
1,1-Dichloroethene	1	52.737	0	50	105	50	130
Methyl Acetate	1	55.6627	0	50	111	50	130
Methyl-t-butyl ether	1	59.6434	0	50	119	50	130
1,1-Dichloroethane	1	56.0762	0	50	112	50	130
trans-1,2-Dichloroethene	1	56.6904	0	50	113	50	130
Ethyl-t-butyl ether	1	56.6377	0	50	113	50	130
cis-1,2-Dichloroethene	1	56.3495	0	50	113	50	130
Bromochloromethane	1	55.0702	0	50	110	50	130
2,2-Dichloropropane	1	60.2343	0	50	120	50	130
Ethyl acetate	1	70.7026	0	50	141*	50	130
1,4-Dioxane	1	2623.13	0	2500	105	50	130
1,1-Dichloropropene	1	51.2532	0	50	103	50	130
Chloroform	1	58.3617	0	50	117	50	130
Cyclohexane	1	36.8913	0	50	74	50	130
1,2-Dichloroethane	1	59.5817	0	50	119	50	130
2-Butanone	1	184.6982	0	50	369*	20	130
1,1,1-Trichloroethane	1	57.0165	0	50	114	50	130
Carbon Tetrachloride	1	54.2497	0	50	108	50	130
Vinyl Acetate	1	50.2584	0	50	101	50	130
Bromodichloromethane	1	60.9577	0	50	122	50	130
Methylcyclohexane	1	30.2168	0	50	60	50	130
Dibromomethane	1	64.2048	0	50	128	50	130
1,2-Dichloropropane	1	54.9258	0	50	110	50	130
Trichloroethene	1	55.1231	0	50	110	50	130
Benzene	1	55.3672	0	50	111	50	130
tert-Amyl methyl ether	1	60.3676	0	50	121	50	130
Iso-propylacetate	1	46.7034	0	50	93	50	130
Methyl methacrylate	1	47.7769	0	50	96	50	130
Dibromochloromethane	1	53.9159	0	50	108	50	130
2-Chloroethylvinylether	1	50.6331	0	50	101	50	130
cis-1,3-Dichloropropene	1	52.145	0	50	104	50	130
trans-1,3-Dichloropropene	1	53.9145	0	50	108	50	130
Ethyl methacrylate	1	46.6509	0	50	93	50	130
1,1,2-Trichloroethane	1	51.2811	0	50	103	50	130
1,2-Dibromoethane	1	51.8897	0	50	104	50	130
1,3-Dichloropropane	1	50.9362	0	50	102	50	130
4-Methyl-2-Pentanone	1	49.8272	0	50	100	20	130
2-Hexanone	1	47.4869	0	50	95	20	130
Tetrachloroethene	1	39.3753	0	50	79	50	130
Toluene	1	44.0805	0	50	88	50	130
1,1,1,2-Tetrachloroethane	1	48.7632	0	50	98	50	130
Chlorobenzene	1	45.5773	0	50	91	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96999

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	54.8935	0	50	110	50	130
n-Amyl acetate	1	50.1152	0	50	100	50	130
Bromoform	1	64.1556	0	50	128	20	130
Ethylbenzene	1	48.3751	0	50	97	50	130
1,1,2,2-Tetrachloroethane	1	56.6432	0	50	113	50	130
Styrene	1	52.1063	0	50	104	50	130
m&p-Xylenes	1	92.1774	0	100	92	50	130
o-Xylene	1	47.2635	0	50	95	50	130
trans-1,4-Dichloro-2-butene	1	40.5566	0	50	81	20	130
1,3-Dichlorobenzene	1	39.3122	0	50	79	50	130
1,4-Dichlorobenzene	1	38.844	0	50	78	50	130
1,2-Dichlorobenzene	1	40.2418	0	50	80	50	130
Isopropylbenzene	1	39.709	0	50	79	50	130
Cyclohexanone	1	268.7473	0	250	107	50	130
Camphene	1	22.0313	0	50	44*	50	130
1,2,3-Trichloropropane	1	56.299	0	50	113	50	130
2-Chlorotoluene	1	41.0602	0	50	82	50	130
p-Ethyltoluene	1	33.9165	0	50	68	50	130
4-Chlorotoluene	1	41.704	0	50	83	50	130
n-Propylbenzene	1	35.3664	0	50	71	50	130
Bromobenzene	1	44.1636	0	50	88	50	130
1,3,5-Trimethylbenzene	1	33.2496	0	50	66	50	130
Butyl methacrylate	1	44.5517	0	50	89	50	130
t-Butylbenzene	1	31.5016	0	50	63	50	130
1,2,4-Trimethylbenzene	1	33.7935	0	50	68	50	130
sec-Butylbenzene	1	27.041	0	50	54	50	130
4-Isopropyltoluene	1	24.9667	0	50	50	50	130
n-Butylbenzene	1	22.9361	0	50	46*	50	130
p-Diethylbenzene	1	22.7249	0	50	45*	50	130
1,2,4,5-Tetramethylbenzene	1	22.32	0	50	45*	50	130
1,2-Dibromo-3-Chloropropane	1	51.8307	0	50	104	50	130
Camphor	1	580.5237	0	500	116	50	130
Hexachlorobutadiene	1	12.8175	0	50	26*	50	130
1,2,4-Trichlorobenzene	1	24.1331	0	50	48*	50	130
1,2,3-Trichlorobenzene	1	24.2301	0	50	48*	50	130
Naphthalene	1	33.0715	0	50	66	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96999

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158403.D	AD26701-001(MSD)	10/19/2021 4:47:00 PM
Non Spike(If applicable):	2M158412.D	AD26701-001	10/19/2021 7:57:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	32.0523	0	50	64	20	130
Dichlorodifluoromethane	1	80.1376	0	50	160*	20	130
Chloromethane	1	73.961	0	50	148*	20	130
Bromomethane	1	54.6376	0	50	109	20	130
Vinyl Chloride	1	69.6082	0	50	139*	20	130
Chloroethane	1	55.8433	0	50	112	20	130
Trichlorofluoromethane	1	52.1225	0	50	104	20	130
Ethyl ether	1	50.8102	0	50	102	50	130
Furan	1	47.5465	0	50	95	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	50.4385	0	50	101	50	130
Methylene Chloride	1	57.0178	0	50	114	50	130
Acrolein	1	239.7268	0	200	120	20	130
Acrylonitrile	1	53.2294	0	50	106	20	130
Iodomethane	1	47.6091	0	50	95	50	130
Acetone	1	245.9524	0	200	123	20	130
Carbon Disulfide	1	53.9544	0	50	108	50	130
t-Butyl Alcohol	1	273.6722	0	200	137*	20	130
n-Hexane	1	61.3534	0	50	123	50	130
Di-isopropyl-ether	1	57.1512	0	50	114	50	130
1,1-Dichloroethene	1	55.9768	0	50	112	50	130
Methyl Acetate	1	56.4518	0	50	113	50	130
Methyl-t-butyl ether	1	60.5994	0	50	121	50	130
1,1-Dichloroethane	1	58.1604	0	50	116	50	130
trans-1,2-Dichloroethene	1	61.1392	0	50	122	50	130
Ethyl-t-butyl ether	1	57.1746	0	50	114	50	130
cis-1,2-Dichloroethene	1	58.5296	0	50	117	50	130
Bromochloromethane	1	55.4763	0	50	111	50	130
2,2-Dichloropropane	1	62.7887	0	50	126	50	130
Ethyl acetate	1	71.7029	0	50	143*	50	130
1,4-Dioxane	1	2873.205	0	2500	115	50	130
1,1-Dichloropropene	1	55.5909	0	50	111	50	130
Chloroform	1	60.5754	0	50	121	50	130
Cyclohexane	1	43.4409	0	50	87	50	130
1,2-Dichloroethane	1	60.3188	0	50	121	50	130
2-Butanone	1	186.5186	0	50	373*	20	130
1,1,1-Trichloroethane	1	60.4082	0	50	121	50	130
Carbon Tetrachloride	1	58.1313	0	50	116	50	130
Vinyl Acetate	1	50.7399	0	50	101	50	130
Bromodichloromethane	1	63.0033	0	50	126	50	130
Methylcyclohexane	1	38.6731	0	50	77	50	130
Dibromomethane	1	66.5123	0	50	133*	50	130
1,2-Dichloropropane	1	58.0823	0	50	116	50	130
Trichloroethene	1	59.5147	0	50	119	50	130
Benzene	1	58.3253	0	50	117	50	130
tert-Amyl methyl ether	1	61.6096	0	50	123	50	130
Iso-propylacetate	1	47.933	0	50	96	50	130
Methyl methacrylate	1	49.3724	0	50	99	50	130
Dibromochloromethane	1	57.1832	0	50	114	50	130
2-Chloroethylvinylether	1	53.6342	0	50	107	50	130
cis-1,3-Dichloropropene	1	55.5433	0	50	111	50	130
trans-1,3-Dichloropropene	1	56.2619	0	50	113	50	130
Ethyl methacrylate	1	48.3304	0	50	97	50	130
1,1,2-Trichloroethane	1	54.5552	0	50	109	50	130
1,2-Dibromoethane	1	54.6161	0	50	109	50	130
1,3-Dichloropropane	1	52.9905	0	50	106	50	130
4-Methyl-2-Pentanone	1	52.6432	0	50	105	20	130
2-Hexanone	1	51.3114	0	50	103	20	130
Tetrachloroethene	1	44.4167	0	50	89	50	130
Toluene	1	48.151	0	50	96	50	130
1,1,1,2-Tetrachloroethane	1	51.8622	0	50	104	50	130
Chlorobenzene	1	49.5208	0	50	99	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96999

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	59.5191	0	50	119	50	130
n-Amyl acetate	1	53.7913	0	50	108	50	130
Bromoform	1	70.3371	0	50	141 *	20	130
Ethylbenzene	1	55.0363	0	50	110	50	130
1,1,2,2-Tetrachloroethane	1	58.9936	0	50	118	50	130
Styrene	1	58.0733	0	50	116	50	130
m&p-Xylenes	1	104.7394	0	100	105	50	130
o-Xylene	1	53.8365	0	50	108	50	130
trans-1,4-Dichloro-2-butene	1	45.7193	0	50	91	20	130
1,3-Dichlorobenzene	1	46.548	0	50	93	50	130
1,4-Dichlorobenzene	1	46.1564	0	50	92	50	130
1,2-Dichlorobenzene	1	46.3443	0	50	93	50	130
Isopropylbenzene	1	47.0896	0	50	94	50	130
Cyclohexanone	1	318.3755	0	250	127	50	130
Camphene	1	30.0027	0	50	60	50	130
1,2,3-Trichloropropane	1	60.1988	0	50	120	50	130
2-Chlorotoluene	1	48.8158	0	50	98	50	130
p-Ethyltoluene	1	41.1515	0	50	82	50	130
4-Chlorotoluene	1	47.1383	0	50	94	50	130
n-Propylbenzene	1	43.3274	0	50	87	50	130
Bromobenzene	1	50.0559	0	50	100	50	130
1,3,5-Trimethylbenzene	1	41.7187	0	50	83	50	130
Butyl methacrylate	1	51.6051	0	50	103	50	130
t-Butylbenzene	1	39.8698	0	50	80	50	130
1,2,4-Trimethylbenzene	1	40.6887	0	50	81	50	130
sec-Butylbenzene	1	35.8974	0	50	72	50	130
4-Isopropyltoluene	1	33.5657	0	50	67	50	130
n-Butylbenzene	1	31.8993	0	50	64	50	130
p-Diethylbenzene	1	31.45	0	50	63	50	130
1,2,4,5-Tetramethylbenzene	1	29.9786	0	50	60	50	130
1,2-Dibromo-3-Chloropropane	1	57.9704	0	50	116	50	130
Camphor	1	658.0074	0	500	132 *	50	130
Hexachlorobutadiene	1	20.134	0	50	40 *	50	130
1,2,4-Trichlorobenzene	1	31.2638	0	50	63	50	130
1,2,3-Trichlorobenzene	1	30.7771	0	50	62	50	130
Naphthalene	1	38.9136	0	50	78	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS96999

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158403.D	AD26701-001(MSD)	10/19/2021 4:47:00 PM
Duplicate(If applicable):	2M158402.D	AD26701-001(MS)	10/19/2021 4:26:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	32.0523	34.5919	7.6	30
Dichlorodifluoromethane	1	80.1376	77.0153	4	30
Chloromethane	1	73.961	69.0393	6.9	30
Bromomethane	1	54.6376	53.4119	2.3	30
Vinyl Chloride	1	69.6082	67.1709	3.6	40
Chloroethane	1	55.8433	56.1953	0.63	30
Trichlorofluoromethane	1	52.1225	50.0653	4	30
Ethyl ether	1	50.8102	49.516	2.6	30
Furan	1	47.5465	46.4071	2.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	50.4385	46.3058	8.5	30
Methylene Chloride	1	57.0178	56.3006	1.3	30
Acrolein	1	239.7268	230.6295	3.9	30
Acrylonitrile	1	53.2294	52.5609	1.3	30
Iodomethane	1	47.6091	41.2553	14	30
Acetone	1	245.9524	239.8572	2.5	30
Carbon Disulfide	1	53.9544	49.0298	9.6	30
t-Butyl Alcohol	1	273.6722	260.0838	5.1	30
n-Hexane	1	61.3534	60.7057	1.1	30
Di-isopropyl-ether	1	57.1512	55.7989	2.4	30
1,1-Dichloroethene	1	55.9768	52.737	6	40
Methyl Acetate	1	56.4518	55.6627	1.4	30
Methyl-t-butyl ether	1	60.5994	59.6434	1.6	30
1,1-Dichloroethane	1	58.1604	56.0762	3.6	40
trans-1,2-Dichloroethene	1	61.1392	56.6904	7.6	30
Ethyl-t-butyl ether	1	57.1746	56.6377	0.94	30
cis-1,2-Dichloroethene	1	58.5296	56.3495	3.8	30
Bromochloromethane	1	55.4763	55.0702	0.73	30
2,2-Dichloropropane	1	62.7887	60.2343	4.2	30
Ethyl acetate	1	71.7029	70.7026	1.4	30
1,4-Dioxane	1	2873.205	2623.13	9.1	30
1,1-Dichloropropene	1	55.5909	51.2532	8.1	30
Chloroform	1	60.5754	58.3617	3.7	40
Cyclohexane	1	43.4409	36.8913	16	30
1,2-Dichloroethane	1	60.3188	59.5817	1.2	40
2-Butanone	1	186.5186	184.6982	0.98	40
1,1,1-Trichloroethane	1	60.4082	57.0165	5.8	30
Carbon Tetrachloride	1	58.1313	54.2497	6.9	40
Vinyl Acetate	1	50.7399	50.2584	0.95	30
Bromodichloromethane	1	63.0033	60.9577	3.3	30
Methylcyclohexane	1	38.6731	30.2168	25	30
Dibromomethane	1	66.5123	64.2048	3.5	30
1,2-Dichloropropane	1	58.0823	54.9258	5.6	30
Trichloroethene	1	59.5147	55.1231	7.7	40
Benzene	1	58.3253	55.3672	5.2	40
tert-Amyl methyl ether	1	61.6096	60.3676	2	30
Iso-propylacetate	1	47.933	46.7034	2.6	30
Methyl methacrylate	1	49.3724	47.7769	3.3	30
Dibromochloromethane	1	57.1832	53.9159	5.9	30
2-Chloroethylvinylether	1	53.6342	50.6331	5.8	30
cis-1,3-Dichloropropene	1	55.5433	52.145	6.3	30
trans-1,3-Dichloropropene	1	56.2619	53.9145	4.3	30
Ethyl methacrylate	1	48.3304	46.6509	3.5	30
1,1,2-Trichloroethane	1	54.5552	51.2811	6.2	30
1,2-Dibromoethane	1	54.6161	51.8897	5.1	30
1,3-Dichloropropane	1	52.9905	50.9362	4	30
4-Methyl-2-Pentanone	1	52.6432	49.8272	5.5	30
2-Hexanone	1	51.3114	47.4869	7.7	30
Tetrachloroethene	1	44.4167	39.3753	12	40
Toluene	1	48.151	44.0805	8.8	40
1,1,1,2-Tetrachloroethane	1	51.8622	48.7632	6.2	30
Chlorobenzene	1	49.5208	45.5773	8.3	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS96999

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	59.5191	54.8935	8.1	30
n-Amyl acetate	1	53.7913	50.1152	7.1	30
Bromoform	1	70.3371	64.1556	9.2	30
Ethylbenzene	1	55.0363	48.3751	13	30
1,1,2,2-Tetrachloroethane	1	58.9936	56.6432	4.1	30
Styrene	1	58.0733	52.1063	11	30
m&p-Xylenes	1	104.7394	92.1774	13	30
o-Xylene	1	53.8365	47.2635	13	30
trans-1,4-Dichloro-2-butene	1	45.7193	40.5566	12	30
1,3-Dichlorobenzene	1	46.548	39.3122	17	30
1,4-Dichlorobenzene	1	46.1564	38.844	17	40
1,2-Dichlorobenzene	1	46.3443	40.2418	14	40
Isopropylbenzene	1	47.0896	39.709	17	30
Cyclohexanone	1	318.3755	268.7473	17	30
Camphene	1	30.0027	22.0313	31*	30
1,2,3-Trichloropropane	1	60.1988	56.299	6.7	30
2-Chlorotoluene	1	48.8158	41.0602	17	30
p-Ethyltoluene	1	41.1515	33.9165	19	30
4-Chlorotoluene	1	47.1383	41.704	12	30
n-Propylbenzene	1	43.3274	35.3664	20	40
Bromobenzene	1	50.0559	44.1636	13	30
1,3,5-Trimethylbenzene	1	41.7187	33.2496	23	30
Butyl methacrylate	1	51.6051	44.5517	15	30
t-Butylbenzene	1	39.8698	31.5016	23	30
1,2,4-Trimethylbenzene	1	40.6887	33.7935	19	30
sec-Butylbenzene	1	35.8974	27.041	28	40
4-Isopropyltoluene	1	33.5657	24.9667	29	30
n-Butylbenzene	1	31.8993	22.9361	33*	30
p-Diethylbenzene	1	31.45	22.7249	32*	30
1,2,4,5-Tetramethylbenzene	1	29.9786	22.32	29	30
1,2-Dibromo-3-Chloropropane	1	57.9704	51.8307	11	30
Camphor	1	658.0074	580.5237	13	30
Hexachlorobutadiene	1	20.134	12.8175	44*	30
1,2,4-Trichlorobenzene	1	31.2638	24.1331	26	30
1,2,3-Trichlorobenzene	1	30.7771	24.2301	24	30
Naphthalene	1	38.9136	33.0715	16	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M158395.D
Matrix: Soil

Blank Analysis Date: 10/19/21 13:58
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD26669-001	2M158419.D	10/19/21 22:26
AD26701-001	2M158412.D	10/19/21 19:57
AD26701-001(MSD	2M158403.D	10/19/21 16:47
AD26701-001(MS)	2M158402.D	10/19/21 16:26
MBS96999	2M158396.D	10/19/21 14:19

Form 5

Tune Name: BFB TUNE **Data File:** 2M157867.D
Instrument: GCMS 2 **Analysis Date:** 10/07/21 09:49
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.342 to 7.355 min

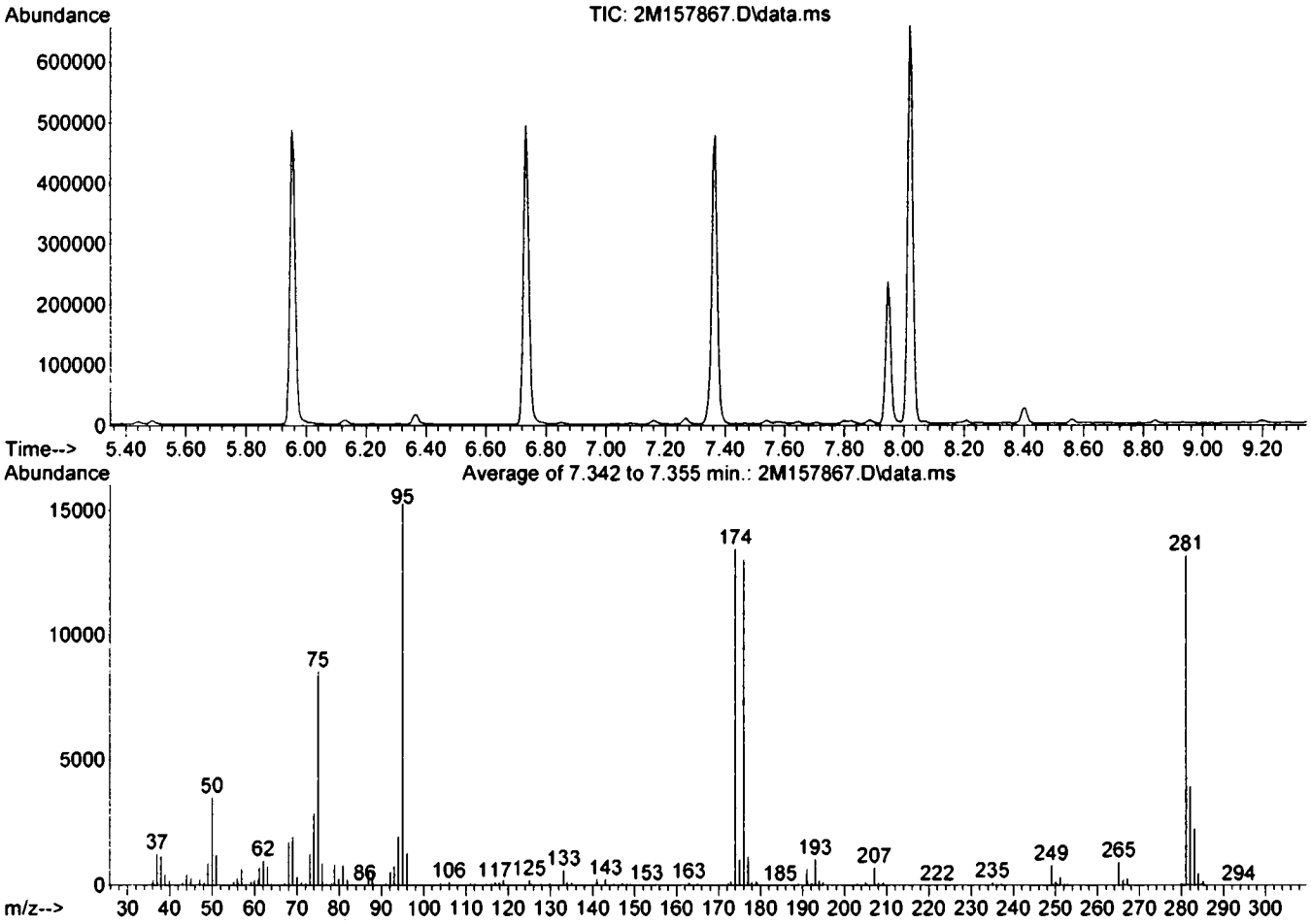
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.0	3515	PASS
75	95	30	60	55.9	8541	PASS
95	95	100	100	100.0	15274	PASS
96	95	5	9	8.5	1299	PASS
173	174	0.00	2	1.1	147	PASS
174	95	50	100	88.2	13478	PASS
175	174	5	9	7.6	1020	PASS
176	174	95	101	96.7	13034	PASS
177	176	5	9	8.8	1142	PASS

Data File	Sample Number	Analysis Date:
2M157868.D	BLK	10/07/21 10:10
2M157871.D	CAL @ 0.5PPB	10/07/21 11:03
2M157872.D	CAL @ 1PPB	10/07/21 11:24
2M157873.D	CAL @ 5PPB	10/07/21 11:45
2M157874.D	CAL @ 2PPB	10/07/21 12:06
2M157875.D	CAL @ 20PPB	10/07/21 12:27
2M157876.D	CAL @ 50PPB	10/07/21 12:48
2M157877.D	CAL @ 100PPB	10/07/21 13:09
2M157878.D	BLK	10/07/21 13:30
2M157879.D	CAL @ 250PPB	10/07/21 13:51
2M157880.D	BLK	10/07/21 14:13
2M157881.D	CAL @ 500PPB	10/07/21 14:34
2M157883.D	BLK	10/07/21 15:16
2M157884.D	BLK	10/07/21 15:37
2M157885.D	BLK	10/07/21 15:58
2M157886.D	STD	10/07/21 16:19

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-07-21\
Data File : 2M157867.D
Acq On : 07 Oct 2021 09:49
Operator : JM
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_S0617.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Jun 18 13:15:35 2021



Spectrum Information: Average of 7.342 to 7.355 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	3515	PASS
75	95	30	60	55.9	8541	PASS
95	95	100	100	100.0	15274	PASS
96	95	5	9	8.5	1299	PASS
173	174	0.00	2	1.1	147	PASS
174	95	50	100	88.2	13478	PASS
175	174	5	9	7.6	1020	PASS
176	174	95	101	96.7	13034	PASS
177	176	5	9	8.8	1142	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 2M158389.D
Instrument: GCMS 2 **Analysis Date:** 10/19/21 11:57
Method: EPA 8260D
Tune Scan/Time Range: Average of 7.348 to 7.348 min

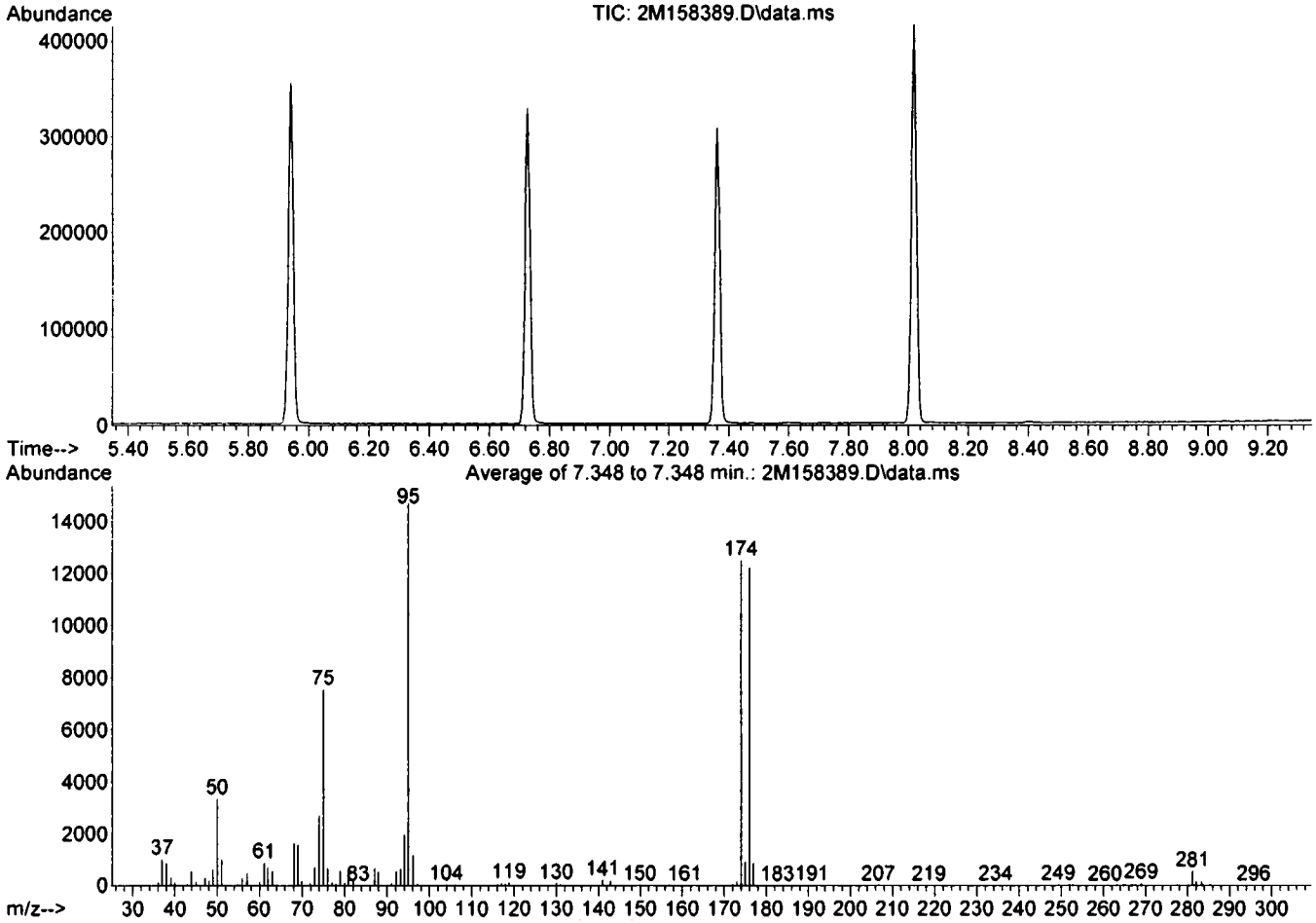
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.9	3363	PASS
75	95	30	60	51.4	7550	PASS
95	95	100	100	100.0	14701	PASS
96	95	5	9	8.1	1185	PASS
173	174	0.00	2	1.3	160	PASS
174	95	50	100	85.1	12512	PASS
175	174	5	9	7.4	921	PASS
176	174	95	101	97.7	12223	PASS
177	176	5	9	7.1	872	PASS

Data File	Sample Number	Analysis Date:
2M158391.D	CAL @ 50PPB	10/19/21 12:34
2M158393.D	BLK	10/19/21 13:16
2M158394.D	BLK	10/19/21 13:37
2M158395.D	DAILY BLANK	10/19/21 13:58
2M158396.D	MBS96999	10/19/21 14:19
2M158397.D	26686-006(MS)	10/19/21 14:40
2M158398.D	26686-006(MSD)	10/19/21 15:01
2M158399.D	26686-006	10/19/21 15:22
2M158400.D	BLK	10/19/21 15:44
2M158401.D	AD26692-005	10/19/21 16:05
2M158402.D	AD26701-001(MS)	10/19/21 16:26
2M158403.D	AD26701-001(MSD	10/19/21 16:47
2M158404.D	AD26701-001	10/19/21 17:08
2M158405.D	BLK	10/19/21 17:29
2M158406.D	AD26692-007	10/19/21 17:51
2M158407.D	AD26669-001	10/19/21 18:12
2M158408.D	AD26728-001	10/19/21 18:33
2M158409.D	AD26728-002	10/19/21 18:54
2M158410.D	BLK	10/19/21 19:15
2M158411.D	AD26728-001	10/19/21 19:36
2M158412.D	AD26701-001	10/19/21 19:57
2M158413.D	MBS97002	10/19/21 20:19
2M158414.D	MBS97003	10/19/21 20:40
2M158415.D	MBS97004	10/19/21 21:01
2M158416.D	MBS97005	10/19/21 21:22
2M158417.D	BLK	10/19/21 21:43
2M158418.D	AD26728-002	10/19/21 22:04
2M158419.D	AD26669-001	10/19/21 22:26

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-19-21\
Data File : 2M158389.D
Acq On : 19 Oct 2021 11:57
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_6\MethodQt\6M_S0915.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 16 14:20:25 2021



Spectrum Information: Average of 7.348 to 7.348 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	3363	PASS
75	95	30	60	51.4	7550	PASS
95	95	100	100	100.0	14701	PASS
96	95	5	9	8.1	1185	PASS
173	174	0.00	2	1.3	160	PASS
174	95	50	100	85.1	12512	PASS
175	174	5	9	7.4	921	PASS
176	174	95	101	97.7	12223	PASS
177	176	5	9	7.1	872	PASS

1101503 0034

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M157875.D	CAL @ 20PPB	10/07/21 12:27	2	2M157873.D	CAL @ 5PPB	10/07/21 11:45
3	2M157874.D	CAL @ 2PPB	10/07/21 12:06	4	2M157876.D	CAL @ 50PPB	10/07/21 12:48
5	2M157877.D	CAL @ 100PPB	10/07/21 13:09	6	2M157879.D	CAL @ 250PPB	10/07/21 13:51
7	2M157881.D	CAL @ 500PPB	10/07/21 14:34	8	2M157872.D	CAL @ 1PPB	10/07/21 11:24
9	2M157871.D	CAL @ 0.5PPB	10/07/21 11:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.3669	0.4357	0.4210	0.4149	0.3758	0.4244	0.4790	-----	-----	0.417	1.70	0.996	1.00	9.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.2450	0.2910	0.2793	0.2760	0.2433	0.2798	0.3036	-----	-----	0.274	1.68	0.998	1.00	8.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1828	0.2484	0.2742	0.2193	0.1970	0.2204	0.2575	-----	-----	0.229	1.86	0.994	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1352	0.1922	0.2133	0.1414	0.1326	0.1616	0.1579	-----	-----	0.162	2.26	0.999	0.999	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.2475	0.2977	0.3036	0.2845	0.2527	0.2897	0.3115	-----	-----	0.284	1.95	0.998	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.1960	0.2102	0.2293	0.1938	0.1717	0.2108	0.2094	-----	-----	0.203	2.34	0.999	0.999	8.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.6107	0.6546	0.6840	0.5927	0.5561	0.6524	0.6847	-----	-----	0.634	2.56	0.998	1.00	7.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.2269	0.2741	0.2262	0.2116	0.2223	0.2475	0.2379	-----	-----	0.235	2.80	0.999	0.999	8.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.5799	0.6586	0.5175	0.4945	0.5594	0.6348	0.5737	-----	-----	0.574	2.84	0.997	0.998	10	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.3261	0.2999	0.3094	0.2851	0.3123	0.3524	0.3315	-----	-----	0.317	3.00	0.999	0.999	7.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.3076	0.3306	0.3723	0.2847	0.2996	0.3312	0.2963	-----	-----	0.317	3.42	0.997	0.999	9.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0482	0.0451	0.0431	0.0428	0.0463	0.0511	0.0454	-----	-----	0.0461	2.92	0.996	0.999	6.3		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.1297	0.1225	0.1184	0.1202	0.1266	0.1290	0.1239	-----	-----	0.124	3.62	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.1996	0.2045	0.2886	0.2364	0.2989	0.3516	0.3347	-----	-----	0.274	3.15	0.998	0.998	22		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.1199	0.1398	0.1752	0.0954	0.1023	0.1081	0.0929	-----	-----	0.119	3.04	0.994	0.999	25	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.8155	0.8282	0.9536	0.7653	0.8445	0.9574	0.8800	-----	-----	0.864	3.22	0.998	0.999	8.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0495	0.0471	0.0516	0.0430	0.0460	0.0503	0.0474	-----	-----	0.0479	3.48	0.999	0.999	6.1		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.4006	0.3552	0.3578	0.3726	0.4052	0.3866	0.4247	-----	-----	0.386	3.87	0.998	1.00	6.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.9516	0.8646	0.8469	0.9036	0.9659	0.8930	0.9610	-----	-----	0.912	4.03	0.999	1.00	5.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.5132	0.4720	0.4365	0.4411	0.4940	0.5549	0.5068	-----	-----	0.488	3.01	0.998	0.999	8.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.3247	0.3265	0.3392	0.2836	0.2988	0.3229	0.2812	-----	-----	0.311	3.32	0.995	0.999	7.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.7694	0.7204	0.7095	0.7418	0.7886	0.7897	0.7890	0.7971	-----	0.763	3.64	1.00	1.00	4.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.5278	0.5172	0.5165	0.4939	0.5252	0.4916	0.5363	-----	-----	0.516	4.00	0.998	1.00	3.3	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.3382	0.3296	0.3015	0.3109	0.3330	0.3405	0.3498	-----	-----	0.329	3.65	1.00	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.8292	0.7642	0.7757	0.8034	0.8560	0.8006	0.8671	-----	-----	0.814	4.29	0.999	1.00	4.8	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.5354	0.5147	0.5028	0.5078	0.5403	0.5130	0.5603	-----	-----	0.525	4.41	0.998	1.00	4.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.2591	0.2554	0.2644	0.2349	0.2468	0.2197	0.2297	-----	-----	0.244	4.57	0.999	0.999	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.4793	0.4414	0.4241	0.4525	0.5060	0.4958	0.5525	-----	-----	0.479	4.42	0.998	1.00	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.3833	0.3884	0.4574	0.3751	0.3909	0.3523	0.3785	-----	-----	0.389	4.43	0.999	0.999	8.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0054	0.0052	0.0055	0.0050	0.0049	0.0047	0.0053	-----	-----	0.00519	5.49	0.997	1.00	5.8		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.4389	0.4416	0.4200	0.4102	0.4406	0.4194	0.4669	-----	-----	0.434	4.82	0.998	1.00	4.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.5858	0.5694	0.5910	0.5547	0.5772	0.5377	0.5837	-----	-----	0.571	4.61	0.999	1.00	3.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.3108	0.3026	0.3055	0.3024	0.3087	0.3073	0.3044	0.3011	0.2973	0.305	4.70	-1	-1	1.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.4925	0.4605	0.4525	0.4487	0.4878	0.4637	0.5114	-----	-----	0.474	4.77	0.998	1.00	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1489	0.1405	0.1400	0.1328	0.1416	0.1375	0.1338	0.1398	0.1382	0.139	4.91	-1	-1	3.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4487	0.4150	0.4044	0.4238	0.4343	0.4093	0.4409	-----	-----	0.425	4.95	0.999	1.00	3.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Qua	0.2066	0.2128	0.2364	0.1505	0.1557	0.1464	0.1530	-----	-----	0.180	4.41	0.999	1.00	21	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.5791	0.5469	0.5083	0.5377	0.5841	0.5589	0.6187	-----	-----	0.562	4.73	0.998	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.5589	0.5069	0.4693	0.5229	0.5683	0.5486	0.6163	-----	-----	0.542	4.83	0.997	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.9770	0.9122	0.9198	0.9328	0.9886	0.9169	0.9838	-----	-----	0.947	4.02	0.999	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.4153	0.3804	0.3846	0.4208	0.4315	0.4235	0.4655	-----	-----	0.417	5.57	0.998	1.00	6.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.65

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0035

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	2M157875.D	CAL @ 20PPB	10/07/21 12:27	2	2M157873.D	CAL @ 5PPB	10/07/21 11:45
3	2M157874.D	CAL @ 2PPB	10/07/21 12:06	4	2M157876.D	CAL @ 50PPB	10/07/21 12:48
5	2M157877.D	CAL @ 100PPB	10/07/21 13:09	6	2M157879.D	CAL @ 250PPB	10/07/21 13:51
7	2M157881.D	CAL @ 500PPB	10/07/21 14:34	8	2M157872.D	CAL @ 1PPB	10/07/21 11:24
9	2M157871.D	CAL @ 0.5PPB	10/07/21 11:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.5340	0.4982	0.4777	0.5139	0.5398	0.5301	0.5959	-----	-----	0.527	5.42	0.997	1.00	7.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.3105	0.3047	0.3106	0.3184	0.3102	0.3112	0.3351	-----	-----	0.314	5.50	0.999	1.00	3.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.2879	0.3013	0.2767	0.2828	0.2873	0.2744	0.2996	-----	-----	0.287	5.43	0.998	1.00	3.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.4121	0.4320	0.4086	0.4080	0.4165	0.4049	0.4558	-----	-----	0.420	5.30	0.997	1.00	4.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.1308	1.1584	1.1142	1.1136	1.1461	1.0928	1.1835	1.1848	-----	1.14	4.95	0.999	1.00	3.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.7392	0.7033	0.6578	0.7644	0.7845	0.7433	0.7903	-----	-----	0.740	4.99	0.999	1.00	6.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.7373	0.5733	0.5729	0.6143	0.7280	0.5802	0.6080	-----	-----	0.631	4.95	0.998	0.998	11	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.3555	0.2774	0.2872	0.2868	0.3392	0.2674	0.2851	-----	-----	0.300	5.45	0.997	0.997	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.4002	0.3360	0.3390	0.3756	0.3877	0.3788	0.4047	-----	-----	0.375	6.42	0.999	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Avg	0.1678	0.1386	0.1262	0.1513	0.1705	0.1459	0.1531	-----	-----	0.151	5.71	0.999	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.4846	0.3864	0.3823	0.4313	0.4609	0.4131	0.4401	-----	-----	0.428	5.80	0.999	0.999	8.8	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.4365	0.3619	0.3509	0.4052	0.4131	0.3977	0.4236	-----	-----	0.398	6.09	0.999	1.00	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.3460	0.2639	0.2711	0.2964	0.3026	0.2864	0.2981	-----	-----	0.295	6.10	1.00	1.00	9.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.2928	0.2656	0.2745	0.2628	0.2612	0.2478	0.2625	-----	-----	0.267	6.20	0.999	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.3213	0.2922	0.2924	0.2922	0.2924	0.2738	0.2897	0.3257	0.3054	0.298	6.49	0.999	1.00	5.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.4804	0.4361	0.4155	0.4228	0.4204	0.3965	0.4269	-----	-----	0.428	6.29	0.999	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.3913	0.3034	0.3015	0.3181	0.3201	0.2960	0.3103	-----	-----	0.320	5.87	0.999	1.00	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.2826	0.2385	0.2469	0.2378	0.2411	0.2224	0.2364	-----	-----	0.244	6.30	0.999	1.00	7.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.4465	0.3837	0.3785	0.3759	0.3901	0.3796	0.4191	-----	-----	0.396	6.29	0.998	1.00	6.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1753	1.0352	1.0324	1.0324	1.0270	1.0294	1.0119	1.0231	1.0128	1.04	5.95	-1	-1	4.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.8693	0.7703	0.7574	0.7435	0.7710	0.7278	0.7854	0.8614	-----	0.786	5.99	0.999	1.00	6.6	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3367	0.3252	0.3439	0.3573	0.3649	0.3572	0.3915	-----	-----	0.354	6.78	0.998	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.9035	0.9256	0.9530	0.8925	0.9147	0.8673	0.9277	-----	-----	0.912	6.74	0.999	1.00	3.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.6890	0.6142	0.6734	0.7061	0.7286	0.6886	0.6953	-----	-----	0.685	6.99	1.00	1.00	5.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.7051	0.6567	0.7142	0.7000	0.7238	0.6712	0.6620	-----	-----	0.690	7.10	1.00	1.00	3.9	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4140	0.3856	0.3667	0.4358	0.4573	0.4474	0.4643	-----	-----	0.424	7.20	1.00	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.5606	0.5173	0.5585	0.5117	0.5280	0.4996	0.5778	0.5350	-----	0.536	6.79	0.996	0.999	5.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.5033	0.5065	0.4848	0.4791	0.4612	0.4316	0.4420	-----	-----	0.473	7.42	1.00	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.8532	0.8403	0.8677	0.8377	0.8277	0.8386	0.7776	0.8588	0.8528	0.839	7.36	-1	-1	3.1		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.3228	1.2713	1.2259	1.2950	1.3233	1.2576	1.3157	-----	-----	1.29	7.07	1.00	1.00	2.9	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.8433	0.8336	0.8007	0.7817	0.7937	0.7439	0.7785	0.8993	1.0343	0.834	6.85	1.00	1.00	10	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8017	0.7761	0.8320	0.7633	0.7874	0.7473	0.7969	0.8166	-----	0.790	7.07	0.999	1.00	3.5	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2626	0.2483	0.2675	0.2542	0.2589	0.2436	0.2550	-----	-----	0.256	7.44	0.999	1.00	3.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.2036	1.1925	1.2498	1.1903	1.1977	1.1044	1.2050	-----	-----	1.19	7.98	0.998	0.999	3.7	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.2300	1.2396	1.3450	1.1871	1.1834	1.0915	1.1911	-----	-----	1.21	8.03	0.998	0.999	6.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.1160	1.0899	1.1857	1.1058	1.1064	1.0229	1.1623	-----	-----	1.11	8.26	0.997	0.999	4.7	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.1690	2.1042	2.0814	2.0752	2.1387	2.0038	2.0098	2.2701	-----	2.11	7.26	1.00	1.00	4.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0254	0.0257	0.0298	0.0226	0.0221	0.0205	0.0215	-----	-----	0.0240	7.34	0.999	1.00	13		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.7595	0.6842	0.6986	0.7436	0.7784	0.7510	0.7990	-----	-----	0.745	7.43	0.999	1.00	5.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.6313	0.6006	0.6442	0.6282	0.6213	0.5802	0.6004	-----	-----	0.615	7.46	1.00	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.2557	1.1739	1.2170	1.2161	1.2263	1.1483	1.1423	-----	-----	1.20	7.56	1.00	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.65
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0036

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M157875.D	CAL @ 20PPB	10/07/21 12:27	2	2M157873.D	CAL @ 5PPB	10/07/21 11:45
3	2M157874.D	CAL @ 2PPB	10/07/21 12:06	4	2M157876.D	CAL @ 50PPB	10/07/21 12:48
5	2M157877.D	CAL @ 100PPB	10/07/21 13:09	6	2M157879.D	CAL @ 250PPB	10/07/21 13:51
7	2M157881.D	CAL @ 500PPB	10/07/21 14:34	8	2M157872.D	CAL @ 1PPB	10/07/21 11:24
9	2M157871.D	CAL @ 0.5PPB	10/07/21 11:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.4479	2.3521	2.4086	2.3844	2.4101	2.2046	2.1692	-----	-----	2.34	7.55	1.00	1.00	4.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.1473	1.1215	1.1648	1.1397	1.1357	1.0886	1.1754	-----	-----	1.14	7.62	0.999	1.00	2.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	2.4362	2.3756	2.4244	2.3376	2.3864	2.1891	2.1767	2.6081	-----	2.37	7.49	1.00	1.00	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.1874	1.1531	1.1633	1.1443	1.1570	1.0756	1.1123	-----	-----	1.14	7.46	1.00	1.00	3.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	1.6142	1.5393	1.5421	1.5368	1.5580	1.4895	1.6620	1.8017	-----	1.59	7.57	0.998	1.00	6.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.6242	0.5231	0.5235	0.6321	0.6311	0.5879	0.6061	0.6434	-----	0.596	7.58	1.00	1.00	8.1	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.8669	1.7951	1.8738	1.8424	1.9094	1.8073	1.9616	1.9515	-----	1.88	7.77	0.999	1.00	3.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.8128	1.7797	1.9665	1.7577	1.7969	1.6682	1.7675	2.2201	-----	1.85	7.79	0.999	1.00	9.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.2964	2.1715	2.1865	2.2420	2.3359	2.1856	2.3669	2.2292	-----	2.25	7.89	0.999	1.00	3.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	2.0532	2.0613	2.3427	2.0037	2.0589	1.9270	2.0964	2.6857	-----	2.15	7.96	0.999	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	2.0660	1.9561	2.0189	2.0457	2.1139	1.9598	2.1089	2.0358	-----	2.04	8.20	0.999	1.00	2.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.2323	1.1527	1.2791	1.2204	1.2754	1.2128	1.3572	-----	-----	1.25	8.18	0.997	1.00	5.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	1.4445	1.3592	1.4781	1.4843	1.5492	1.4808	1.6247	-----	-----	1.49	8.65	0.998	1.00	5.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.1656	0.1555	0.1585	0.1676	0.1784	0.1743	0.1884	-----	-----	0.170	8.71	0.999	1.00	6.8	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0683	0.0598	0.0666	0.0693	0.0726	0.0675	0.0709	-----	-----	0.0679	9.14	0.999	1.00	6.0		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.6438	0.5844	0.6890	0.6516	0.6862	0.6723	0.6894	-----	-----	0.660	9.28	1.00	1.00	5.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.8727	0.8503	0.9907	0.8889	0.9116	0.8431	0.8595	-----	-----	0.888	9.20	1.00	1.00	5.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.7553	0.7718	0.9142	0.7987	0.8073	0.7509	0.7518	-----	-----	0.793	9.50	1.00	1.00	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	1.6442	1.5747	1.8428	1.7185	1.7536	1.6128	1.5568	1.8347	-----	1.69	9.35	0.999	1.00	6.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 6.65
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50PPB **Data File:** 2M158391.D **Instrument:** GCMS 2

Cont Calibration Date/Time 10/19/2021 12:34:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.10	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.70	40.06	50	20	0.1	0.417	0.334	19.87	
Dichlorodifluoromethane	1	0		1.68	52.61	50	20	0.1	0.274	0.288	5.22	
Chloromethane	1	0		1.86	55.94	50	20	0.1	0.229	0.256	11.88	
Bromomethane	1	0		2.25	40.95	50	20	0.1	0.162	0.133	18.10	
Vinyl Chloride	1	0		1.95	54.10	50	20	0.1	0.284	0.307	8.21	
Chloroethane	1	0		2.34	45.92	50	20	0.1	0.203	0.186	8.16	
Trichlorofluoromethane	1	0		2.56	44.53	50	20	0.1	0.634	0.564	10.94	
Ethyl ether	1	0		2.80	47.51	50	20	0.5	0.235	0.224	4.98	
Furan	1	0		2.84	43.55	50	20	0.5	0.574	0.500	12.90	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	48.05	50	20	0.1	0.317	0.304	3.90	
Methylene Chloride	1	0		3.41	50.54	50	20	0.1	0.318	0.321	1.08	
Acrolein	1	0		2.92	215.19	250	20		0.046	0.040	13.93	
Acrylonitrile	1	0		3.62	45.68	50	20		0.124	0.114	8.64	
Iodomethane	1	0		3.15	44.01	50	20		0.274	0.293	11.97	
Acetone	1	0		3.04	197.18	250	20	0.1	0.119	0.090	21.13	C1
Carbon Disulfide	1	0		3.21	46.35	50	20	0.1	0.864	0.801	7.29	
t-Butyl Alcohol	1	0		3.48	219.70	250	20		0.048	0.042	12.12	
n-Hexane	1	0		3.87	51.41	50	20		0.386	0.397	2.82	
Di-isopropyl-ether	1	0		4.03	51.73	50	20		0.912	0.944	3.45	
1,1-Dichloroethene	1	0		3.01	48.47	50	20	0.1	0.488	0.473	3.06	
Methyl Acetate	1	0		3.32	42.32	50	20	0.1	0.311	0.263	15.36	
Methyl-t-butyl ether	1	0		3.64	54.38	50	20	0.1	0.763	0.830	8.76	
1,1-Dichloroethane	1	0		4.00	51.43	50	20	0.2	0.516	0.530	2.85	
trans-1,2-Dichloroethene	1	0		3.65	53.03	50	20	0.1	0.329	0.349	6.06	
Ethyl-t-butyl ether	1	0		4.29	53.18	50	20	0.5	0.814	0.866	6.37	
cis-1,2-Dichloroethene	1	0		4.41	51.75	50	20	0.1	0.525	0.543	3.50	
Bromochloromethane	1	0		4.57	51.30	50	20		0.244	0.251	2.60	
2,2-Dichloropropane	1	0		4.42	55.55	50	20		0.479	0.532	11.10	
Ethyl acetate	1	0		4.43	45.84	50	20		0.389	0.357	8.31	
1,4-Dioxane	1	0		5.49	2231.04	2500	20		0.005	0.005	10.76	
1,1-Dichloropropene	1	0		4.82	51.91	50	20		0.434	0.451	3.83	
Chloroform	1	0		4.60	53.35	50	20	0.2	0.571	0.610	6.70	
Dibromofluoromethane	1	0	S	4.70	32.57	75	**		0.305	0.331	8.58	
Cyclohexane	1	0		4.77	49.33	50	20	0.1	0.474	0.468	1.34	
1,2-Dichloroethane-d4	1	0	S	4.91	29.79	75	**		0.139	0.138	0.71	
1,2-Dichloroethane	1	0		4.95	53.03	50	20	0.1	0.425	0.451	6.06	
2-Butanone	1	0		4.41	45.89	50	20	0.1	0.180	0.135	8.22	
1,1,1-Trichloroethane	1	0		4.73	55.41	50	20	0.1	0.562	0.623	10.82	
Carbon Tetrachloride	1	0		4.83	55.99	50	20	0.1	0.542	0.607	11.98	
Vinyl Acetate	1	0		4.02	50.53	50	20		0.947	0.957	1.05	
Bromodichloromethane	1	0		5.57	55.69	50	20	0.2	0.417	0.465	11.39	
Methylcyclohexane	1	0		5.42	53.08	50	20	0.1	0.527	0.560	6.17	
Dibromomethane	1	0		5.49	58.41	50	20		0.314	0.367	16.82	
1,2-Dichloropropane	1	0		5.43	52.00	50	20	0.1	0.287	0.299	4.00	
Trichloroethene	1	0		5.30	55.25	50	20	0.2	0.420	0.464	10.50	
Benzene	1	0		4.95	52.19	50	20	0.5	1.141	1.190	4.37	
tert-Amyl methyl ether	1	0		4.99	55.11	50	20		0.740	0.816	10.21	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.95	39.79	50	20	0.5	0.631	0.502	20.42	
Methyl methacrylate	1	0		5.45	39.63	50	20	0.5	0.300	0.238	20.74	C1
Dibromochloromethane	1	0		6.42	48.16	50	20	0.1	0.375	0.361	3.68	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50PPB **Data File:** 2M158391.D **Instrument:** GCMS 2

Cont Calibration Date/Time 10/19/2021 12:34:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.71	42.81	50	20		0.151	0.129	14.39	
cis-1,3-Dichloropropene	1	0		5.81	45.31	50	20	0.2	0.428	0.388	9.39	
trans-1,3-Dichloropropene	1	0		6.09	46.88	50	20	0.1	0.398	0.374	6.24	
Ethyl methacrylate	1	0		6.11	41.74	50	20	0.5	0.295	0.246	16.52	
1,1,2-Trichloroethane	1	0		6.20	44.74	50	20	0.1	0.267	0.239	10.51	
1,2-Dibromoethane	1	0		6.49	45.55	50	20	0.1	0.298	0.272	8.91	
1,3-Dichloropropane	1	0		6.29	43.72	50	20		0.428	0.375	12.56	
4-Methyl-2-Pentanone	1	0		5.87	40.62	50	20	0.1	0.320	0.260	18.76	
2-Hexanone	1	0		6.31	41.35	50	20	0.1	0.244	0.202	17.29	
Tetrachloroethene	1	0		6.29	45.21	50	20	0.2	0.396	0.358	9.59	
Toluene-d8	1	0	S	5.95	26.54	75	**		1.042	0.922	11.53	
Toluene	1	0		5.99	42.63	50	20	0.4	0.786	0.670	14.74	
1,1,1,2-Tetrachloroethane	1	0		6.78	46.91	50	20		0.354	0.332	6.19	
Chlorobenzene	1	0		6.75	45.10	50	20	0.5	0.912	0.823	9.80	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	42.76	50	20	0.5	0.685	0.586	14.49	
n-Amyl acetate	1	0		7.11	41.18	50	20	0.5	0.690	0.569	17.64	
Bromoform	1	0		7.20	47.85	50	20	0.1	0.424	0.406	4.29	
Ethylbenzene	1	0		6.79	44.10	50	20	0.1	0.536	0.473	11.79	
1,1,2,2-Tetrachloroethane	1	0		7.42	42.63	50	20	0.1	0.473	0.403	14.73	
Bromofluorobenzene	1	0	S	7.37	31.01	75	**		0.839	0.868	3.36	
Styrene	1	0		7.07	44.54	50	20	0.3	1.287	1.147	10.92	
m&p-Xylenes	1	0		6.85	83.70	100	20	0.1	0.834	0.698	16.30	
o-Xylene	1	0		7.07	42.47	50	20	0.3	0.790	0.671	15.06	
trans-1,4-Dichloro-2-butene	1	0		7.45	39.49	50	20		0.256	0.202	21.03	C1
1,3-Dichlorobenzene	1	0		7.99	43.41	50	20	0.6	1.192	1.035	13.17	
1,4-Dichlorobenzene	1	0		8.04	42.53	50	20	0.5	1.210	1.029	14.93	
1,2-Dichlorobenzene	1	0		8.26	43.08	50	20	0.4	1.113	0.959	13.84	
Isopropylbenzene	1	0		7.26	43.24	50	20	0.1	2.107	1.822	13.52	
Cyclohexanone	1	0		7.34	218.39	250	20		0.024	0.021	12.65	
Camphene	1	0		7.43	41.83	50	20		0.745	0.623	16.35	
1,2,3-Trichloropropane	1	0		7.46	41.80	50	20		0.615	0.514	16.41	
2-Chlorotoluene	1	0		7.56	42.12	50	20		1.197	1.008	15.76	
p-Ethyltoluene	1	0		7.55	41.59	50	20		2.340	1.946	16.82	
4-Chlorotoluene	1	0		7.62	42.23	50	20		1.139	0.962	15.53	
n-Propylbenzene	1	0		7.49	42.33	50	20		2.367	2.004	15.34	
Bromobenzene	1	0		7.46	42.08	50	20		1.142	0.961	15.85	
1,3,5-Trimethylbenzene	1	0		7.58	42.20	50	20		1.593	1.344	15.61	
Butyl methacrylate	1	0		7.59	40.67	50	20	0.5	0.596	0.485	18.66	
t-Butylbenzene	1	0		7.77	42.31	50	20		1.876	1.588	15.38	
1,2,4-Trimethylbenzene	1	0		7.80	41.13	50	20		1.846	1.519	17.73	
sec-Butylbenzene	1	0		7.90	42.95	50	20		2.252	1.934	14.10	
4-Isopropyltoluene	1	0		7.97	40.36	50	20		2.154	1.738	19.29	
n-Butylbenzene	1	0		8.21	42.36	50	20		2.038	1.727	15.29	
p-Diethylbenzene	1	0		8.19	41.94	50	20		1.247	1.046	16.12	
1,2,4,5-Tetramethylbenzene	1	0		8.65	44.58	50	20		1.489	1.327	10.84	
1,2-Dibromo-3-Chloropropane	1	0		8.71	41.90	50	20	0.05	0.170	0.142	16.20	
Camphor	1	0		9.15	386.43	500	20		0.068	0.052	22.71	C1
Hexachlorobutadiene	1	0		9.28	46.15	50	20		0.660	0.609	7.70	
1,2,4-Trichlorobenzene	1	0		9.20	46.82	50	20	0.2	0.888	0.832	6.36	
1,2,3-Trichlorobenzene	1	0		9.50	47.18	50	20		0.793	0.748	5.63	
Naphthalene	1	0		9.36	45.43	50	20		1.692	1.538	9.14	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

1101503 0039

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M157875.D Method: EPA 8260D

Analysis Date/Time: 10/07/21 12:27

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	237313	5.10	209238	6.73	144355	8.02								
Eval File Area Limit:	118656-474626		104619-418476		72178-288710									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									
Data File Sample														
2M157868.D BLK	214573	5.10	223025	6.73	154022	8.02								
2M157871.D CAL @ 0.5PPB	200026	5.10	206822	6.73	142665	8.02								
2M157872.D CAL @ 1PPB	199601	5.10	207243	6.73	143042	8.02								
2M157873.D CAL @ 5PPB	200523	5.10	205633	6.73	147451	8.02								
2M157874.D CAL @ 2PPB	212734	5.10	216815	6.73	152833	8.02								
2M157875.D CAL @ 20PPB	237313	5.10	209238	6.73	144355	8.02								
2M157876.D CAL @ 50PPB	215525	5.10	222698	6.73	170403	8.02								
2M157877.D CAL @ 100PPB	258939	5.10	234816	6.73	181838	8.02								
2M157878.D BLK	98552A	5.10	98678A	6.73	70986A	8.02								
2M157879.D CAL @ 250PPB	219617	5.10	236502	6.73	186631	8.02								
2M157880.D BLK	230740	5.10	236273	6.73	164448	8.02								
2M157881.D CAL @ 500PPB	217872	5.10	240600	6.73	200735	8.02								
2M157883.D BLK	263717	5.10	269313	6.73	169829	8.02								
2M157884.D BLK	217737	5.10	223280	6.73	155273	8.02								
2M157885.D BLK	180352	5.10	183098	6.73	126666	8.02								
2M157886.D STD	223977	5.10	228135	6.73	172106	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101503 0040

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M158391.D Method: EPA 8260D

Analysis Date/Time: 10/19/21 12:34

Lab File ID: CAL @ 50PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	293409	5.10	369127	6.73	283820	8.02								
Eval File Area Limit:	146704-586818		184564-738254		141910-567640									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									

Data File	Sample													
2M158393.D	BLK	286224	5.10	368420	6.73	278029	8.02							
2M158394.D	BLK	271577	5.10	342040	6.73	259771	8.02							
2M158395.D	DAILY BLANK	273359	5.10	350262	6.73	266602	8.02							
2M158396.D	MBS96999	282228	5.10	354648	6.73	275095	8.02							
2M158397.D	26686-006(MS)	232165	5.10	283011	6.73	208563	8.02							
2M158398.D	26686-006(MSD)	239594	5.10	295942	6.73	217536	8.02							
2M158399.D	26686-006	261511	5.10	320918	6.73	218764	8.02							
2M158400.D	BLK	283518	5.10	354902	6.73	273612	8.02							
2M158401.D	AD26692-005	265541	5.10	322204	6.73	209554	8.02							
2M158402.D	AD26701-001(MS)	258589	5.10	306072	6.73	189542	8.02							
2M158403.D	AD26701-001(MSD)	256796	5.10	301825	6.73	184160	8.02							
2M158404.D	AD26701-001	254593	5.10	283441	6.73	149188	8.02							
2M158405.D	BLK	284589	5.10	355135	6.73	272565	8.02							
2M158406.D	AD26692-007	275363	5.10	345288	6.73	242008	8.02							
2M158407.D	AD26669-001	251407	5.10	249841	6.73	113284 A	8.02							
2M158408.D	AD26728-001	230020	5.10	248114	6.73	133879 A	8.02							
2M158409.D	AD26728-002	230979	5.10	184152 A	6.73	72109 A	8.02							
2M158410.D	BLK	277232	5.10	353471	6.73	268864	8.02							
2M158411.D	AD26728-001	240350	5.10	252334	6.73	118319 A	8.02							
2M158412.D	AD26701-001	259995	5.10	301478	6.73	160764	8.02							
2M158413.D	MBS97002	277467	5.10	352076	6.73	269918	8.02							
2M158414.D	MBS97003	280924	5.10	355125	6.73	271372	8.02							
2M158415.D	MBS97004	282905	5.10	361540	6.73	279673	8.02							
2M158416.D	MBS97005	278522	5.10	358015	6.73	277355	8.02							
2M158417.D	BLK	275954	5.10	352137	6.73	269076	8.02							
2M158418.D	AD26728-002	212151	5.10	219535	6.73	104411 A	8.02							
2M158419.D	AD26669-001	261652	5.10	299170	6.73	161959	8.02							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26669-001(5X)
Client Id: SB-004 SS
Data File: 9M109097.D
Analysis Date: 10/26/21 17:49
Date Rec/Extracted: 10/15/21-10/26/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.19	U	**50-32-8**	**Benzo[a]pyrene**	**0.19**	**0.71**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.19	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.19**	**0.98**
122-66-7	1,2-Diphenylhydrazine	0.19	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.19**	**0.47**
123-91-1	1,4-Dioxane	0.094	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.19**	**0.33**
58-90-2	2,3,4,6-Tetrachlorophenol	0.19	U	100-51-6	Benzyl alcohol	0.19	U
95-95-4	2,4,5-Trichlorophenol	0.19	U	111-91-1	bis(2-Chloroethoxy)methan	0.19	U
88-06-2	2,4,6-Trichlorophenol	0.19	U	111-44-4	bis(2-Chloroethyl)ether	0.047	U
120-83-2	2,4-Dichlorophenol	0.070	U	108-60-1	bis(2-chloroisopropyl)ether	0.19	U
105-67-9	2,4-Dimethylphenol	0.091	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.19	U
51-28-5	2,4-Dinitrophenol	0.94	U	85-68-7	Butylbenzylphthalate	0.19	U
121-14-2	2,4-Dinitrotoluene	0.19	U	105-60-2	Caprolactam	0.19	U
606-20-2	2,6-Dinitrotoluene	0.19	U	86-74-8	Carbazole	0.19	U
91-58-7	2-Chloronaphthalene	0.19	U	**218-01-9**	**Chrysene**	**0.19**	**0.71**
95-57-8	2-Chlorophenol	0.19	U	53-70-3	Dibenzo[a,h]anthracene	0.19	U
91-57-6	2-Methylnaphthalene	0.19	U	132-64-9	Dibenzofuran	0.047	U
95-48-7	2-Methylphenol	0.054	U	84-66-2	Diethylphthalate	0.19	U
88-74-4	2-Nitroaniline	0.19	U	131-11-3	Dimethylphthalate	0.19	U
88-75-5	2-Nitrophenol	0.19	U	84-74-2	Di-n-butylphthalate	0.21	U
106-44-5	3&4-Methylphenol	0.055	U	117-84-0	Di-n-octylphthalate	0.19	U
91-94-1	3,3'-Dichlorobenzidine	0.19	U	**206-44-0**	**Fluoranthene**	**0.19**	**1.6**
99-09-2	3-Nitroaniline	0.19	U	86-73-7	Fluorene	0.19	U
534-52-1	4,6-Dinitro-2-methylphenol	0.94	U	118-74-1	Hexachlorobenzene	0.19	U
101-55-3	4-Bromophenyl-phenylether	0.19	U	87-68-3	Hexachlorobutadiene	0.19	U
59-50-7	4-Chloro-3-methylphenol	0.19	U	77-47-4	Hexachlorocyclopentadiene	0.61	U
106-47-8	4-Chloroaniline	0.082	U	67-72-1	Hexachloroethane	0.19	U
7005-72-3	4-Chlorophenyl-phenylether	0.19	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.19**	**0.44**
100-01-6	4-Nitroaniline	0.19	U	78-59-1	Isophorone	0.19	U
100-02-7	4-Nitrophenol	0.19	U	91-20-3	Naphthalene	0.054	U
83-32-9	Acenaphthene	0.19	U	98-95-3	Nitrobenzene	0.19	U
208-96-8	Acenaphthylene	0.19	U	62-75-9	N-Nitrosodimethylamine	0.23	U
98-86-2	Acetophenone	0.19	U	621-64-7	N-Nitroso-di-n-propylamine	0.070	U
120-12-7	**Anthracene**	**0.19**	**0.22**	86-30-6	n-Nitrosodiphenylamine	0.63	U
1912-24-9	Atrazine	0.19	U	87-86-5	Pentachlorophenol	0.94	U
100-52-7	Benzaldehyde	2.0	U	**85-01-8**	**Phenanthrene**	**0.19**	**0.86**
92-87-5	Benzidine	0.33	U	108-95-2	Phenol	0.19	U
56-55-3	**Benzo[a]anthracene**	**0.19**	**0.84**	**129-00-0**	**Pyrene**	**0.19**	**1.3**

Worksheet #: 614871

Total Target Concentration 8.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

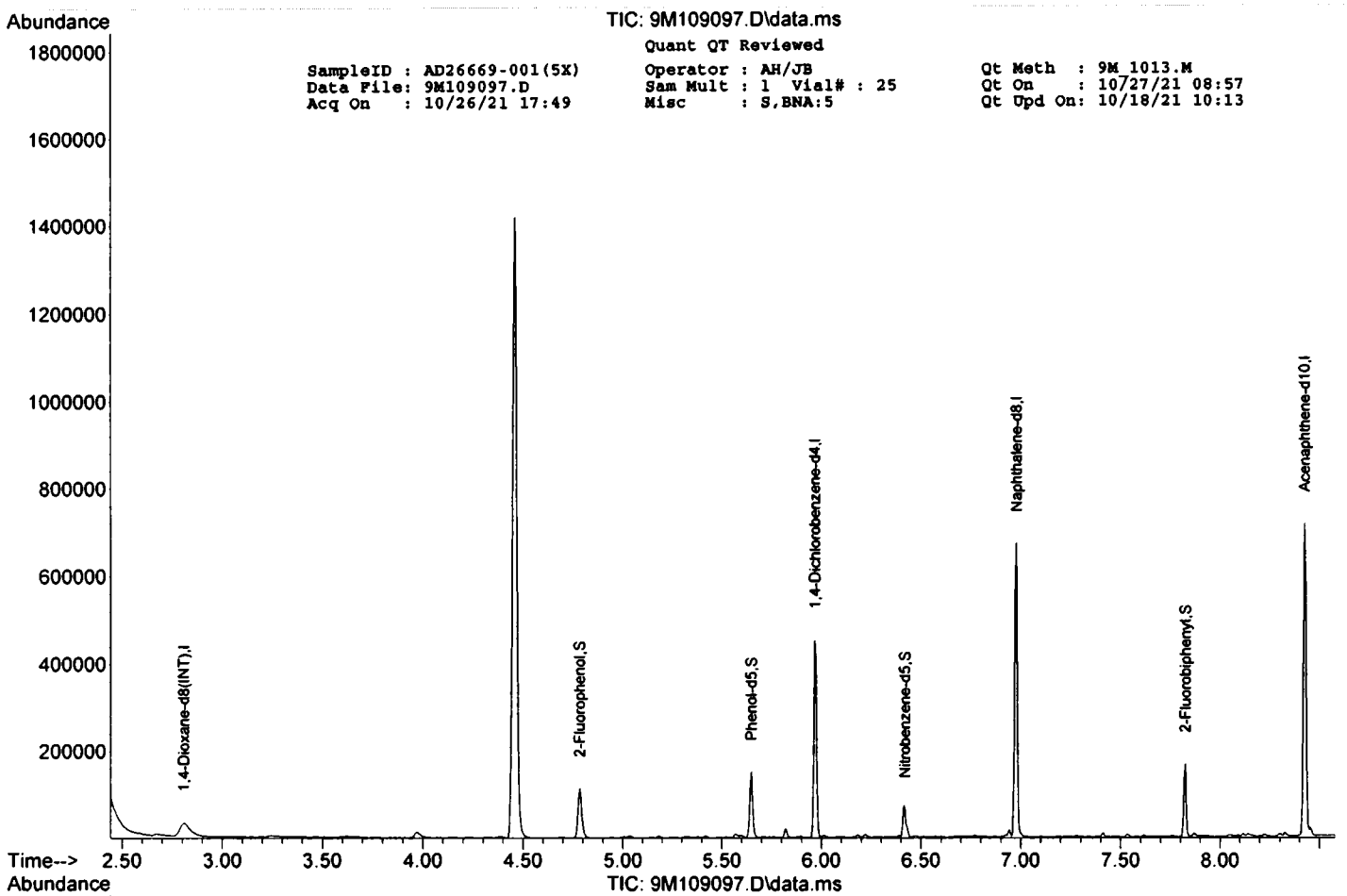
Quantitation Report (QT Reviewed)

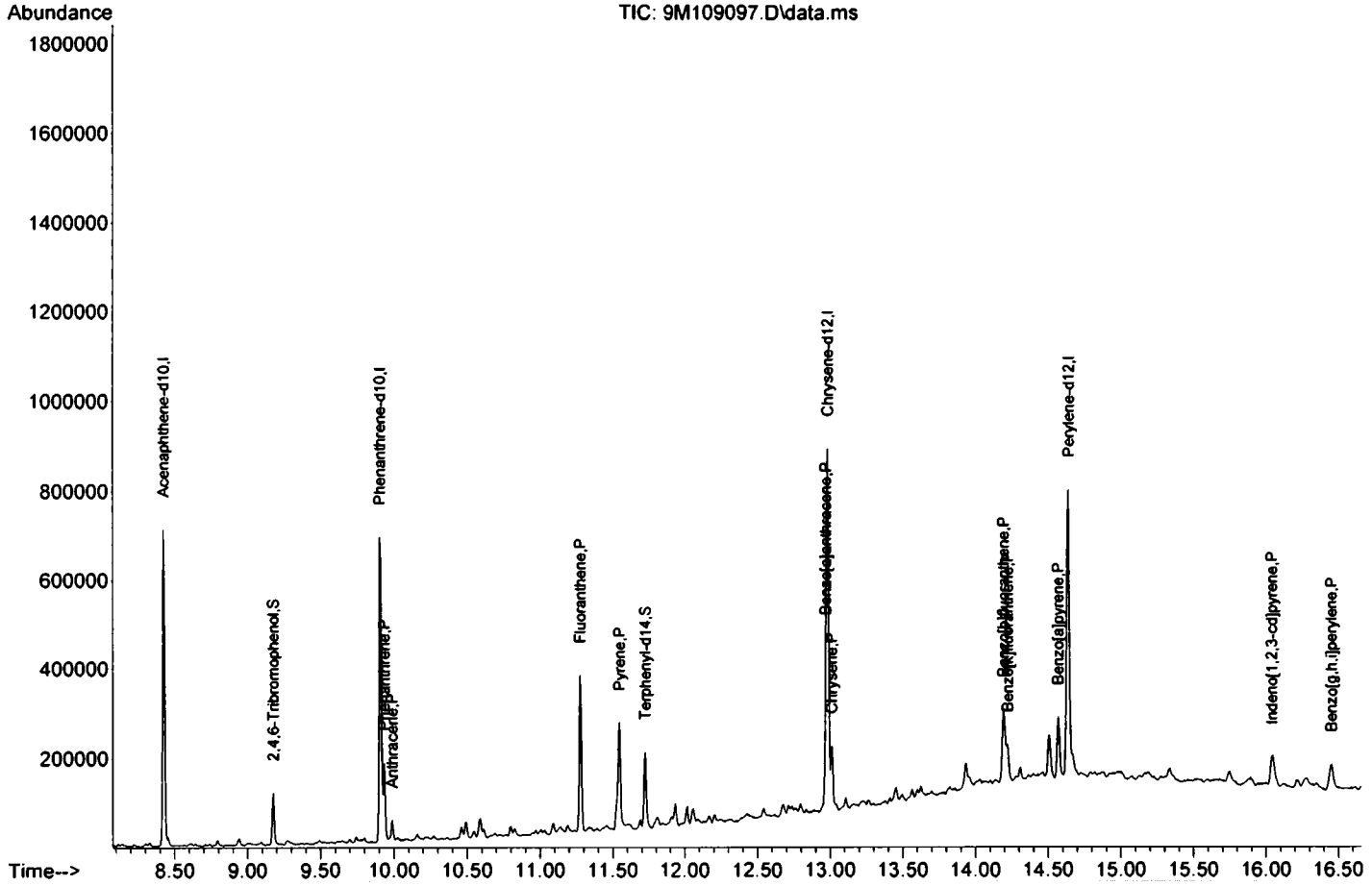
SampleID : AD26669-001(5X) Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109097.D Sam Mult : 1 Vial# : 25 Qt On : 10/27/21 08:57
Acq On : 10/26/21 17:49 Misc : S,BNA:5 Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-26-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.807	96	42233	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.966	152	74317	40.00	ng	0.00
31) Naphthalene-d8	6.978	136	290110	40.00	ng	0.00
50) Acenaphthene-d10	8.425	164	145980	40.00	ng	0.00
77) Phenanthrene-d10	9.907	188	277272	40.00	ng	0.00
91) Chrysene-d12	12.983	240	282264	40.00	ng	0.00
103) Perylene-d12	14.642	264	325552	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.784	112	40754	15.50	ng	0.01
Spiked Amount 100.000			Recovery = 15.50%			
16) Phenol-d5	5.648	99	52964	16.87	ng	0.00
Spiked Amount 100.000			Recovery = 16.87%			
32) Nitrobenzene-d5	6.419	128	10191	8.99	ng	0.00
Spiked Amount 50.000			Recovery = 17.98%			
55) 2-Fluorobiphenyl	7.825	172	49786	9.02	ng	0.00
Spiked Amount 50.000			Recovery = 18.04%			
80) 2,4,6-Tribromophenol	9.178	330	17159	19.50	ng	0.00
Spiked Amount 100.000			Recovery = 19.50%			
94) Terphenyl-d14	11.724	244	51794	10.47	ng	0.00
Spiked Amount 50.000			Recovery = 20.94%			
Target Compounds						Qvalue
86) Phenanthrene	9.936	178	71413	9.2149	ng	99
87) Anthracene	9.989	178	18571m	2.3932	ng	
90) Fluoranthene	11.277	202	143496	17.1061	ng	95
92) Pyrene	11.548	202	118908	14.2000	ng	89
100) Benzo[a]anthracene	12.971	228	75927m	8.9249	ng	
101) Chrysene	13.013	228	64131	7.5671	ng	96
105) Benzo[b]fluoranthene	14.195	252	93522m	10.4495	ng	
106) Benzo[k]fluoranthene	14.224	252	32672m	3.5382	ng	
107) Benzo[a]pyrene	14.571	252	65954	7.5767	ng	91
108) Indeno[1,2,3-cd]pyrene	16.042	276	48263	4.6597	ng	72
110) Benzo[g,h,i]perylene	16.454	276	43147	5.0048	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M109097.D\data.ms
Quant QT Reviewed
SampleID : AD26669-001(5X)
Data File: 9M109097.D
Acq On : 10/26/21 17:49
Operator : AH/JB
Sam Mult : 1 Vial# : 25
Misc : S,BNA:5
Qt Meth : 9M_1013.M
Qt On : 10/27/21 08:57
Qt Upd On: 10/18/21 10:13
1.4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->


Abundance
TIC: 9M109097.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95380
Client Id:
Data File: 9M109090.D
Analysis Date: 10/26/21 15:07
Date Rec/Extracted: NA-10/26/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 616366

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed)

SampleID : SMB95380 Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109090.D Sam Mult : 1 Vial# : 18 Qt On : 10/26/21 15:43
Acq On : 10/26/21 15:07 Misc : S,BNA Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-26-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.778	96	36617	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.966	152	59534	40.00	ng	0.00
31) Naphthalene-d8	6.972	136	243368	40.00	ng	0.00
50) Acenaphthene-d10	8.425	164	125765	40.00	ng	0.00
77) Phenanthrene-d10	9.907	188	241042	40.00	ng	0.00
91) Chrysene-d12	12.983	240	239758	40.00	ng	0.00
103) Perylene-d12	14.642	264	294276	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.784	112	186719	81.89	ng	0.01
Spiked Amount 100.000			Recovery = 81.89%			
16) Phenol-d5	5.649	99	240998	88.54	ng	0.00
Spiked Amount 100.000			Recovery = 88.54%			
32) Nitrobenzene-d5	6.413	128	46497	48.88	ng	0.00
Spiked Amount 50.000			Recovery = 97.76%			
55) 2-Fluorobiphenyl	7.825	172	220281	46.31	ng	0.00
Spiked Amount 50.000			Recovery = 92.62%			
80) 2,4,6-Tribromophenol	9.178	330	96574	108.27	ng	0.00
Spiked Amount 100.000			Recovery = 108.27%			
94) Terphenyl-d14	11.725	244	238162	56.66	ng	0.00
Spiked Amount 50.000			Recovery = 113.32%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

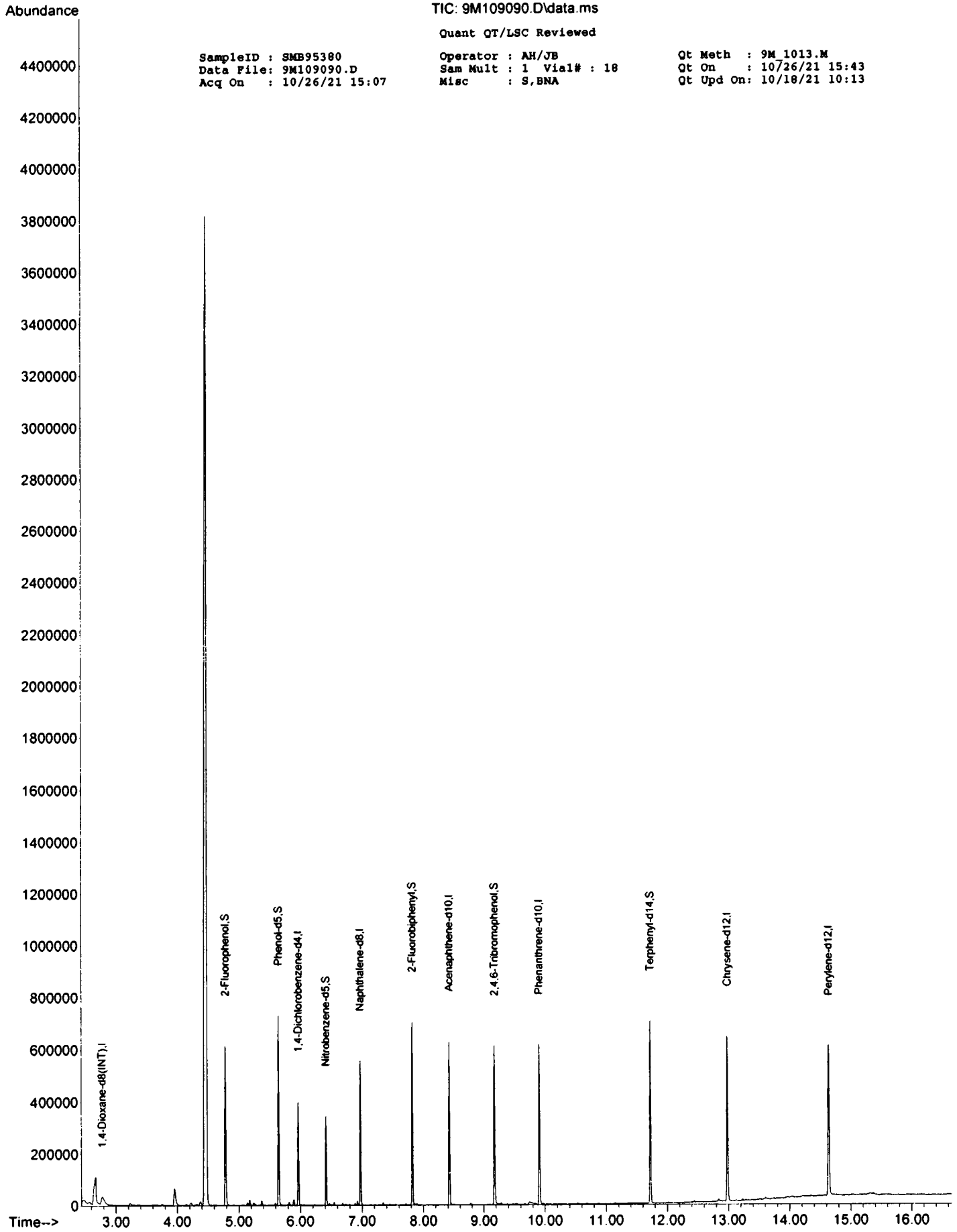
TIC: 9M109090.D\data.ms

Quant QT/LSC Reviewed

SampleID : SMB95380
Data File: 9M109090.D
Acq On : 10/26/21 15:07

Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : S,BNA

Qt Meth : 9M_1013.M
Qt On : 10/26/21 15:43
Qt Upd On: 10/18/21 10:13



FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M109090.D	SMB95380	S	10/26/21 15:07	1		82	89	98	93	108	113
9M109097.D	AD26669-001(5X)	S	10/26/21 17:49	5		77	84	90	90	98	105
5M118284.D	SMB95380(MS)	S	10/26/21 14:51	1		83	82	99	105	107	116
7M117418.D	AD26635-002	S	10/26/21 16:14	1		77	78	80	83	88	97
7M117419.D	AD26635-002(MS)	S	10/26/21 16:38	1		79	81	86	89	100	95
7M117420.D	AD26635-002(MSD)	S	10/26/21 17:02	1		79	81	87	90	104	99

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M118284.D	SMB95380(MS)	10/26/2021 2:51:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.6437	0	50	35	25	150
Pyridine	1	32.3927	0	50	65	1	150
N-Nitrosodimethylamine	1	34.6286	0	50	69	50	130
Benzaldehyde	1	29.27	0	50	59	20	220
Aniline	1	21.0046	0	50	42	20	150
Pentachloroethane	1	32.7659	0	50	66	50	130
bis(2-Chloroethyl)ether	1	35.0787	0	50	70	50	130
Phenol	1	72.1389	0	100	72	20	150
2-Chlorophenol	1	77.5929	0	100	78	50	130
N-Decane	1	27.0269	0	50	54	20	130
1,3-Dichlorobenzene	1	33.2737	0	50	67	60	130
1,4-Dichlorobenzene	1	40.5162	0	50	81	60	130
1,2-Dichlorobenzene	1	39.5125	0	50	79	50	130
Benzyl alcohol	1	44.8776	0	50	90	20	130
bis(2-chloroisopropyl)ether	1	36.1357	0	50	72	40	130
2-Methylphenol	1	94.2147	0	100	94	50	130
Acetophenone	1	45.5207	0	50	91	50	130
Hexachloroethane	1	40.0046	0	50	80	50	130
N-Nitroso-di-n-propylamine	1	44.1621	0	50	88	40	130
3&4-Methylphenol	1	101.7668	0	100	102	70	130
Nitrobenzene	1	43.6408	0	50	87	70	130
Isophorone	1	39.537	0	50	79	60	130
2-Nitrophenol	1	91.6947	0	100	92	70	130
2,4-Dimethylphenol	1	96.0281	0	100	96	40	130
Benzoic Acid	1	69.5623	0	100	70	20	130
bis(2-Chloroethoxy)methane	1	42.4596	0	50	85	60	130
2,4-Dichlorophenol	1	99.24	0	100	99	70	130
1,2,4-Trichlorobenzene	1	43.1248	0	50	86	50	130
Naphthalene	1	40.0561	0	50	80	50	130
4-Chloroaniline	1	30.4229	0	50	61	10	150
Hexachlorobutadiene	1	41.0795	0	50	82	60	130
Caprolactam	1	50.4324	0	50	101	50	130
4-Chloro-3-methylphenol	1	101.9962	0	100	102	50	130
2-Methylnaphthalene	1	43.5719	0	50	87	70	130
1-Methylnaphthalene	1	42.9993	0	50	86	70	130
1,1'-Biphenyl	1	41.0376	0	50	82	60	130
1,2,4,5-Tetrachlorobenzene	1	42.1637	0	50	84	70	130
Hexachlorocyclopentadiene	1	42.8074	0	50	86	20	160
2,4,6-Trichlorophenol	1	101.8728	0	100	102	70	130
2,4,5-Trichlorophenol	1	101.2444	0	100	101	70	130
2-Chloronaphthalene	1	42.3745	0	50	85	70	130
1,4-Dimethylnaphthalene	1	42.0255	0	50	84	70	130
Diphenyl Ether	1	42.583	0	50	85	70	130
2-Nitroaniline	1	46.93	0	50	94	50	130
Coumarin	1	42.4439	0	50	85	70	130
Acenaphthylene	1	40.7121	0	50	81	70	130
Dimethylphthalate	1	43.763	0	50	88	70	130
2,6-Dinitrotoluene	1	42.2008	0	50	84	70	130
Acenaphthene	1	42.081	0	50	84	50	130
3-Nitroaniline	1	33.145	0	50	66	10	130
2,4-Dinitrophenol	1	63.7932	0	100	64	20	150
Dibenzofuran	1	44.8649	0	50	90	70	130
2,4-Dinitrotoluene	1	43.6704	0	50	87	40	130
4-Nitrophenol	1	90.6695	0	100	91	20	150
2,3,4,6-Tetrachlorophenol	1	88.2909	0	100	88	70	130
Fluorene	1	42.6375	0	50	85	50	130
4-Chlorophenyl-phenylether	1	44.5655	0	50	89	70	130
Diethylphthalate	1	43.6432	0	50	87	70	130
4-Nitroaniline	1	43.9452	0	50	88	50	130
Atrazine	1	48.0727	0	50	96	50	130
4,6-Dinitro-2-methylphenol	1	84.7154	0	100	85	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.5531	0	50	71	50	130
1,2-Diphenylhydrazine	1	45.9766	0	50	92	70	130
4-Bromophenyl-phenylether	1	44.3459	0	50	89	70	130
Hexachlorobenzene	1	42.6175	0	50	85	70	130
N-Octadecane	1	36.948	0	50	74	70	130
Pentachlorophenol	1	104.9465	0	100	105	40	130
Phenanthrene	1	42.6367	0	50	85	70	130
Anthracene	1	41.8252	0	50	84	70	130
Carbazole	1	41.0627	0	50	82	70	130
Di-n-butylphthalate	1	44.6924	0	50	89	70	130
Fluoranthene	1	44.3496	0	50	89	70	130
Pyrene	1	42.6844	0	50	85	50	130
Benzidine	1	2.5434	0	50	5.1	0	130
Butylbenzylphthalate	1	45.2836	0	50	91	50	130
3,3'-Dichlorobenzidine	1	26.883	0	50	54	10	130
Benzo[a]anthracene	1	40.8997	0	50	82	70	130
Chrysene	1	45.4894	0	50	91	60	130
bis(2-Ethylhexyl)phthalate	1	46.2813	0	50	93	70	130
Di-n-octylphthalate	1	44.2867	0	50	89	70	130
Benzo[b]fluoranthene	1	45.6722	0	50	91	70	130
Benzo[k]fluoranthene	1	42.1394	0	50	84	70	130
Benzo[a]pyrene	1	43.6087	0	50	87	70	130
Indeno[1,2,3-cd]pyrene	1	47.304	0	50	95	70	130
Dibenzo[a,h]anthracene	1	43.2611	0	50	87	60	130
Benzo[g,h,i]perylene	1	44.0067	0	50	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M117419.D	AD26635-002(MS)	10/26/2021 4:38:00 PM
Non Spike(If applicable):	7M117418.D	AD26635-002	10/26/2021 4:14:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	13.866	0	50	28	25	150
Pyridine	1	28.4946	0	50	57	1	150
N-Nitrosodimethylamine	1	31.5263	0	50	63	50	130
Benzaldehyde	1	30.5604	0	50	61	20	220
Aniline	1	21.9114	0	50	44	20	150
Pentachloroethane	1	33.38	0	50	67	50	130
bis(2-Chloroethyl)ether	1	32.5374	0	50	65	50	130
N-Decane	1	25.843	0	50	52	20	130
1,3-Dichlorobenzene	1	33.0744	0	50	66	60	130
1,4-Dichlorobenzene	1	34.7238	0	50	69	60	130
1,2-Dichlorobenzene	1	34.8463	0	50	70	50	130
Benzyl alcohol	1	37.4673	0	50	75	20	130
bis(2-chloroisopropyl)ether	1	29.6016	0	50	59	40	130
Acetophenone	1	35.7375	0	50	71	50	130
Hexachloroethane	1	33.9968	0	50	68	50	130
N-Nitroso-di-n-propylamine	1	32.0484	0	50	64	40	130
Nitrobenzene	1	37.2652	0	50	75	70	130
Isophorone	1	33.2013	0	50	66	60	130
Benzoic Acid	1	61.7319	0	100	62	20	130
bis(2-Chloroethoxy)methane	1	35.8919	0	50	72	60	130
1,2,4-Trichlorobenzene	1	38.5383	0	50	77	50	130
Naphthalene	1	34.4033	0	50	69	50	130
4-Chloroaniline	1	15.7007	0	50	31	10	150
Hexachlorobutadiene	1	36.2106	0	50	72	60	130
Caprolactam	1	37.5953	0	50	75	50	130
2-Methylnaphthalene	1	37.9687	0	50	76	70	130
1-Methylnaphthalene	1	39.3865	0	50	79	70	130
1,1'-Biphenyl	1	37.5407	0	50	75	60	130
1,2,4,5-Tetrachlorobenzene	1	39.23	0	50	78	70	130
Hexachlorocyclopentadiene	1	34.4817	0	50	69	20	160
2-Chloronaphthalene	1	38.597	0	50	77	70	130
1,4-Dimethylnaphthalene	1	37.7698	0	50	76	70	130
Diphenyl Ether	1	39.4693	0	50	79	70	130
2-Nitroaniline	1	39.93	0	50	80	50	130
Coumarin	1	38.7332	0	50	77	70	130
Acenaphthylene	1	37.1013	0	50	74	70	130
Dimethylphthalate	1	38.3542	0	50	77	70	130
2,6-Dinitrotoluene	1	38.3392	0	50	77	70	130
Acenaphthene	1	37.64	0	50	75	50	130
3-Nitroaniline	1	28.2448	0	50	56*	70	130
Dibenzofuran	1	38.8865	0	50	78	70	130
2,4-Dinitrotoluene	1	38.6392	0	50	77	40	130
Fluorene	1	36.7961	0	50	74	50	130
4-Chlorophenyl-phenylether	1	37.5274	0	50	75	70	130
Diethylphthalate	1	36.3594	0	50	73	70	130
4-Nitroaniline	1	36.7444	0	50	73	50	130
Atrazine	1	38.6415	0	50	77	50	130
n-Nitrosodiphenylamine	1	33.4068	0	50	67	50	130
1,2-Diphenylhydrazine	1	40.1645	0	50	80	70	130
4-Bromophenyl-phenylether	1	39.947	0	50	80	70	130
Hexachlorobenzene	1	37.9234	0	50	76	70	130
N-Octadecane	1	37.2748	3.2746	50	68*	70	130
Phenanthrene	1	38.846	0	50	78	70	130
Anthracene	1	37.9914	0	50	76	70	130
Carbazole	1	37.5382	0	50	75	70	130
Di-n-butylphthalate	1	38.3007	0	50	77	70	130
Fluoranthene	1	38.0666	0	50	76	70	130
Pyrene	1	36.9861	0	50	74	50	130
Benzidine	1	2.5035	0	50	5	0	130
Butylbenzylphthalate	1	38.4931	0	50	77	50	130
3,3'-Dichlorobenzidine	1	23.6177	0	50	47	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	35.8768	0	50	72	70	130
Chrysene	1	39.3943	0	50	79	60	130
bis(2-Ethylhexyl)phthalate	1	40.1637	0	50	80	70	130
Di-n-octylphthalate	1	40.3705	0	50	81	70	130
Benzo[b]fluoranthene	1	38.9692	0	50	78	70	130
Benzo[k]fluoranthene	1	39.6963	0	50	79	70	130
Benzo[a]pyrene	1	37.3446	0	50	75	70	130
Indeno[1,2,3-cd]pyrene	1	39.1699	0	50	78	70	130
Dibenzo[a,h]anthracene	1	38.4907	0	50	77	60	130
Benzo[g,h,i]perylene	1	38.2152	0	50	76	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M117420.D	AD26635-002(MSD)	10/26/2021 5:02:00 PM
Non Spike(If applicable):	7M117418.D	AD26635-002	10/26/2021 4:14:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	14.2659	0	50	29	25	150
Pyridine	1	27.3396	0	50	55	1	150
N-Nitrosodimethylamine	1	32.6186	0	50	65	50	130
Benzaldehyde	1	30.2958	0	50	61	20	220
Aniline	1	24.6292	0	50	49	20	150
Pentachloroethane	1	32.7045	0	50	65	50	130
bis(2-Chloroethyl)ether	1	33.6632	0	50	67	50	130
N-Decane	1	25.7177	0	50	51	20	130
1,3-Dichlorobenzene	1	34.0348	0	50	68	60	130
1,4-Dichlorobenzene	1	35.3987	0	50	71	60	130
1,2-Dichlorobenzene	1	35.158	0	50	70	50	130
Benzyl alcohol	1	38.4574	0	50	77	20	130
bis(2-chloroisopropyl)ether	1	30.024	0	50	60	40	130
Acetophenone	1	34.7842	0	50	70	50	130
Hexachloroethane	1	34.6448	0	50	69	50	130
N-Nitroso-di-n-propylamine	1	32.3917	0	50	65	40	130
Nitrobenzene	1	37.8922	0	50	76	70	130
Isophorone	1	34.2233	0	50	68	60	130
Benzoic Acid	1	57.6071	0	100	58	20	130
bis(2-Chloroethoxy)methane	1	37.0423	0	50	74	60	130
1,2,4-Trichlorobenzene	1	39.4384	0	50	79	50	130
Naphthalene	1	35.6603	0	50	71	50	130
4-Chloroaniline	1	17.9854	0	50	36	10	150
Hexachlorobutadiene	1	37.1455	0	50	74	60	130
Caprolactam	1	37.2123	0	50	74	50	130
2-Methylnaphthalene	1	39.1945	0	50	78	70	130
1-Methylnaphthalene	1	37.9254	0	50	76	70	130
1,1'-Biphenyl	1	36.9473	0	50	74	60	130
1,2,4,5-Tetrachlorobenzene	1	38.2194	0	50	76	70	130
Hexachlorocyclopentadiene	1	36.3578	0	50	73	20	160
2-Chloronaphthalene	1	39.6386	0	50	79	70	130
1,4-Dimethylnaphthalene	1	35.9349	0	50	72	70	130
Diphenyl Ether	1	38.8802	0	50	78	70	130
2-Nitroaniline	1	41.6935	0	50	83	50	130
Coumarin	1	38.3175	0	50	77	70	130
Acenaphthylene	1	37.9872	0	50	76	70	130
Dimethylphthalate	1	39.8102	0	50	80	70	130
2,6-Dinitrotoluene	1	39.2257	0	50	78	70	130
Acenaphthene	1	38.9154	0	50	78	50	130
3-Nitroaniline	1	32.2331	0	50	64*	70	130
Dibenzofuran	1	39.9622	0	50	80	70	130
2,4-Dinitrotoluene	1	39.7075	0	50	79	40	130
Fluorene	1	37.5012	0	50	75	50	130
4-Chlorophenyl-phenylether	1	39.0327	0	50	78	70	130
Diethylphthalate	1	37.6494	0	50	75	70	130
4-Nitroaniline	1	38.1332	0	50	76	50	130
Atrazine	1	38.0981	0	50	76	50	130
n-Nitrosodiphenylamine	1	35.0491	0	50	70	50	130
1,2-Diphenylhydrazine	1	41.9759	0	50	84	70	130
4-Bromophenyl-phenylether	1	41.8004	0	50	84	70	130
Hexachlorobenzene	1	39.5227	0	50	79	70	130
N-Octadecane	1	37.6119	3.2746	50	69*	70	130
Phenanthrene	1	40.2709	0	50	81	70	130
Anthracene	1	39.3505	0	50	79	70	130
Carbazole	1	37.7017	0	50	75	70	130
Di-n-butylphthalate	1	40.9559	0	50	82	70	130
Fluoranthene	1	39.3948	0	50	79	70	130
Pyrene	1	39.4983	0	50	79	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	41.1443	0	50	82	50	130
3,3'-Dichlorobenzidine	1	28.6123	0	50	57	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	37.9183	0	50	76	70	130
Chrysene	1	41.8768	0	50	84	60	130
bis(2-Ethylhexyl)phthalate	1	42.7538	0	50	86	70	130
Di-n-octylphthalate	1	42.5127	0	50	85	70	130
Benzo[b]fluoranthene	1	42.9746	0	50	86	70	130
Benzo[k]fluoranthene	1	43.2521	0	50	87	70	130
Benzo[a]pyrene	1	38.8565	0	50	78	70	130
Indeno[1,2,3-cd]pyrene	1	41.987	0	50	84	70	130
Dibenzo[a,h]anthracene	1	41.307	0	50	83	60	130
Benzo[g,h,i]perylene	1	40.6348	0	50	81	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M117420.D	AD26635-002(MSD)	10/26/2021 5:02:00 PM
Duplicate(If applicable):	7M117419.D	AD26635-002(MS)	10/26/2021 4:38:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	14.2659	13.866	2.8	30
Pyridine	1	27.3396	28.4946	4.1	30
N-Nitrosodimethylamine	1	32.6186	31.5263	3.4	30
Benzaldehyde	1	30.2958	30.5604	0.87	30
Aniline	1	24.6292	21.9114	12	30
Pentachloroethane	1	32.7045	33.38	2	30
bis(2-Chloroethyl)ether	1	33.6632	32.5374	3.4	30
N-Decane	1	25.7177	25.843	0.49	30
1,3-Dichlorobenzene	1	34.0348	33.0744	2.9	30
1,4-Dichlorobenzene	1	35.3987	34.7238	1.9	40
1,2-Dichlorobenzene	1	35.158	34.8463	0.89	30
Benzyl alcohol	1	38.4574	37.4673	2.6	30
bis(2-chloroisopropyl)ether	1	30.024	29.6016	1.4	30
Acetophenone	1	34.7842	35.7375	2.7	30
Hexachloroethane	1	34.6448	33.9968	1.9	30
N-Nitroso-di-n-propylamine	1	32.3917	32.0484	1.1	40
Nitrobenzene	1	37.8922	37.2652	1.7	30
Isophorone	1	34.2233	33.2013	3	30
Benzoic Acid	1	57.6071	61.7319	6.9	30
bis(2-Chloroethoxy)methane	1	37.0423	35.8919	3.2	30
1,2,4-Trichlorobenzene	1	39.4384	38.5383	2.3	40
Naphthalene	1	35.6603	34.4033	3.6	40
4-Chloroaniline	1	17.9854	15.7007	14	30
Hexachlorobutadiene	1	37.1455	36.2106	2.5	30
Caprolactam	1	37.2123	37.5953	1	30
2-Methylnaphthalene	1	39.1945	37.9687	3.2	30
1-Methylnaphthalene	1	37.9254	39.3865	3.8	30
1,1'-Biphenyl	1	36.9473	37.5407	1.6	30
1,2,4,5-Tetrachlorobenzene	1	38.2194	39.23	2.6	30
Hexachlorocyclopentadiene	1	36.3578	34.4817	5.3	30
2-Chloronaphthalene	1	39.6386	38.597	2.7	30
1,4-Dimethylnaphthalene	1	35.9349	37.7698	5	30
Diphenyl Ether	1	38.8802	39.4693	1.5	30
2-Nitroaniline	1	41.6935	39.93	4.3	30
Coumarin	1	38.3175	38.7332	1.1	30
Acenaphthylene	1	37.9872	37.1013	2.4	30
Dimethylphthalate	1	39.8102	38.3542	3.7	30
2,6-Dinitrotoluene	1	39.2257	38.3392	2.3	30
Acenaphthene	1	38.9154	37.64	3.3	40
3-Nitroaniline	1	32.2331	28.2448	13	30
Dibenzofuran	1	39.9622	38.8865	2.7	30
2,4-Dinitrotoluene	1	39.7075	38.6392	2.7	40
Fluorene	1	37.5012	36.7961	1.9	40
4-Chlorophenyl-phenylether	1	39.0327	37.5274	3.9	30
Diethylphthalate	1	37.6494	36.3594	3.5	30
4-Nitroaniline	1	38.1332	36.7444	3.7	30
Atrazine	1	38.0981	38.6415	1.4	30
n-Nitrosodiphenylamine	1	35.0491	33.4068	4.8	30
1,2-Diphenylhydrazine	1	41.9759	40.1645	4.4	30
4-Bromophenyl-phenylether	1	41.8004	39.947	4.5	30
Hexachlorobenzene	1	39.5227	37.9234	4.1	30
N-Octadecane	1	37.6119	37.2748	0.9	30
Phenanthrene	1	40.2709	38.846	3.6	30
Anthracene	1	39.3505	37.9914	3.5	30
Carbazole	1	37.7017	37.5382	0.43	30
Di-n-butylphthalate	1	40.9559	38.3007	6.7	30
Fluoranthene	1	39.3948	38.0666	3.4	30
Pyrene	1	39.4983	36.9861	6.6	40
Benzidine	1	0	2.5035	200 *	30
Butylbenzylphthalate	1	41.1443	38.4931	6.7	40
3,3'-Dichlorobenzidine	1	28.6123	23.6177	19	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	37.9183	35.8768	5.5	30
Chrysene	1	41.8768	39.3943	6.1	30
bis(2-Ethylhexyl)phthalate	1	42.7538	40.1637	6.2	30
Di-n-octylphthalate	1	42.5127	40.3705	5.2	30
Benzo[b]fluoranthene	1	42.9746	38.9692	9.8	30
Benzo[k]fluoranthene	1	43.2521	39.6963	8.6	30
Benzo[a]pyrene	1	38.8565	37.3446	4	30
Indeno[1,2,3-cd]pyrene	1	41.987	39.1699	6.9	30
Dibenzo[a,h]anthracene	1	41.307	38.4907	7.1	30
Benzo[g,h,i]perylene	1	40.6348	38.2152	6.1	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95380
Blank Data File: 9M109090.D
Matrix: Soil

Blank Analysis Date: 10/26/21 15:07
Blank Extraction Date: 10/26/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD26669-001(5X)	9M109097.D	10/26/21 17:49
AD26635-002(MSD	7M117420.D	10/26/21 17:02
AD26635-002(MS)	7M117419.D	10/26/21 16:38
AD26635-002	7M117418.D	10/26/21 16:14
SMB95380(MS)	5M118284.D	10/26/21 14:51

Form 5

Tune Name: CAL DFTPP **Data File:** 9M108708.D
Instrument: GCMS 9 **Analysis Date:** 10/13/21 08:48
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.178 to 10.183 min

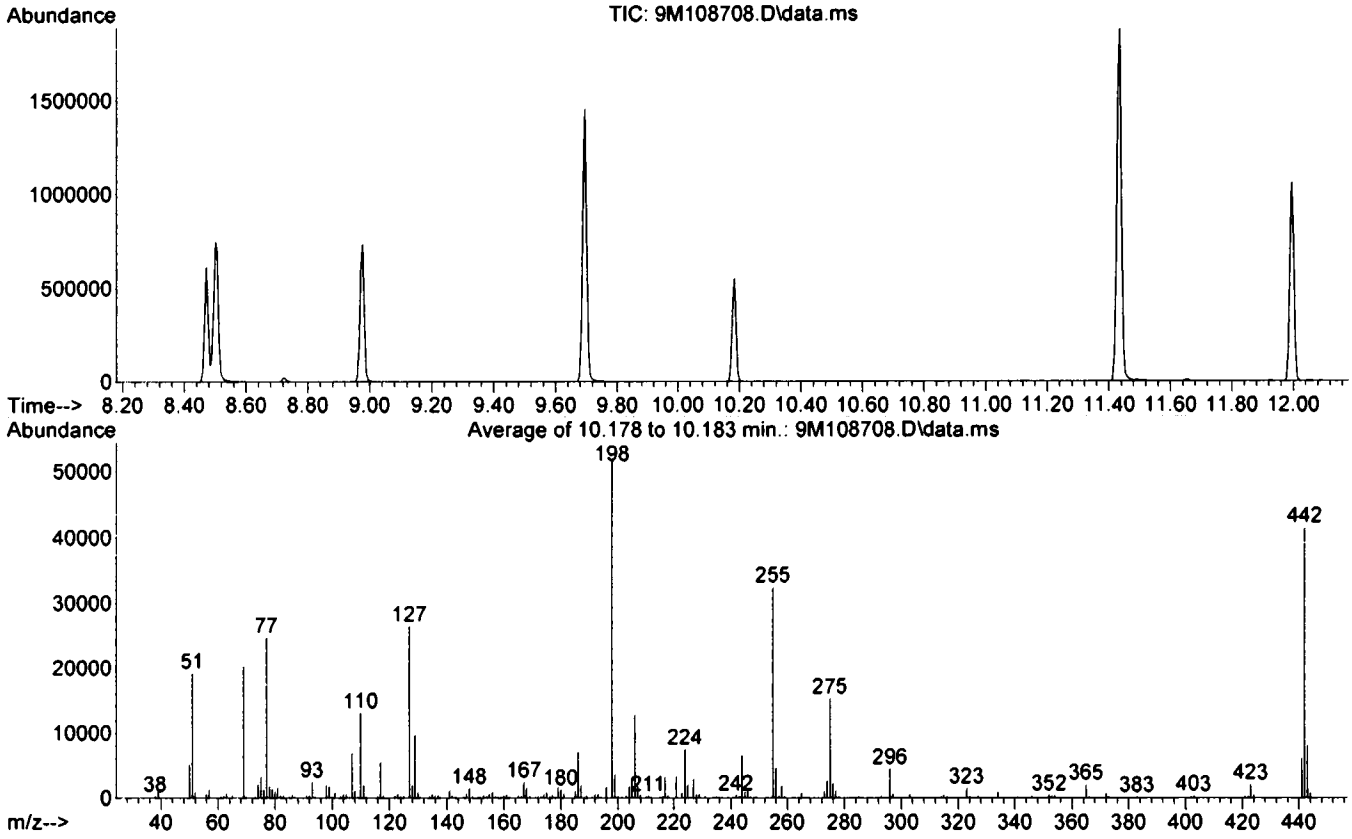
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

Data File	Sample Number	Analysis Date:
9M108709.D	CAL BNA@10PPM	10/13/21 09:10
9M108710.D	CAL BNA@2PPM	10/13/21 09:41
9M108711.D	CAL BNA@196PP	10/13/21 10:04
9M108712.D	CAL BNA@160PP	10/13/21 10:27
9M108713.D	CAL BNA@120PP	10/13/21 10:50
9M108714.D	CAL BNA@80PPM	10/13/21 11:13
9M108715.D	CAL BNA@20PPM	10/13/21 11:35
9M108716.D	CAL BNA@0.5PP	10/13/21 11:58
9M108717.D	CAL BNA@50PPM	10/13/21 12:21
9M108718.D	BNA@50PPM	10/13/21 12:44
9M108719.D	ICV BNA@50PPM	10/13/21 13:15
9M108720.D	SMB95218	10/13/21 13:38
9M108721.D	AD26497-002	10/13/21 14:01
9M108722.D	AD26497-003	10/13/21 14:24
9M108723.D	AD26497-004	10/13/21 14:47
9M108724.D	AD26497-005	10/13/21 15:10
9M108725.D	AD26383-001(30X)	10/13/21 15:34
9M108726.D	OMB95201	10/13/21 15:57
9M108727.D	SMB95218(MS)	10/13/21 16:20
9M108728.D	SMB95225	10/13/21 16:43
9M108729.D	SMB95225(MS)	10/13/21 17:06
9M108730.D	AD26503-007	10/13/21 17:29
9M108731.D	AD26503-002	10/13/21 17:52
9M108732.D	AD26503-015	10/13/21 18:15
9M108733.D	AD26503-009	10/13/21 18:38
9M108734.D	AD26503-005	10/13/21 19:01
9M108735.D	AD26503-001	10/13/21 19:24
9M108736.D	AD26404-001	10/13/21 19:47
9M108737.D	AD26404-001(MS)	10/13/21 20:10
9M108738.D	AD26404-001(MSD	10/13/21 20:33

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-13-21\
Data File : 9M108708.D
Acq On : 13 Oct 2021 8:48
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1012.M
Title : @GCMS_9,mg,625,8270
Last Update : Tue Oct 12 13:44:04 2021



Spectrum Information: Average of 10.178 to 10.183 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 5M118178.D
Instrument: GCMS 5 **Analysis Date:** 10/13/21 09:17
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.957 to 9.962 min

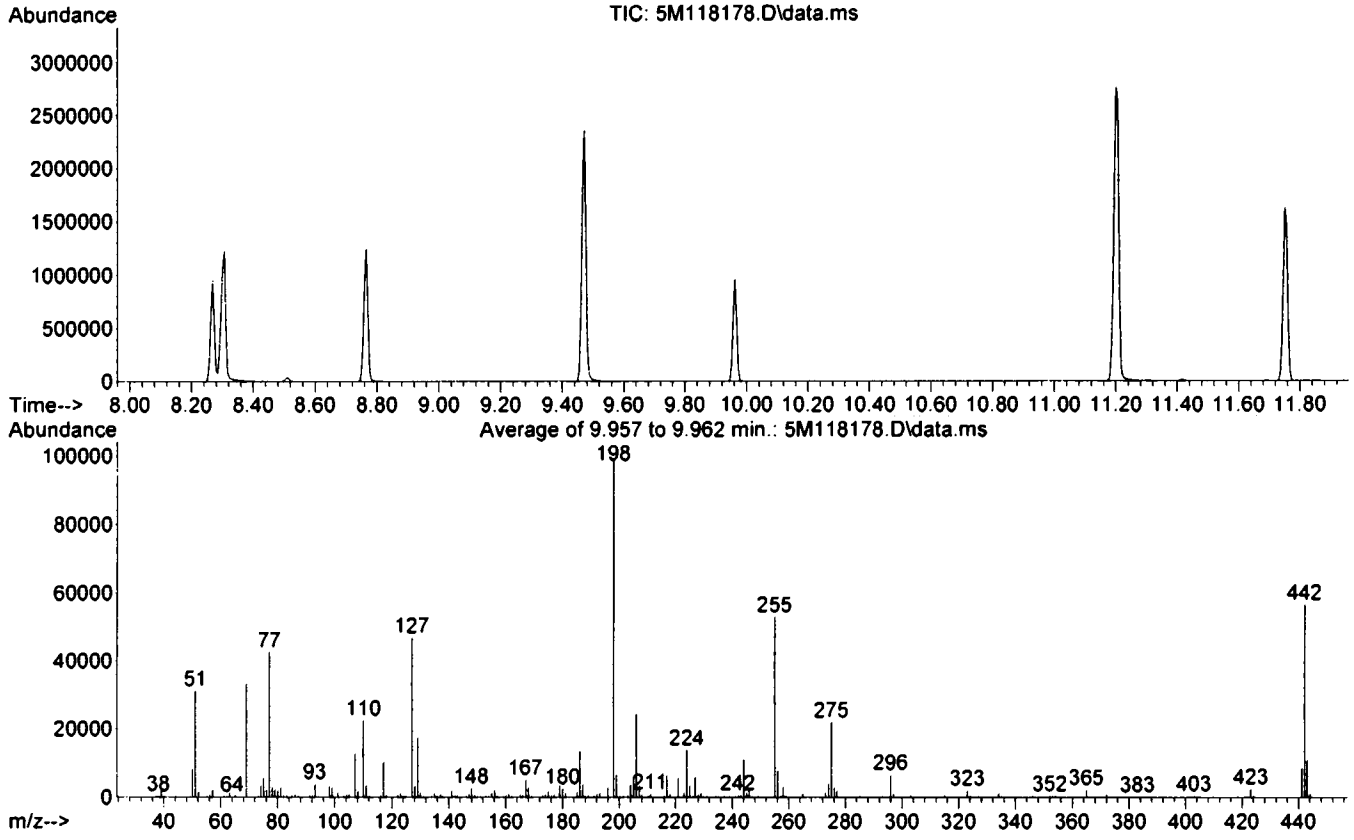
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.5	31284	PASS
68	69	0.00	2	0.8	273	PASS
69	198	0.00	100	33.6	33424	PASS
70	69	0.00	2	0.7	231	PASS
127	198	40	60	47.2	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99352	PASS
199	198	5	9	6.6	6600	PASS
275	198	10	30	22.3	22159	PASS
365	198	1	100	2.3	2334	PASS
441	443	0.01	100	79.0	8731	PASS
442	198	40	100	56.9	56568	PASS
443	442	17	23	19.5	11045	PASS

Data File	Sample Number	Analysis Date:
5M118179.D	CAL BNA@50PPM	10/13/21 09:46
5M118180.D	CAL BNA@10PPM	10/13/21 10:09
5M118181.D	CAL BNA@2PPM	10/13/21 10:32
5M118182.D	CAL BNA@196PP	10/13/21 10:56
5M118183.D	CAL BNA@160PP	10/13/21 11:20
5M118184.D	CAL BNA@120PP	10/13/21 11:51
5M118185.D	CAL BNA@80PPM	10/13/21 12:20
5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5M118187.D	CAL BNA@0.5PP	10/13/21 13:08
5M118188.D	ICV BNA@50PPM	10/13/21 13:34
5M118189.D	AD26497-008	10/13/21 14:00
5M118190.D	AD26497-007	10/13/21 14:24
5M118191.D	AD26509-002	10/13/21 14:48
5M118192.D	AD26509-001	10/13/21 15:12
5M118193.D	AD26503-021	10/13/21 15:35
5M118194.D	AD26497-007(MS)	10/13/21 15:59
5M118195.D	AD26497-007(MSD	10/13/21 16:23
5M118196.D	WMB95219	10/13/21 16:47

Data Path : G:\GcMsData\2021\GCMS_5\Data\10-13-21\
Data File : 5M118178.D
Acq On : 13 Oct 2021 9:17
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1011.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Oct 11 13:00:58 2021



Spectrum Information: Average of 9.957 to 9.962 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.5	31284	PASS
68	69	0.00	2	0.8	273	PASS
69	198	0.00	100	33.6	33424	PASS
70	69	0.00	2	0.7	231	PASS
127	198	40	60	47.2	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99352	PASS
199	198	5	9	6.6	6600	PASS
275	198	10	30	22.3	22159	PASS
365	198	1	100	2.3	2334	PASS
441	443	0.01	100	79.0	8731	PASS
442	198	40	100	56.9	56568	PASS
443	442	17	23	19.5	11045	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M117279.D
Instrument: GCMS 7 **Analysis Date:** 10/19/21 09:59
Method: EPA 8270E
Tune Scan/Time Range: Average of 9.990 to 10.002 min

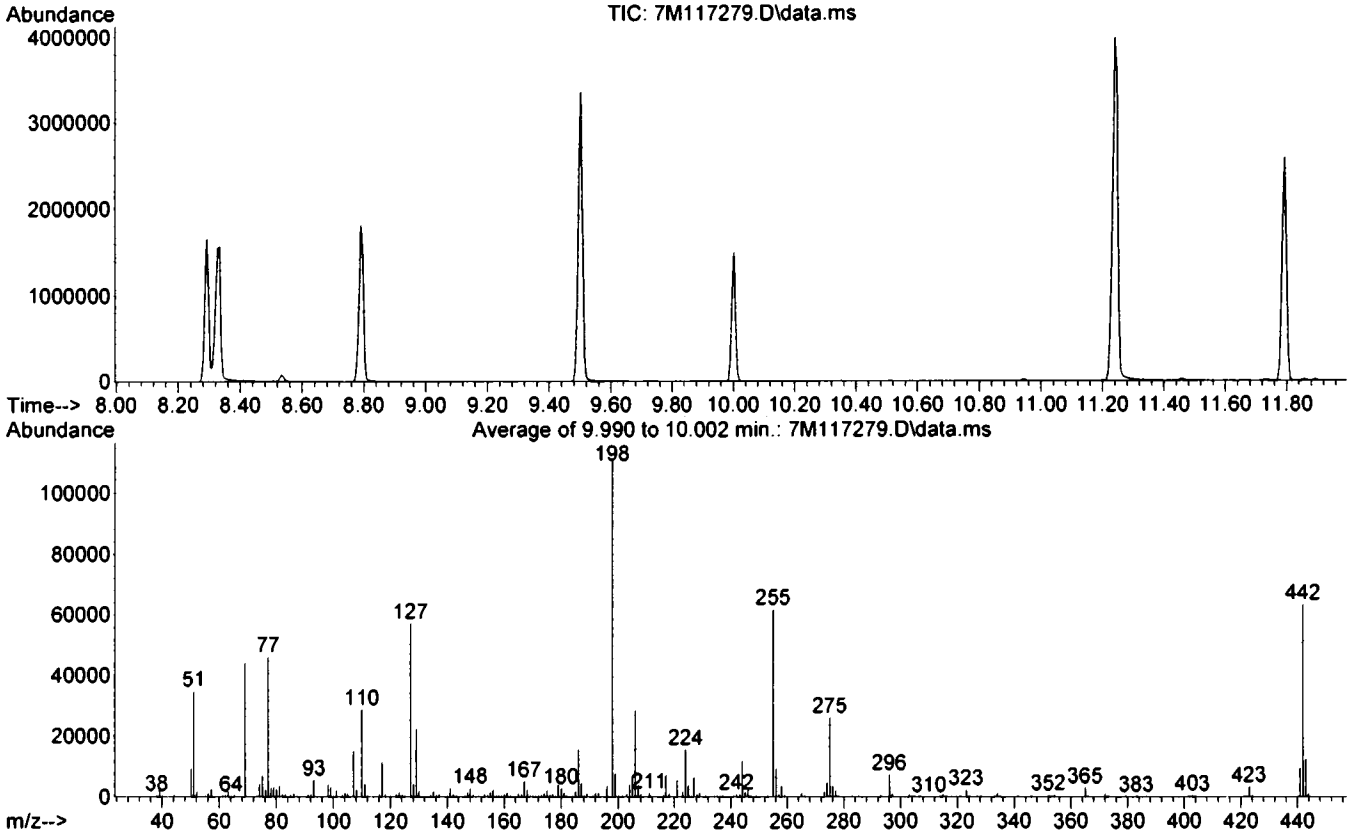
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.3	34826	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	44264	PASS
70	69	0.00	2	0.4	177	PASS
127	198	40	60	51.4	57208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111277	PASS
199	198	5	9	7.0	7788	PASS
275	198	10	30	23.5	26164	PASS
365	198	1	100	2.7	3010	PASS
441	443	0.01	100	74.5	9393	PASS
442	198	40	100	57.0	63373	PASS
443	442	17	23	19.9	12603	PASS

Data File	Sample Number	Analysis Date:
7M117280.D	CAL BNA@50PPM	10/19/21 10:23
7M117281.D	CAL BNA@10PPM	10/19/21 10:47
7M117282.D	CAL BNA@2PPM	10/19/21 11:10
7M117283.D	CAL BNA@196PP	10/19/21 11:34
7M117284.D	CAL BNA@160PP	10/19/21 11:57
7M117285.D	CAL BNA@120PP	10/19/21 12:20
7M117286.D	CAL BNA@80PPM	10/19/21 12:44
7M117287.D	CAL BNA@20PPM	10/19/21 13:07
7M117288.D	CAL BNA@0.5PP	10/19/21 13:31
7M117289.D	ICV BNA@50PPM	10/19/21 13:54

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-19-21\
Data File : 7M117279.D
Acq On : 19 Oct 2021 9:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_0920.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 20 13:06:38 2021



Spectrum Information: Average of 9.990 to 10.002 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	34826	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	44264	PASS
70	69	0.00	2	0.4	177	PASS
127	198	40	60	51.4	57208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111277	PASS
199	198	5	9	7.0	7788	PASS
275	198	10	30	23.5	26164	PASS
365	198	1	100	2.7	3010	PASS
441	443	0.01	100	74.5	9393	PASS
442	198	40	100	57.0	63373	PASS
443	442	17	23	19.9	12603	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M109073.D
Instrument: GCMS 9 **Analysis Date:** 10/26/21 08:32
Method: EPA 8270E
Tune Scan/Time Range: Average of 10.166 to 10.172 min

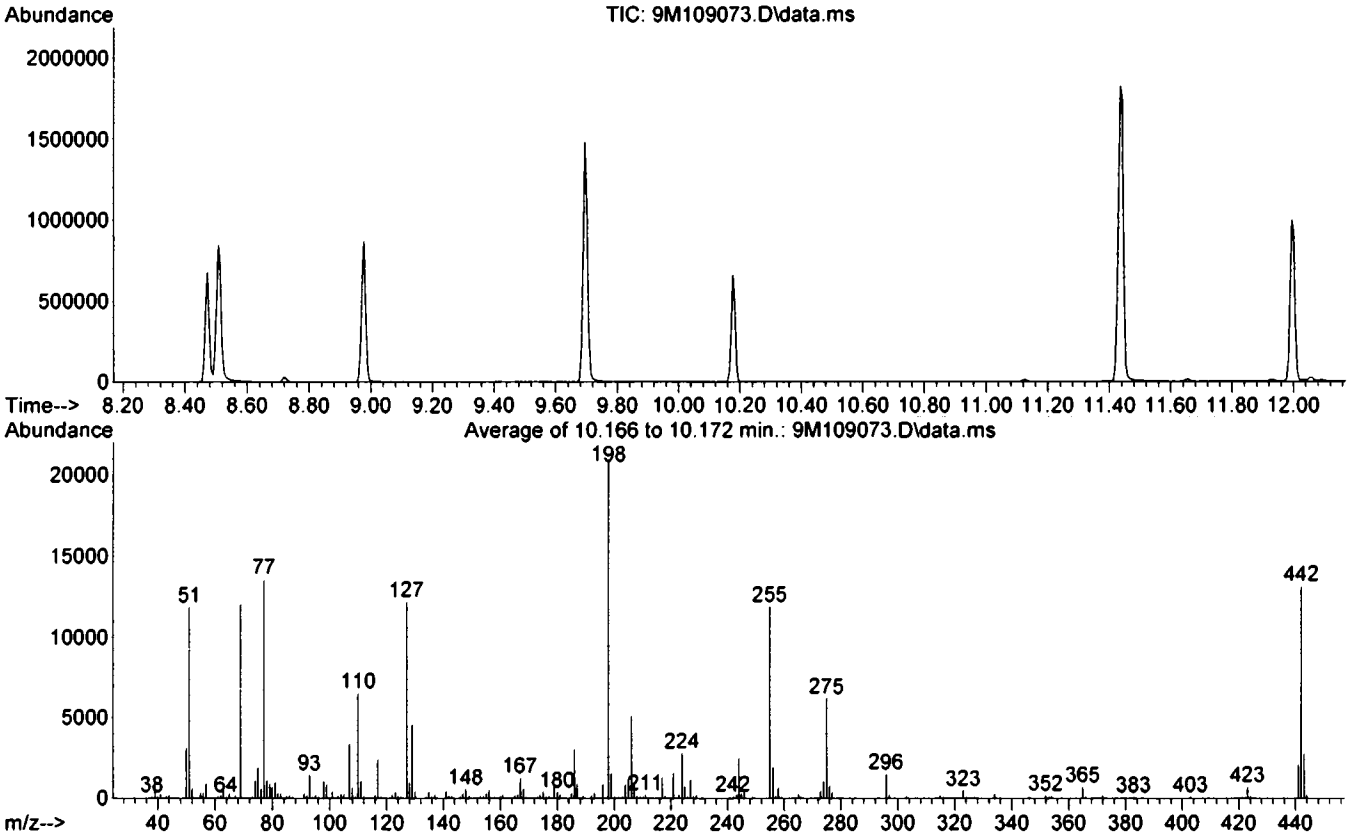
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	56.7	11887	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.4	12042	PASS
70	69	0.00	2	0.7	80	PASS
127	198	40	60	58.2	12210	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	20970	PASS
199	198	5	9	7.4	1542	PASS
275	198	10	30	29.6	6213	PASS
365	198	1	100	3.3	699	PASS
441	443	0.01	100	74.6	2076	PASS
442	198	40	100	62.9	13195	PASS
443	442	17	23	21.1	2782	PASS

Data File	Sample Number	Analysis Date:
9M109074.D	CAL BNA@50PPM	10/26/21 08:55
9M109075.D	WMB95369	10/26/21 09:18
9M109076.D	AD26741-002	10/26/21 09:42
9M109077.D	AD26741-003	10/26/21 10:05
9M109078.D	AD26741-004	10/26/21 10:28
9M109079.D	AD26741-006	10/26/21 10:51
9M109080.D	AD26771-005	10/26/21 11:14
9M109081.D	AD26771-014	10/26/21 11:38
9M109082.D	AD26771-015	10/26/21 12:01
9M109083.D	AD26771-016	10/26/21 12:24
9M109084.D	AD26741-002(3X)	10/26/21 12:47
9M109085.D	AD26741-006(5X)	10/26/21 13:11
9M109086.D	AD26823-001	10/26/21 13:34
9M109087.D	AD26807-001	10/26/21 13:57
9M109088.D	AD26765-001	10/26/21 14:20
9M109089.D	AD26765-001(MS)	10/26/21 14:43
9M109090.D	SMB95380	10/26/21 15:07
9M109091.D	AD26765-001(MSD	10/26/21 15:30
9M109092.D	AD26651-009	10/26/21 15:53
9M109093.D	AD26692-004	10/26/21 16:16
9M109094.D	AD26692-006	10/26/21 16:39
9M109095.D	AD26768-001	10/26/21 17:03
9M109096.D	AD26770-001(5X)	10/26/21 17:26
9M109097.D	AD26669-001(5X)	10/26/21 17:49
9M109098.D	AD26764-003(3X)	10/26/21 18:12
9M109099.D	AD26778-002(3X)	10/26/21 18:35
9M109100.D	AD26778-004(3X)	10/26/21 18:58
9M109101.D	AD26778-006(3X)	10/26/21 19:22
9M109102.D	AD26715-001	10/26/21 19:45
9M109103.D	AD26715-002	10/26/21 20:08
9M109104.D	AD26602-004(5X)	10/26/21 20:31
9M109105.D	AD26654-004	10/26/21 20:54

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-26-21\
Data File : 9M109073.D
Acq On : 26 Oct 2021 8:32
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1013.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Oct 13 12:40:21 2021



Spectrum Information: Average of 10.166 to 10.172 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.7	11887	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.4	12042	PASS
70	69	0.00	2	0.7	80	PASS
127	198	40	60	58.2	12210	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	20970	PASS
199	198	5	9	7.4	1542	PASS
275	198	10	30	29.6	6213	PASS
365	198	1	100	3.3	699	PASS
441	443	0.01	100	74.6	2076	PASS
442	198	40	100	62.9	13195	PASS
443	442	17	23	21.1	2782	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M117399.D
Instrument: GCMS 7 **Analysis Date:** 10/26/21 08:35
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.002 to 10.002 min

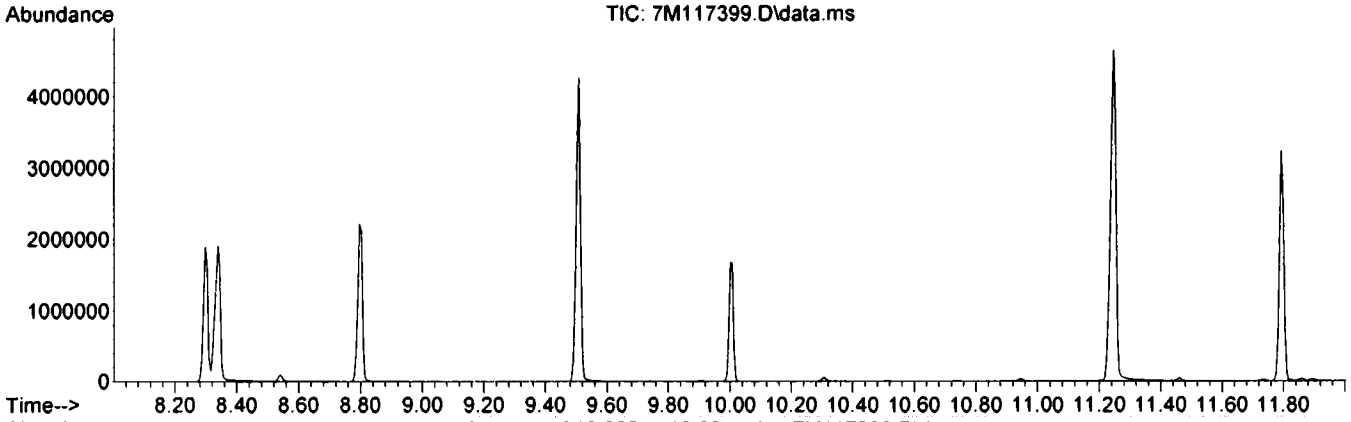
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.4	63056	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.4	77720	PASS
70	69	0.00	2	0.7	512	PASS
127	198	40	60	50.4	104568	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	207616	PASS
199	198	5	9	6.7	13967	PASS
275	198	10	30	24.0	49920	PASS
365	198	1	100	2.6	5423	PASS
441	443	0.01	100	71.8	17816	PASS
442	198	40	100	60.1	124704	PASS
443	442	17	23	19.9	24816	PASS

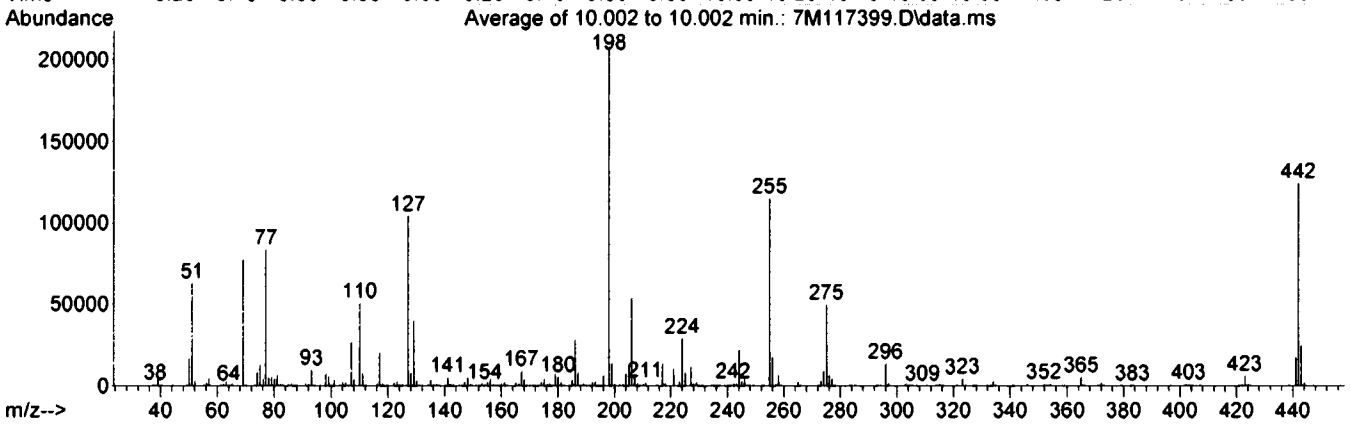
Data File	Sample Number	Analysis Date:
7M117400.D	CAL BNA@50PPM	10/26/21 09:00
7M117401.D	WMB95369(MS)	10/26/21 09:24
7M117402.D	WMB95369	10/26/21 09:48
7M117403.D	AD26757-001	10/26/21 10:12
7M117404.D	AD26757-002	10/26/21 10:36
7M117405.D	AD26757-003	10/26/21 11:00
7M117406.D	AD26421-001(T)	10/26/21 11:24
7M117407.D	AD26421-001(T)(M	10/26/21 11:49
7M117408.D	AD26421-001(T)(M	10/26/21 12:13
7M117409.D	AD26541-002(T)	10/26/21 12:37
7M117410.D	AD26757-003(3X)	10/26/21 13:01
7M117411.D	EF-SPLP V-359711	10/26/21 13:25
7M117412.D	EF-SPLP V-359711	10/26/21 13:49
7M117413.D	WMB95370	10/26/21 14:13
7M117414.D	AD26774-001	10/26/21 14:37
7M117415.D	AD26741-006(10X)	10/26/21 15:01
7M117416.D	AD26743-001	10/26/21 15:25
7M117417.D	AD26763-001	10/26/21 15:49
7M117418.D	AD26635-002	10/26/21 16:14
7M117419.D	AD26635-002(MS)	10/26/21 16:38
7M117420.D	AD26635-002(MSD	10/26/21 17:02
7M117421.D	AD26835-001	10/26/21 17:26
7M117422.D	AD26835-002	10/26/21 17:50
7M117423.D	SMB95380	10/26/21 18:14

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-26-21\
Data File : 7M117399.D
Acq On : 26 Oct 2021 8:35
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1019.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Oct 19 14:07:31 2021





Spectrum Information: Average of 10.002 to 10.002 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.4	63056	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.4	77720	PASS
70	69	0.00	2	0.7	512	PASS
127	198	40	60	50.4	104568	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	207616	PASS
199	198	5	9	6.7	13967	PASS
275	198	10	30	24.0	49920	PASS
365	198	1	100	2.6	5423	PASS
441	443	0.01	100	71.8	17816	PASS
442	198	40	100	60.1	124704	PASS
443	442	17	23	19.9	24816	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 5M118279.D
Instrument: GCMS 5 **Analysis Date:** 10/26/21 10:56
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.957 to 9.968 min

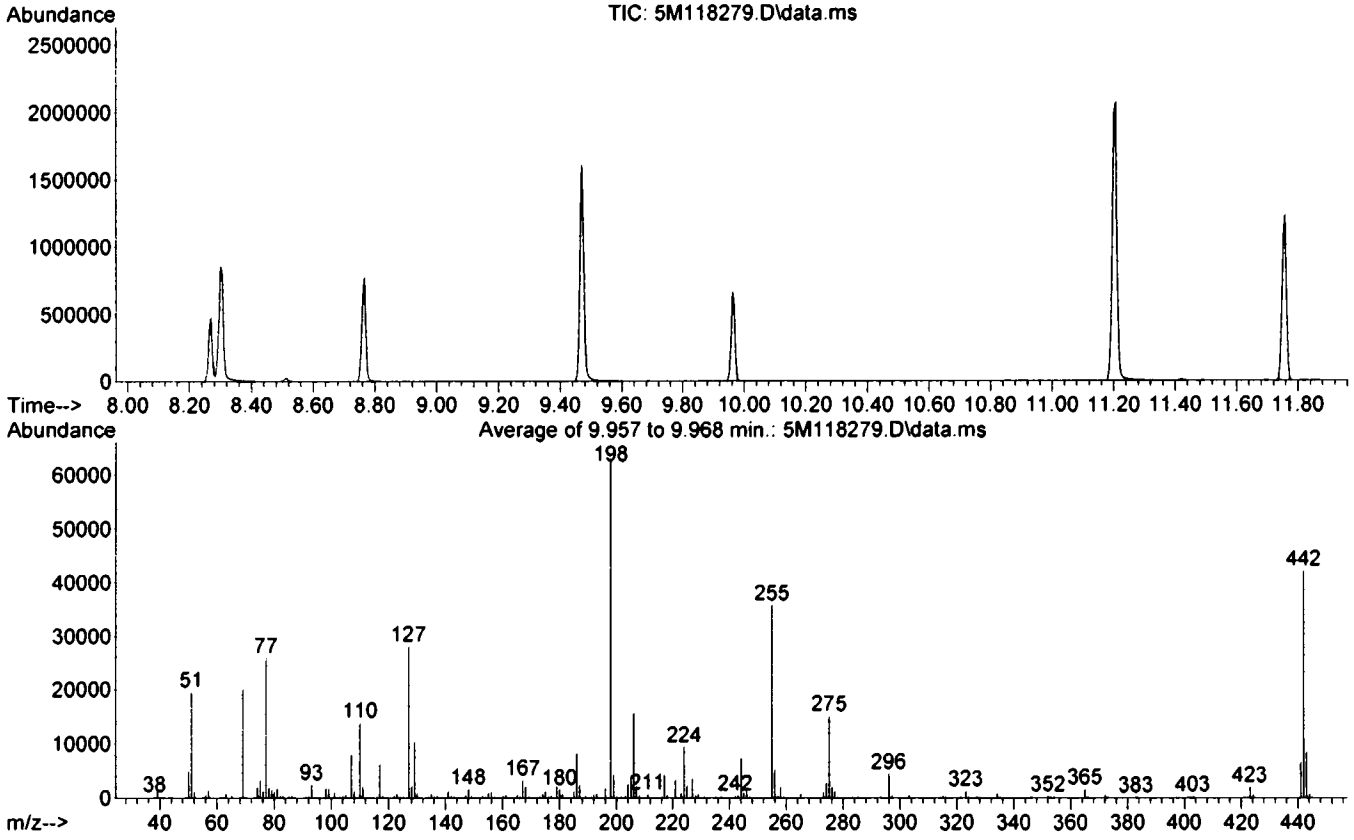
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.2	19638	PASS
68	69	0.00	2	0.9	186	PASS
69	198	0.00	100	32.2	20320	PASS
70	69	0.00	2	0.3	53	PASS
127	198	40	60	44.8	28253	PASS
197	198	0.00	1	0.2	140	PASS
198	198	100	100	100.0	63029	PASS
199	198	5	9	6.9	4345	PASS
275	198	10	30	24.0	15155	PASS
365	198	1	100	2.6	1630	PASS
441	443	0.01	100	76.9	6596	PASS
442	198	40	100	67.1	42275	PASS
443	442	17	23	20.3	8577	PASS

Data File	Sample Number	Analysis Date:
5M118280.D	CAL BNA@50PPM	10/26/21 11:19
5M118281.D	OMB95381(MS)	10/26/21 13:10
5M118282.D	OMB95381	10/26/21 13:34
5M118283.D	26741-006(10X)	10/26/21 13:57
5M118284.D	SMB95380(MS)	10/26/21 14:51
5M118285.D	AD26577-001	10/26/21 15:14
5M118286.D	SMB95380	10/26/21 15:37

Data Path : G:\GcMsData\2021\GCMS_5\Data\10-26-21\
Data File : 5M118279.D
Acq On : 26 Oct 2021 10:56
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1013.M
Title : @GCMS_5,mg,625,8270
Last Update : Wed Oct 13 13:26:27 2021



Spectrum Information: Average of 9.957 to 9.968 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.2	19638	PASS
68	69	0.00	2	0.9	186	PASS
69	198	0.00	100	32.2	20320	PASS
70	69	0.00	2	0.3	53	PASS
127	198	40	60	44.8	28253	PASS
197	198	0.00	1	0.2	140	PASS
198	198	100	100	100.0	63029	PASS
199	198	5	9	6.9	4345	PASS
275	198	10	30	24.0	15155	PASS
365	198	1	100	2.6	1630	PASS
441	443	0.01	100	76.9	6596	PASS
442	198	40	100	67.1	42275	PASS
443	442	17	23	20.3	8577	PASS

1101503 0070

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9844	0.9335	1.2197	1.0389	0.9882	0.9963	0.9891	1.0915	1.0658	1.03	2.60	0.995	0.998	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0198	1.9571	1.7976	2.1199	2.1724	2.1764	2.2225	2.4168	----	2.11	3.05	0.995	0.999	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4619	1.5305	1.3691	1.5127	1.5019	1.5268	1.5346	1.6693	----	1.51	3.00	0.996	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.4646	1.5021	1.3446	1.5066	1.5569	1.6098	1.6047	1.7644	----	1.54	4.59	0.995	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.2569	1.3547	1.1993	1.3102	1.2976	1.3046	1.3465	1.4258	----	1.31	5.42	0.997	1.00	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.4285	2.6063	2.3300	2.5218	2.4553	2.5121	2.5343	2.7651	2.5925	2.53	5.51	0.997	0.999	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.5610	0.6179	0.5456	0.5992	0.5825	0.5889	0.6052	0.6653	----	0.596	5.56	0.994	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.6300	1.8882	1.6321	1.7170	1.6663	1.6707	1.7069	1.8450	1.8064	1.73	5.57	0.996	0.999	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	1.8261	1.9022	1.7103	1.8934	1.9141	1.9393	2.0317	2.1762	----	1.92	5.47	0.995	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.2448	2.3790	2.1196	2.3142	2.2779	2.3298	2.4010	2.5826	----	2.33	5.49	0.997	1.00	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.6722	1.7904	1.5730	1.7926	1.7490	1.7535	1.7858	1.9388	----	1.76	5.61	0.997	0.999	6.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.5298	1.8118	1.5142	1.5931	1.5174	1.4638	1.5280	1.5615	----	1.56	5.65	0.999	0.999	6.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	1.8442	2.2220	1.8588	1.9888	1.9086	1.9290	1.9624	2.1264	----	1.98	5.74	0.996	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5448	1.8035	1.5104	1.5930	1.5837	1.6298	1.6574	1.8317	----	1.64	5.81	0.994	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4652	1.6488	1.4444	1.4864	1.4811	1.5413	1.5294	1.7348	----	1.54	5.93	0.992	0.997	6.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8591	0.7885	0.7618	0.8624	0.9071	0.9605	0.9467	1.0706	----	0.895	5.91	0.992	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3808	1.5942	1.3949	1.3966	1.3481	1.3672	1.3653	1.5275	----	1.42	6.02	0.997	0.998	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2047	1.1919	1.1534	1.2075	1.2382	1.2865	1.3015	1.4489	1.0969	1.24	5.99	0.994	0.999	8.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8698	1.8249	1.7324	1.8340	1.8424	1.7720	1.7202	1.8582	----	1.81	6.12	0.999	0.999	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5617	0.6087	0.5323	0.5770	0.5812	0.6089	0.6045	0.6845	----	0.595	6.21	0.992	0.998	7.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9119	0.8232	0.8118	0.8877	0.8800	0.8370	0.8154	0.8880	0.7362	0.844	6.12	0.997	0.997	6.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3615	1.2114	1.1905	1.3114	1.3665	1.3445	1.2984	1.3743	1.0959	1.28	6.12	0.999	0.999	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1429	0.1211	0.1215	0.1407	0.1510	0.1616	0.1602	0.1727	----	0.147	6.24	0.996	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3197	0.2959	0.2885	0.3187	0.3272	0.3391	0.3403	0.3739	----	0.325	6.26	0.995	0.999	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6141	0.5388	0.5456	0.6133	0.6445	0.6667	0.6552	0.7127	----	0.624	6.45	0.997	0.999	9.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1714	0.1248	0.1377	0.1645	0.1837	0.2001	0.1997	0.2151	----	0.175	6.51	0.995	0.999	18	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3405	0.3097	0.3032	0.3381	0.3396	0.3608	0.3646	0.3917	0.2727	0.336	6.53	0.996	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1388	----	0.0432	0.1001	0.1979	0.2300	0.2330	0.2573	----	0.172	6.59	0.992	0.998	46		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3829	0.3931	0.3643	0.3930	0.4000	0.4201	0.4140	0.4558	----	0.403	6.61	0.995	0.998	6.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2914	0.2370	0.2563	0.2860	0.3054	0.3212	0.3205	0.3559	0.2033	0.286	6.69	0.995	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3298	0.3510	0.3169	0.3360	0.3488	0.3618	0.3676	0.3983	----	0.351	6.76	0.995	0.999	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0225	1.1077	0.9711	1.0288	1.0399	1.0757	1.0704	1.1597	1.2131	1.08	6.82	0.997	0.999	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4164	0.3806	0.3830	0.4166	0.4261	0.4331	0.4286	0.4547	0.3469	0.410	6.85	0.998	0.999	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1960	0.2038	0.1813	0.2013	0.2002	0.2110	0.2123	0.2297	----	0.204	6.90	0.996	0.999	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.0936	0.0530	0.0702	0.0932	0.0985	0.1048	0.1048	0.1271	----	0.0932	7.13	0.981	0.994	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2661	0.2097	0.2330	0.2715	0.2827	0.3002	0.3038	0.3261	----	0.274	7.21	0.996	1.00	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7162	0.6980	0.6510	0.6906	0.7355	0.7585	0.7533	0.8054	----	0.726	7.35	0.998	0.999	6.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6584	0.6651	0.6004	0.6657	0.6524	0.7098	0.6986	0.7731	----	0.678	7.43	0.994	0.998	7.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6811	0.6816	0.6213	0.6731	0.6903	0.7299	0.7217	0.7838	----	0.698	7.35	0.997	0.999	6.9		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8118	0.8574	0.7719	0.8364	0.8565	0.8952	0.9042	0.9776	----	0.864	7.72	0.996	0.999	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6554	0.6844	0.5956	0.6821	0.7044	0.7476	0.7491	0.8005	----	0.702	7.48	0.997	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0071

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3832	0.2764	0.2826	0.3402	0.4086	0.4490	0.4512	0.4959	-----	0.386	7.47	0.994	0.999	21	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3938	0.3047	0.3318	0.3935	0.4381	0.4745	0.4729	0.5101	-----	0.415	7.57	0.996	0.999	17	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4233	0.3335	0.3658	0.4221	0.4732	0.4914	0.4921	0.5291	-----	0.441	7.60	0.996	0.999	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3372	1.4952	1.3010	1.4124	1.4315	1.4578	1.4925	1.6357	-----	1.45	7.64	0.995	0.999	7.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2315	1.3035	1.1890	1.3011	1.3207	1.3762	1.3863	1.4882	-----	1.32	7.75	0.996	0.999	7.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0608	1.0544	0.9477	1.0434	1.1246	1.1206	1.1040	1.1574	-----	1.08	8.03	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0608	1.0544	0.9477	1.0434	1.1246	1.1206	1.1040	1.1574	-----	1.08	8.03	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8500	0.9126	0.7953	0.8794	0.9121	0.9645	0.9684	1.0310	-----	0.914	7.81	0.997	1.00	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.3593	0.2570	0.2916	0.3466	0.3801	0.3900	0.3960	0.4184	-----	0.355	7.83	0.998	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4863	0.4363	0.4378	0.4884	0.5231	0.5335	0.5279	0.5557	-----	0.499	8.01	0.999	0.999	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8805	1.8740	1.7505	1.9037	1.9522	2.0456	2.0728	2.2158	-----	1.96	8.10	0.997	1.00	7.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3312	1.3469	1.2708	1.4090	1.4216	1.4775	1.5060	1.6054	-----	1.42	7.97	0.996	1.00	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3241	0.2242	0.2637	0.3139	0.3450	0.3432	0.3449	0.3587	-----	0.315	8.03	0.999	1.00	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2390	1.3202	1.1601	1.2523	1.3127	1.3519	1.3822	1.4616	-----	1.31	8.26	0.997	1.00	7.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3298	0.2330	0.2844	0.3399	0.3627	0.3773	0.3745	0.4030	-----	0.338	8.18	0.997	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1219	-----	0.0481	0.0788	0.1436	0.1732	0.1798	0.1980	-----	0.135	8.27	0.988	0.999	41	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7437	1.8400	1.6407	1.8096	1.8335	1.9051	1.9083	2.0790	2.0215	1.86	8.41	0.996	0.999	7.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3789	0.2182	0.3017	0.3766	0.4269	0.4567	0.4644	0.5096	-----	0.392	8.39	0.994	0.999	24	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2063	0.0773	0.1428	0.1779	0.2312	0.2437	0.2437	0.2687	-----	0.199	8.30	0.995	0.999	32	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Qua	0.3458	0.2673	0.3023	0.3616	0.3874	0.4278	0.4332	0.4742	-----	0.375	8.51	0.993	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4487	1.4023	1.2792	1.4268	1.5416	1.6144	1.6087	1.7245	-----	1.51	8.73	0.997	0.999	9.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7197	0.6954	0.6420	0.7217	0.7793	0.8200	0.8221	0.8747	-----	0.759	8.72	0.997	0.999	10	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2533	1.2376	1.1600	1.3075	1.3799	1.4330	1.4390	1.5582	-----	1.35	8.60	0.996	0.999	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3663	0.2241	0.2894	0.3583	0.3892	0.4116	0.4068	0.4429	-----	0.361	8.74	0.996	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.3687	0.2923	0.3040	0.3722	0.4095	0.4327	0.4421	0.4859	-----	0.388	9.36	0.993	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0985	-----	0.0544	0.0762	0.1144	0.1330	0.1344	0.1480	-----	0.108	8.77	0.991	0.999	31	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6250	0.5974	0.5487	0.6391	0.6608	0.7110	0.6886	0.7686	-----	0.655	8.83	0.995	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1017	0.0702	0.0806	0.0989	0.1101	0.1211	0.1199	0.1325	-----	0.104	8.96	0.994	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7280	0.6175	0.5933	0.6653	0.7477	0.6958	0.7547	0.8286	-----	0.704	8.87	0.995	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2076	0.1998	0.1888	0.2159	0.2336	0.2490	0.2473	0.2812	-----	0.228	9.21	0.991	0.998	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2269	0.2453	0.2147	0.2417	0.2450	0.2560	0.2586	0.2871	-----	0.247	9.27	0.993	0.999	8.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3653	0.3138	0.3124	0.3615	0.3743	0.3756	0.3647	0.3873	-----	0.357	9.53	0.999	0.999	7.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1258	-----	0.0813	0.1133	0.1472	0.1618	0.1662	0.1852	-----	0.140	9.47	0.992	0.999	25	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0850	1.1585	1.0059	1.1304	1.1426	1.2263	1.1929	1.3106	-----	1.16	9.71	0.996	0.999	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1319	1.0208	0.9840	1.1163	1.1784	1.2487	1.2424	1.3389	-----	1.16	9.76	0.997	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9990	0.8857	0.8826	1.0211	1.0703	1.1398	1.1004	1.2164	-----	1.04	9.94	0.995	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1276	0.7946	0.8687	1.1001	1.2349	1.3038	1.2905	1.4022	0.6491	1.09	10.31	0.996	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1956	0.9992	0.9973	1.1804	1.2974	1.3797	1.3624	1.4863	-----	1.24	11.04	0.996	0.999	14	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3470	1.2999	1.2330	1.3759	1.3863	1.4420	1.4303	1.5373	-----	1.38	11.30	0.997	0.999	6.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7386	0.3616	0.5121	0.6989	0.8002	0.8244	0.8168	0.8633	-----	0.702	11.20	0.997	0.999	25		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6034	0.6413	0.5667	0.6599	0.6574	0.6951	0.7065	0.7905	-----	0.665	11.48	0.991	0.998	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 11.9

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0072

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2559	0.2457	0.2286	0.2652	0.2730	0.2972	0.3056	0.3350	-----	0.276	11.42	0.992	0.999	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4369	0.3323	0.3630	0.4553	0.4881	0.4983	0.5144	0.5468	-----	0.454	11.82	0.996	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4880	0.2881	0.3628	0.4841	0.5505	0.5807	0.5829	-----	-----	0.477	12.08	0.998	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0		
4,4'-DDT	1	0	Qua	0.4261	0.2617	0.3150	0.3905	0.4583	0.4719	0.4753	0.4993	-----	0.412	12.17	0.998	1.00	21		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4330	0.2632	0.3330	0.4466	0.5004	0.5156	0.5162	0.5593	-----	0.446	12.70	0.996	0.999	23	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2442	1.2581	1.1237	1.3095	1.3238	1.4130	1.4024	1.5465	-----	1.33	12.72	0.994	0.999	9.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.3258	1.3406	1.1729	1.3328	1.3591	1.3220	1.3293	1.4342	-----	1.33	12.77	0.997	0.998	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7886	0.4104	0.5574	0.7349	0.8430	0.8356	0.8163	0.8761	-----	0.733	12.77	0.998	0.999	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.0694	0.4703	0.7008	1.0146	1.2477	1.3525	1.3965	1.4923	-----	1.09	13.51	0.995	1.00	33	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1058	0.9993	0.9808	1.1920	1.2411	1.3236	1.3983	1.4559	-----	1.21	13.93	0.993	1.00	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1656	1.0856	1.0514	1.2025	1.2044	1.2868	1.3181	1.4507	-----	1.22	13.96	0.993	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Qua	1.0755	0.9138	0.9348	1.0553	1.1714	1.2552	1.2924	1.4057	-----	1.14	14.29	0.993	1.00	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Qua	1.1943	1.1099	1.0096	1.2084	1.3006	1.4175	1.5088	1.6207	-----	1.30	15.65	0.990	1.00	16	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0081	0.9143	0.8520	0.9998	1.0926	1.1935	1.2590	1.3507	-----	1.08	15.67	0.993	1.00	16	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9995	0.9960	0.9077	1.0117	1.0614	1.1559	1.1874	1.2792	-----	1.07	16.03	0.994	1.00	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0073

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9967	1.2587	0.9821	1.0511	1.0153	1.0078	1.0099	1.0990	1.0847	1.06	2.84	0.998	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.1791	2.0556	1.8617	2.2586	2.2815	2.2742	2.2705	2.4575	-----	2.20	3.29	0.997	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5572	1.5979	1.4786	1.6325	1.6047	1.6170	1.6167	1.7398	-----	1.61	3.24	0.998	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.4221	2.5841	2.2341	2.4896	2.5154	2.5095	2.5256	2.6466	-----	2.49	4.77	0.999	1.00	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0211	2.2026	1.9797	2.1751	2.1512	2.1183	2.1124	2.2106	-----	2.12	5.60	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.8157	4.2856	3.7093	4.1026	3.9736	3.8771	3.8815	4.0444	4.5998	4.03	5.69	0.999	0.999	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8633	0.9564	0.8304	0.9149	0.8978	0.8910	0.8906	0.9426	-----	0.898	5.73	0.998	0.999	4.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4637	2.8983	2.4493	2.6227	2.5602	2.5214	2.5125	2.6315	2.9209	2.62	5.74	0.999	0.999	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9016	3.0275	2.7234	3.0537	3.0375	2.9786	2.9559	3.1087	-----	2.97	5.64	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.5176	4.0101	3.4491	3.7201	3.6421	3.5766	3.5502	3.7101	-----	3.65	5.65	0.999	0.999	4.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.6895	2.7936	2.5896	2.8354	2.7964	2.7785	2.7484	2.8730	-----	2.76	5.78	0.999	0.999	3.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.3069	2.8347	2.3718	2.4694	2.3978	2.3390	2.3015	2.3993	-----	2.43	5.82	0.999	0.999	7.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0576	3.4863	2.9330	3.2223	3.0602	2.9992	2.9263	3.0939	-----	3.10	5.92	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5601	1.8255	1.5759	1.6233	1.5845	1.5758	1.5519	1.7277	-----	1.63	5.98	0.995	0.997	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4744	1.7771	1.5216	1.5356	1.4876	1.4909	1.4640	1.6198	-----	1.55	6.11	0.995	0.998	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8832	0.9251	0.8568	0.8971	0.9273	0.9321	0.9374	1.0272	-----	0.923	6.08	0.997	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3833	1.8059	1.5704	1.5107	1.4879	1.4835	1.4923	1.6377	-----	1.55	6.19	0.995	0.998	8.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2096	1.2825	1.2067	1.2604	1.2563	1.2664	1.2540	1.3867	1.2718	1.27	6.16	0.995	0.998	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7481	2.0040	1.8292	1.8339	1.7809	1.7407	1.6852	1.8094	-----	1.80	6.30	0.998	0.998	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5416	0.6131	0.5354	0.5617	0.5654	0.5708	0.5684	0.6328	-----	0.574	6.38	0.997	0.999	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8436	0.9419	0.8753	0.9068	0.8861	0.8701	0.8528	0.9199	0.8777	0.886	6.29	0.998	0.999	3.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2621	1.3278	1.2726	1.3267	1.3182	1.2892	1.2678	1.3354	1.2477	1.29	6.28	0.999	0.999	2.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1538	0.1347	0.1391	0.1555	0.1595	0.1635	0.1625	0.1818	-----	0.156	6.42	0.994	0.998	9.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3246	0.3403	0.3274	0.3417	0.3385	0.3397	0.3381	0.3732	-----	0.340	6.43	0.995	0.998	4.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6066	0.6527	0.5993	0.6496	0.6287	0.6311	0.6280	0.6962	-----	0.637	6.61	0.995	0.998	4.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1807	0.1433	0.1556	0.1821	0.1902	0.1955	0.1944	0.2180	-----	0.183	6.68	0.996	0.999	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3252	0.3241	0.3126	0.3391	0.3350	0.3366	0.3334	0.3704	0.2924	0.330	6.70	0.995	0.998	6.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1725	-----	0.0463	0.1327	0.2149	0.2448	0.2464	0.2676	-----	0.189	6.75	0.994	0.999	41		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3610	0.4386	0.3697	0.3851	0.3786	0.3794	0.3739	0.4109	-----	0.387	6.77	0.996	0.998	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2891	0.2593	0.2611	0.2958	0.2915	0.2974	0.2933	0.3231	0.2484	0.284	6.86	0.996	0.998	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3247	0.3833	0.3100	0.3313	0.3208	0.3239	0.3212	0.3589	-----	0.334	6.92	0.994	0.997	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0511	1.2703	1.0722	1.1160	1.0432	1.0377	1.0061	1.0912	1.2970	1.11	7.00	0.998	0.998	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4130	0.4122	0.4021	0.4307	0.4186	0.4093	0.4009	0.4393	0.4191	0.416	7.02	0.997	0.998	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1972	0.2209	0.1798	0.1990	0.1923	0.1994	0.1960	0.2186	-----	0.200	7.08	0.994	0.998	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1017	0.0632	0.0804	0.1023	0.1053	0.1077	0.1070	0.1157	-----	0.0979	7.30	0.997	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2721	0.2416	0.2470	0.2776	0.2828	0.2892	0.2866	0.3166	-----	0.277	7.39	0.995	0.998	8.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6990	0.7632	0.6886	0.7388	0.6943	0.6896	0.6774	0.7375	-----	0.711	7.54	0.997	0.998	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6465	0.7381	0.6446	0.6957	0.6508	0.6430	0.6240	0.6890	-----	0.666	7.54	0.996	0.997	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6729	0.7506	0.6634	0.7147	0.6677	0.6641	0.6504	0.7101	-----	0.687	7.61	0.996	0.998	5.0		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8277	0.9459	0.8090	0.8669	0.8143	0.8074	0.7883	0.8659	-----	0.841	7.91	0.996	0.998	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6844	0.7366	0.6378	0.7025	0.6743	0.6935	0.6879	0.7492	-----	0.696	7.67	0.996	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.02

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0074

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.4007	0.2657	0.3066	0.3782	0.4226	0.4455	0.4536	0.5036	-----	0.397	7.65	0.993	0.999	20	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4299	0.3414	0.3574	0.4241	0.4740	0.4495	0.4414	0.4886	-----	0.426	7.75	0.995	0.997	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4394	0.3518	0.3885	0.4595	0.4632	0.4761	0.4623	0.5255	-----	0.446	7.78	0.996	0.998	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4698	1.6369	1.4268	1.5270	1.4593	1.4966	1.4740	1.6110	-----	1.51	7.82	0.998	0.999	4.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2671	1.4237	1.2376	1.3444	1.2681	1.2832	1.2750	1.3912	-----	1.31	7.94	0.998	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	-----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	-----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.9032	0.9895	0.8537	0.9412	0.8983	0.9172	0.8985	0.9859	-----	0.923	8.00	0.996	0.998	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3744	0.3185	0.3439	0.3879	0.4004	0.4124	0.4117	0.4479	-----	0.387	8.01	0.996	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4963	0.4977	0.4772	0.5247	0.5072	0.5130	0.5061	0.5447	-----	0.508	8.20	0.997	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9640	2.0683	1.8862	2.0434	1.9736	1.9770	1.9309	2.0753	-----	1.99	8.30	0.999	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3903	1.5091	1.3612	1.4778	1.4037	1.4308	1.4169	1.5340	-----	1.44	8.15	0.997	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3269	0.2527	0.2927	0.3223	0.3313	0.3379	0.3265	0.3459	-----	0.317	8.22	0.999	0.999	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2392	1.4339	1.2186	1.3071	1.2403	1.2377	1.2217	1.3054	-----	1.28	8.45	0.998	0.999	5.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3672	0.3019	0.3253	0.3765	0.3799	0.3842	0.3808	0.4136	-----	0.366	8.37	0.997	0.999	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1501	-----	0.0603	0.1087	0.1823	0.2026	0.2039	0.2266	-----	0.162	8.47	0.993	0.999	37	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8016	2.1079	1.7999	1.9020	1.8069	1.8031	1.7743	1.9321	2.1281	1.90	8.61	0.997	0.998	7.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4226	0.2885	0.3468	0.4208	0.4346	0.4509	0.4488	0.4931	-----	0.413	8.58	0.995	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2269	0.0949	0.1590	0.2316	0.2516	0.2547	0.2657	0.2894	-----	0.222	8.49	0.994	0.999	29	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.4203	0.3175	0.3515	0.4123	0.4201	0.4335	0.4306	0.4751	-----	0.408	8.71	0.995	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4449	1.5231	1.4006	1.5278	1.4390	1.4559	1.4289	1.5292	-----	1.47	8.94	0.998	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7572	0.7985	0.7008	0.7730	0.7507	0.7742	0.7717	0.8455	-----	0.771	8.92	0.997	0.999	5.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2901	1.3979	1.2646	1.3963	1.3568	1.3801	1.3724	1.4937	-----	1.37	8.80	0.996	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3849	0.2747	0.3370	0.3990	0.4018	0.4164	0.4137	0.4532	-----	0.385	8.94	0.996	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4011	0.3140	0.3366	0.4064	0.4136	0.4292	0.4269	0.4669	-----	0.399	9.57	0.996	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1149	-----	0.0705	0.1018	0.1271	0.1371	0.1377	0.1537	-----	0.120	8.97	0.993	0.998	23	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6296	0.6578	0.6057	0.6583	0.6343	0.6451	0.6335	0.6984	-----	0.645	9.04	0.998	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1430	0.0955	0.1162	0.1404	0.1442	0.1518	0.1524	0.1725	-----	0.140	9.17	0.992	0.998	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6138	0.6610	0.6437	0.6858	0.6643	0.6754	0.7300	0.7984	-----	0.684	9.08	0.992	0.999	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2568	0.2451	0.2268	0.2551	0.2549	0.2651	0.2632	0.2968	-----	0.258	9.42	0.993	0.997	7.7	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.3034	0.3461	0.2825	0.3059	0.3031	0.3125	0.3100	0.3504	-----	0.314	9.49	0.992	0.997	7.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3278	0.3038	0.3266	0.3598	0.3670	0.3723	0.3667	0.3970	-----	0.353	9.75	0.997	0.999	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1758	-----	0.1190	0.1582	0.1866	0.1990	0.1988	0.2268	-----	0.181	9.69	0.994	0.998	19	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0638	1.2727	1.0615	1.1336	1.0731	1.0896	1.0736	1.1758	-----	1.12	9.93	0.996	0.998	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0941	1.1477	1.0479	1.1410	1.0993	1.1145	1.0989	1.2120	-----	1.12	9.99	0.995	0.998	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0007	0.9976	0.9545	1.0480	1.0121	1.0318	1.0095	1.1129	-----	1.02	10.15	0.996	0.998	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.0802	0.8391	0.9430	1.1213	1.1757	1.2129	1.1822	1.3027	0.7512	1.07	10.53	0.996	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2144	1.0931	1.0689	1.2256	1.2238	1.2524	1.2332	1.3695	-----	1.21	11.27	0.995	0.998	7.8	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1675	1.1970	1.1118	1.2226	1.1714	1.1709	1.1802	1.2715	-----	1.19	11.54	0.997	0.999	3.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7001	0.4142	0.5311	0.6788	0.7382	0.7488	0.7469	0.8057	-----	0.671	11.42	0.998	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6793	0.6836	0.6206	0.6942	0.6973	0.7137	0.7170	0.8041	-----	0.701	11.72	0.993	0.998	7.3		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.02

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0075

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2430	0.2497	0.2248	0.2476	0.2556	0.2676	0.2769	0.3047	-----	0.259	11.65	0.993	0.999	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4260	0.3255	0.3548	0.4248	0.4470	0.4620	0.4640	0.5143	-----	0.427	12.05	0.996	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4179	0.2749	0.3473	0.4234	0.4695	0.4925	0.4924	0.5439	-----	0.433	12.31	0.994	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3885	0.2638	0.3222	0.3789	0.4145	0.4338	0.4378	0.4851	-----	0.391	12.41	0.994	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4990	0.3055	0.3843	0.4713	0.5188	0.5327	0.5292	0.5751	-----	0.477	12.94	0.997	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1554	1.2399	1.0905	1.2144	1.1901	1.2150	1.2161	1.3230	-----	1.21	12.97	0.996	0.999	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1522	1.4067	1.1114	1.1984	1.1657	1.1347	1.1706	1.2679	-----	1.20	13.01	0.996	0.999	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.5743	0.4037	0.5274	0.6162	0.6754	0.6985	0.6940	0.7546	-----	0.618	12.99	0.995	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	0.7872	0.3805	0.5873	0.7748	0.9384	1.0004	1.0169	1.1208	-----	0.826	13.74	0.993	0.999	30	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0767	0.9118	0.9248	1.0569	1.1321	1.2148	1.1895	1.2903	-----	1.10	14.18	0.996	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0226	1.1479	1.0612	1.1833	1.1191	1.1061	1.1487	1.2874	-----	1.13	14.21	0.991	0.998	7.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0343	0.9073	0.9447	1.0755	1.0754	1.1166	1.1401	1.2623	-----	1.07	14.56	0.993	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1785	1.0481	1.0485	1.2356	1.3053	1.3771	1.4123	1.5753	-----	1.27	16.02	0.991	0.999	14	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0072	0.8777	0.9080	1.0620	1.1181	1.1715	1.1943	1.3241	-----	1.08	16.05	0.993	0.999	14	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9373	0.9621	0.9140	1.0455	1.0757	1.1254	1.1454	1.2683	-----	1.06	16.43	0.992	0.999	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.02
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0076

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9291	1.2357	1.0186	1.0157	0.9851	1.0209	0.9767	1.0667	1.4455	1.08	2.60	0.997	0.998	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0417	2.1718	1.9339	2.1760	2.2214	2.3178	2.2137	2.3199	-----	2.17	3.07	0.998	0.999	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4812	1.6218	1.4617	1.5623	1.5740	1.6171	1.5494	1.6446	-----	1.56	3.02	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3863	2.7422	2.4328	2.5908	2.6544	2.7337	2.5942	2.6923	-----	2.60	4.61	0.997	0.998	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0224	2.4152	2.1213	2.2826	2.1595	2.0541	1.8145	1.7142	-----	2.07	5.44	0.991	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.7045	4.5774	3.9187	4.1852	4.0682	4.0227	3.8135	3.8646	4.7069	4.10	5.53	0.999	0.999	8.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9039	1.1389	0.9243	1.0039	0.9961	0.9896	0.9449	0.9714	-----	0.984	5.57	0.999	0.999	7.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.3864	3.0419	2.5385	2.7084	2.5792	2.6173	2.4447	2.3760	2.9714	2.63	5.59	0.997	0.999	9.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.8327	3.3018	2.9622	3.1339	3.1679	3.1757	2.9892	3.0492	-----	3.08	5.49	0.998	0.999	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4146	3.9962	3.5402	3.8535	3.7346	3.7018	3.4938	3.7325	-----	3.68	5.50	0.998	0.998	5.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.7079	3.2079	2.7681	3.0752	3.0518	3.0259	2.8622	2.9132	-----	2.95	5.63	0.999	0.999	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.9009	2.4579	2.0538	2.1485	2.0680	1.9939	1.8715	1.9318	-----	2.05	5.67	0.998	0.998	9.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0862	3.8008	3.2142	3.5303	3.4402	3.3586	3.1509	3.2187	-----	3.35	5.76	0.998	0.998	7.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5108	1.9364	1.5804	1.6226	1.5484	1.5432	1.5188	1.6926	-----	1.62	5.82	0.994	0.997	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4490	1.7139	1.5126	1.5470	1.4714	1.4578	1.4421	1.5670	-----	1.52	5.95	0.997	0.998	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8775	0.9661	0.8801	0.9107	0.8804	0.8799	0.8792	0.9561	-----	0.904	5.92	0.998	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.0196	1.2423	1.0577	1.0800	0.9873	0.9734	0.9546	1.0495	-----	1.05	6.04	0.996	0.997	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1679	1.3384	1.1632	1.2504	1.1711	1.1693	1.1581	1.2681	1.3662	1.23	6.01	0.996	0.998	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7527	2.2158	1.8668	1.8949	1.7072	1.6923	1.6435	1.8018	-----	1.82	6.14	0.996	0.997	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5554	0.6777	0.5705	0.5967	0.5603	0.5677	0.5618	0.6204	-----	0.589	6.22	0.995	0.998	7.2	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8412	1.0449	0.9172	0.9094	0.8088	0.7916	0.7876	0.8621	0.9967	0.884	6.14	0.998	0.998	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2210	1.3933	1.2285	1.2932	1.2060	1.1940	1.1842	1.2829	1.3540	1.26	6.13	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1548	0.1644	0.1487	0.1569	0.1579	0.1629	0.1572	0.1728	-----	0.160	6.26	0.998	0.999	4.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3159	0.3794	0.3191	0.3292	0.3159	0.3159	0.3061	0.3312	-----	0.327	6.28	0.997	0.998	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6038	0.7106	0.6214	0.6301	0.6006	0.6043	0.5974	0.6506	-----	0.627	6.47	0.996	0.998	6.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1919	0.1721	0.1747	0.1887	0.1980	0.2037	0.1966	0.2124	-----	0.192	6.52	0.998	0.999	7.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3399	0.3840	0.3369	0.3526	0.3396	0.3385	0.3340	0.3629	0.3784	0.352	6.55	0.997	0.998	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2151	-----	0.1404	0.2033	0.2675	0.2733	0.2797	0.2778	-----	0.237	6.62	0.998	0.998	22		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3534	0.4215	0.3647	0.3730	0.3534	0.3543	0.3462	0.3775	-----	0.368	6.63	0.997	0.998	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2909	0.2902	0.2827	0.3015	0.2998	0.3062	0.3013	0.3271	0.2852	0.298	6.71	0.997	0.999	4.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3207	0.3695	0.3190	0.3356	0.3332	0.3405	0.3302	0.3626	-----	0.339	6.78	0.996	0.998	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9608	1.2495	1.0442	1.0623	0.9946	0.9646	0.9851	1.0351	1.2585	1.06	6.84	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4030	0.4712	0.4083	0.4185	0.4020	0.3964	0.5042	0.3975	0.4662	0.430	6.88	0.988	0.988	9.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1869	0.2330	0.1879	0.1995	0.1965	0.2016	0.1993	0.2200	-----	0.203	6.93	0.995	0.998	7.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1013	0.1069	0.1064	0.1062	0.1031	0.1147	0.1139	0.1236	-----	0.110	7.17	0.995	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2875	0.2926	0.2878	0.2987	0.2960	0.2970	0.2930	0.3221	-----	0.297	7.25	0.996	0.998	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7025	0.8370	0.7128	0.7434	0.7163	0.7272	0.7104	0.7711	-----	0.740	7.39	0.997	0.998	6.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6481	0.7943	0.6754	0.6985	0.6650	0.6611	0.6498	0.7069	-----	0.687	7.46	0.997	0.998	7.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6739	0.8157	0.6940	0.7209	0.6906	0.6942	0.6802	0.7390	-----	0.714	7.46	0.997	0.998	6.5		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8349	1.0169	0.8677	0.8906	0.8627	0.8534	0.8345	0.9114	-----	0.884	7.76	0.997	0.998	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6027	0.6906	0.6050	0.6489	0.6371	0.6526	0.6485	0.6934	-----	0.647	7.52	0.997	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.89

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0077

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
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7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3670	0.2912	0.3144	0.3539	0.3912	0.4060	0.4114	0.4390	-----	0.372	7.51	0.997	1.00	14	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4217	0.4031	0.4019	0.4359	0.4784	0.4746	0.4708	0.4989	-----	0.448	7.60	0.998	0.999	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3878	0.4241	0.4246	0.4400	0.4696	0.4849	0.4882	0.5207	-----	0.455	7.64	0.996	0.999	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4069	1.7169	1.4226	1.5172	1.4461	1.4698	1.4455	1.5395	-----	1.50	7.68	0.999	0.999	6.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1982	1.4478	1.2382	1.3108	1.2300	1.2489	1.2392	1.3052	-----	1.28	7.79	0.998	0.999	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9773	1.2316	1.0144	1.0697	1.0002	1.0113	0.9963	1.0534	-----	1.04	8.07	0.998	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9773	1.2316	1.0144	1.0697	1.0002	1.0113	0.9963	1.0534	-----	1.04	8.07	0.999	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8536	1.0282	0.8692	0.9247	0.8810	0.8869	0.8871	0.9395	-----	0.909	7.85	0.998	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3564	0.3662	0.3573	0.3718	0.3590	0.3583	0.3555	0.3764	-----	0.363	7.86	0.998	0.999	2.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4854	0.5090	0.4985	0.5176	0.4956	0.5005	0.4918	0.5142	-----	0.502	8.05	0.999	0.999	2.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9149	2.2761	2.0017	2.1031	1.9475	1.9438	1.9195	2.0359	-----	2.02	8.15	0.999	0.999	6.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.4199	1.7259	1.4773	1.5425	1.4608	1.4707	1.4648	1.5549	-----	1.51	8.02	0.998	0.999	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3281	0.3627	0.3295	0.3530	0.3329	0.3351	0.3355	0.3482	-----	0.341	8.07	0.999	1.00	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1926	1.4933	1.2324	1.3064	1.2292	1.2351	1.2351	1.3207	-----	1.28	8.30	0.997	0.999	7.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3596	0.3738	0.3592	0.3840	0.3759	0.3686	0.3630	0.3825	-----	0.371	8.22	0.999	0.999	2.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1709	-----	0.1063	0.1457	0.1914	0.2041	0.2068	0.2218	-----	0.178	8.31	0.997	0.999	23	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7664	2.1187	1.8250	1.8970	1.8194	1.8009	1.7685	1.8797	2.2401	1.90	8.46	0.999	0.999	8.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4338	0.3938	0.4218	0.4595	0.4592	0.4721	0.4763	0.5086	-----	0.453	8.43	0.997	0.999	7.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2285	0.1307	0.1991	0.2272	0.2411	0.2426	0.2469	0.2643	-----	0.223	8.35	0.998	1.00	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3769	0.3902	0.3604	0.3928	0.4086	0.4142	0.4232	0.4481	-----	0.402	8.56	0.997	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4233	1.7264	1.4744	1.5400	1.4686	1.4909	1.4697	1.5553	-----	1.52	8.78	0.998	0.999	6.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7098	0.8307	0.7129	0.7571	0.7602	0.7691	0.7728	0.8220	-----	0.767	8.77	0.998	0.999	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4439	1.7642	1.4819	1.5654	1.4937	1.4977	1.4884	1.5752	-----	1.54	8.65	0.998	0.999	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3827	0.3363	0.3767	0.4026	0.4041	0.4019	0.4015	0.4271	-----	0.392	8.79	0.998	0.999	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4247	0.4787	0.4160	0.4572	0.4484	0.4546	0.4574	0.4832	-----	0.453	9.41	0.998	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1197	-----	0.1001	0.1151	0.1302	0.1362	0.1377	0.1475	-----	0.127	8.81	0.997	0.999	13	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6085	0.7106	0.6224	0.6675	0.6301	0.6455	0.6402	0.6842	-----	0.651	8.88	0.998	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1064	0.0975	0.0989	0.1083	0.1150	0.1220	0.1239	0.1343	-----	0.113	9.01	0.995	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6618	0.7196	0.6324	0.6650	0.6614	0.6588	0.6411	0.6770	-----	0.665	8.92	0.999	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2132	0.2441	0.2095	0.2266	0.2309	0.2388	0.2416	0.2603	-----	0.233	9.26	0.996	0.999	7.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2266	0.2692	0.2241	0.2408	0.2425	0.2560	0.2563	0.2773	-----	0.249	9.31	0.994	0.999	7.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3105	0.3525	0.3164	0.3223	0.3049	0.3015	0.3009	0.3212	-----	0.316	9.59	0.998	0.999	5.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1465	-----	0.1275	0.1444	0.1614	0.1696	0.1709	0.1880	-----	0.158	9.51	0.995	0.999	13	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0569	1.3226	1.0839	1.1508	1.0750	1.0811	1.0747	1.1539	-----	1.12	9.76	0.999	0.999	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0852	1.3089	1.1317	1.1904	1.1124	1.1218	1.1157	1.1831	-----	1.16	9.81	0.998	0.999	6.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9700	1.1316	0.9819	1.0462	1.0058	1.0123	1.0085	1.0757	-----	1.03	9.98	0.998	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2274	1.3361	1.2252	1.3058	1.2685	1.2761	1.2674	1.3350	1.3302	1.29	10.36	0.999	1.00	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1794	1.3372	1.1545	1.2654	1.2279	1.2419	1.2395	1.3159	-----	1.25	11.08	0.998	0.999	5.0	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3425	1.5795	1.3532	1.4564	1.3660	1.4120	1.3773	1.4796	-----	1.42	11.35	0.997	0.999	5.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.8637	0.5998	0.7949	0.8728	0.8392	0.8118	0.7419	0.7427	-----	0.783	11.24	0.995	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6896	0.7610	0.6634	0.7203	0.7117	0.7405	0.7274	0.8094	-----	0.728	11.53	0.994	0.998	6.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.89

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101503 0078

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2756	0.3171	0.2635	0.2916	0.2873	0.3095	0.3076	0.3362	-----	0.299	11.47	0.995	0.999	7.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4820	0.5019	0.4565	0.5117	0.5037	0.5259	0.5205	0.5631	-----	0.508	11.86	0.997	0.999	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.6120	0.6600	0.5883	0.6450	0.6257	0.6534	0.6368	0.6876	-----	0.639	12.12	0.997	0.999	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4420	0.3967	0.4032	0.4494	0.4539	0.4863	0.4764	0.5123	-----	0.453	12.22	0.997	0.999	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.5102	0.4727	0.4651	0.5274	0.5214	0.5286	0.5205	0.5432	-----	0.511	12.75	0.999	1.00	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2223	1.4895	1.2087	1.3304	1.2592	1.3064	1.3113	1.3974	-----	1.32	12.77	0.997	0.999	7.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1988	1.4765	1.1922	1.3003	1.2121	1.2746	1.2456	1.3214	-----	1.28	12.81	0.998	0.999	7.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8419	0.9000	0.8254	0.8867	0.8458	0.8765	0.8485	0.8998	-----	0.866	12.82	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.3490	1.3506	1.2859	1.4289	1.3837	1.4394	1.4057	1.5206	-----	1.40	13.59	0.998	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1129	1.3328	1.1065	1.1876	1.1656	1.2585	1.2462	1.3528	-----	1.22	14.01	0.996	0.999	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0653	1.2673	1.0045	1.1518	1.1620	1.1882	1.0676	1.1696	-----	1.13	14.04	0.996	0.996	7.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1083	1.2291	1.0599	1.1667	1.1452	1.1973	1.1826	1.3015	-----	1.17	14.37	0.995	0.998	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1874	1.3040	1.1362	1.2352	1.2431	1.3064	1.2992	1.4177	-----	1.27	15.78	0.996	0.999	6.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0061	1.0903	0.9675	1.0481	1.0473	1.1124	1.1097	1.2139	-----	1.07	15.81	0.995	0.999	7.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9984	1.1454	0.9675	1.0393	1.0259	1.0676	1.0556	1.1438	-----	1.06	16.17	0.996	0.999	6.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.89
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109074.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2021 8:55:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.80	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.84	46.05	50	**		1.056	0.973	7.90	
Pyridine	1	0		3.31	48.18	50	**		2.205	2.125	3.63	
N-Nitrosodimethylamine	1	0		3.25	49.95	50	**		1.606	1.604	0.10	
2-Fluorophenol	1	0	S	4.78	46.63	50	**		2.491	2.323	6.75	
Benzaldehyde	1	0		5.60	48.15	50	20	0.01	2.121	2.043	3.71	
Aniline	1	0		5.69	47.10	50	**		4.032	3.798	5.80	
Pentachloroethane	1	0		5.73	44.64	50	**	0.05	0.898	0.802	10.73	
bis(2-Chloroethyl)ether	1	0		5.74	46.34	50	20	0.7	2.620	2.429	7.31	
Phenol-d5	1	0	S	5.65	48.83	50	**		2.973	2.904	2.34	
Phenol	1	0		5.66	48.17	50	20	0.8	3.647	3.514	3.65	
2-Chlorophenol	1	0		5.79	45.83	50	20	0.8	2.763	2.533	8.33	
N-Decane	1	0		5.82	53.48	50	**	0.05	2.428	2.596	6.95	
1,3-Dichlorobenzene	1	0		5.92	43.69	50	**		3.097	2.706	12.62	
1,4-Dichlorobenzene-d4	1	0	I	5.97	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.98	46.70	50	20		1.628	1.521	6.60	
1,2-Dichlorobenzene	1	0		6.11	46.50	50	**		1.546	1.438	7.00	
Benzyl alcohol	1	0		6.08	51.08	50	**		0.923	0.943	2.16	
bis(2-chloroisopropyl)ether	1	0		6.18	59.26	50	20	0.01	1.547	1.833	18.52	
2-Methylphenol	1	0		6.17	51.83	50	20	0.7	1.266	1.312	3.66	
Acetophenone	1	0		6.30	50.43	50	20	0.01	1.804	1.820	0.87	
Hexachloroethane	1	0		6.38	47.46	50	20	0.3	0.574	0.545	5.08	
N-Nitroso-di-n-propylamine	1	0		6.29	55.81	50	20	0.5	0.886	0.989	11.62	
3&4-Methylphenol	1	0		6.29	53.22	50	20		1.294	1.377	6.43	
Naphthalene-d8	1	0	I	6.98	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.42	25.17	25	**		0.156	0.157	0.67	
Nitrobenzene	1	0		6.43	52.53	50	20	0.2	0.340	0.358	5.07	
Isophorone	1	0		6.61	52.75	50	20	0.4	0.637	0.672	5.49	
2-Nitrophenol	1	0		6.68	51.28	50	20	0.1	0.183	0.187	2.57	
2,4-Dimethylphenol	1	0		6.70	51.80	50	20	0.2	0.330	0.342	3.59	
Benzoic Acid	1	0		6.75	48.82	50	**		0.189	0.173	2.36	
bis(2-Chloroethoxy)methane	1	0		6.77	51.05	50	20	0.3	0.387	0.395	2.11	
2,4-Dichlorophenol	1	0		6.86	49.94	50	20	0.2	0.284	0.284	0.11	
1,2,4-Trichlorobenzene	1	0		6.93	46.19	50	**		0.334	0.309	7.61	
Naphthalene	1	0		7.00	47.28	50	20	0.7	1.109	1.049	5.44	
4-Chloroaniline	1	0		7.03	49.97	50	20	0.01	0.416	0.416	0.06	
Hexachlorobutadiene	1	0		7.08	45.02	50	20	0.01	0.200	0.180	9.96	
Caprolactam	1	0		7.30	54.09	50	20	0.01	0.098	0.106	8.18	
4-Chloro-3-methylphenol	1	0		7.40	51.59	50	20	0.2	0.277	0.286	3.17	
2-Methylnaphthalene	1	0		7.54	49.07	50	**	0.4	0.711	0.698	1.85	
1-Methylnaphthalene	1	0		7.62	48.77	50	**	0.4	0.667	0.650	2.45	
Methylnaphthalenes	1	0		7.54	97.78	50	**			1.343	95.57	
1,1'-Biphenyl	1	0		7.91	48.30	50	20	0.01	0.841	0.812	3.39	
Acenaphthene-d10	1	0	I	8.43	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.67	45.66	50	20	0.01	0.696	0.635	8.68	
Hexachlorocyclopentadiene	1	0		7.65	34.96	50	20	0.05	0.397	0.266	30.08	C1
2,4,6-Trichlorophenol	1	0		7.76	47.82	50	20	0.2	0.426	0.407	4.37	
2,4,5-Trichlorophenol	1	0		7.79	48.12	50	20	0.2	0.446	0.429	3.76	
2-Fluorobiphenyl	1	0	S	7.82	23.59	25	**		1.513	1.427	5.65	
2-Chloronaphthalene	1	0		7.94	46.86	50	20	0.8	1.311	1.229	6.29	
1,4-Dimethylnaphthalene	1	0		8.22	48.19	50	**		1.037	1.000	3.62	
Dimethylnaphthalenes	1	0		8.22	48.19	50	20			1.000	3.62	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109074.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2021 8:55:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.00	47.69	50	**		0.923	0.881	4.62	
2-Nitroaniline	1	0		8.02	56.63	50	20	0.01	0.387	0.439	13.26	
Coumarin	1	0		8.21	48.44		**		0.508			
Acenaphthylene	1	0		8.31	48.85	50	20	0.9	1.990	1.944	2.30	
Dimethylphthalate	1	0		8.16	47.16	50	20	0.01	1.441	1.359	5.67	
2,6-Dinitrotoluene	1	0		8.22	50.66	50	20	0.2	0.317	0.321	1.32	
Acenaphthene	1	0		8.46	48.50	50	20	0.9	1.276	1.237	3.00	
3-Nitroaniline	1	0		8.38	50.31	50	20	0.01	0.366	0.368	0.62	
2,4-Dinitrophenol	1	0		8.47	48.70	50	20	0.2	0.162	0.147	2.60	
Dibenzofuran	1	0		8.62	46.41	50	20	0.8	1.895	1.759	7.17	
2,4-Dinitrotoluene	1	0		8.59	50.44	50	20	0.2	0.413	0.415	0.87	
4-Nitrophenol	1	0		8.51	55.17	50	20	0.01	0.222	0.252	10.34	
2,3,4,6-Tetrachlorophenol	1	0		8.72	47.70	50	20	0.01	0.408	0.389	4.59	
Fluorene	1	0		8.94	48.14	50	20	0.9	1.469	1.414	3.72	
4-Chlorophenyl-phenylether	1	0		8.93	46.44	50	20	0.4	0.772	0.717	7.12	
Diethylphthalate	1	0		8.80	47.57	50	20	0.01	1.369	1.302	4.86	
4-Nitroaniline	1	0		8.95	52.54	50	20	0.01	0.385	0.401	5.09	
Atrazine	1	0		9.58	49.32	50	20	0.01	0.399	0.394	1.36	
Phenanthrene-d10	1	0	I	9.91	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.98	49.30	50	20	0.01	0.120	0.115	1.39	
n-Nitrosodiphenylamine	1	0		9.04	49.74	50	20	0.01	0.645	0.642	0.51	
2,4,6-Tribromophenol	1	0	S	9.18	55.25	50	**		0.140	0.150	10.50	
1,2-Diphenylhydrazine	1	0		9.09	58.21	50	**		0.684	0.796	16.42	
4-Bromophenyl-phenylether	1	0		9.42	48.25	50	20	0.1	0.258	0.249	3.51	
Hexachlorobenzene	1	0		9.50	47.86	50	20	0.1	0.314	0.301	4.28	
N-Octadecane	1	0		9.75	63.67	50	**	0.05	0.353	0.449	27.34	
Pentachlorophenol	1	0		9.70	46.46	50	20	0.05	0.181	0.157	7.07	
Phenanthrene	1	0		9.94	47.91	50	20	0.7	1.118	1.071	4.18	
Anthracene	1	0		10.00	49.20	50	20	0.7	1.119	1.102	1.60	
Carbazole	1	0		10.17	50.23	50	20	0.01	1.021	1.026	0.45	
Di-n-butylphthalate	1	0		10.53	52.81	50	20	0.01	1.068	1.167	5.62	
Fluoranthene	1	0		11.28	49.77	50	20	0.6	1.210	1.205	0.46	
Chrysene-d12	1	0	I	12.99	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.55	47.47	50	20	0.6	1.187	1.127	5.06	
Benzidine	1	0		11.44	45.13	50	**		0.671	0.618	9.73	
Terphenyl-d14	1	0	S	11.72	23.41	25	**		0.701	0.657	6.34	
4,4'-DDE	1	0		11.65	45.91		**		0.259			
4,4'-DDD	1	0		12.06	49.60		**		0.427			
Butylbenzylphthalate	1	0		12.31	53.27	50	20	0.01	0.433	0.463	6.54	
4,4'-DDT	1	0		12.42	48.48		**		0.391			
3,3'-Dichlorobenzidine	1	0		12.94	50.91	50	20	0.01	0.477	0.499	1.82	
Benzo[a]anthracene	1	0		12.98	47.58	50	20	0.8	1.206	1.147	4.84	
Chrysene	1	0		13.02	46.28	50	20	0.7	1.201	1.112	7.45	
bis(2-Ethylhexyl)phthalate	1	0		12.99	54.34	50	20	0.01	0.618	0.680	8.67	
Perylene-d12	1	0	I	14.64	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.75	56.34	50	20	0.01	0.826	0.969	12.67	
Benzo[b]fluoranthene	1	0		14.20	48.19	50	20	0.7	1.100	1.060	3.62	
Benzo[k]fluoranthene	1	0		14.23	41.09	50	20	0.7	1.135	0.932	17.82	
Benzo[a]pyrene	1	0		14.58	47.45	50	20	0.7	1.070	1.015	5.11	
Indeno[1,2,3-cd]pyrene	1	0		16.05	47.64	50	20	0.5	1.273	1.213	4.71	
Dibenzo[a,h]anthracene	1	0		16.08	47.89	50	20	0.4	1.083	1.037	4.21	
Benzo[g,h,i]perylene	1	0		16.47	46.74	50	20	0.5	1.059	0.990	6.52	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109074.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2021 8:55:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.687	0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.037	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117400.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/26/2021 9:00:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	46.28	50	**		1.077	0.997	7.45	
Pyridine	1	0		3.06	47.50	50	**		2.175	2.066	5.00	
N-Nitrosodimethylamine	1	0		3.02	50.18	50	**		1.564	1.570	0.35	
2-Fluorophenol	1	0	S	4.61	52.30	50	**		2.603	2.723	4.60	
Benzaldehyde	1	0		5.44	53.51	50	20	0.01	2.073	2.218	7.01	
Aniline	1	0		5.53	50.63	50	**		4.096	4.147	1.26	
Pentachloroethane	1	0		5.57	51.45	50	**	0.05	0.984	1.013	2.90	
bis(2-Chloroethyl)ether	1	0		5.59	50.23	50	20	0.7	2.629	2.641	0.46	
Phenol-d5	1	0	S	5.49	53.02	50	**		3.077	3.263	6.04	
Phenol	1	0		5.50	51.75	50	20	0.8	3.683	3.813	3.50	
2-Chlorophenol	1	0		5.63	52.85	50	20	0.8	2.952	3.120	5.70	
N-Decane	1	0		5.67	49.59	50	**	0.05	2.053	2.036	0.83	
1,3-Dichlorobenzene	1	0		5.76	52.62	50	**		3.350	3.526	5.25	
1,4-Dichlorobenzene-d4	1	0	I	5.81	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.82	46.76	50	20		1.619	1.514	6.47	
1,2-Dichlorobenzene	1	0		5.95	47.79	50	**		1.520	1.453	4.43	
Benzyl alcohol	1	0		5.92	48.06	50	**		0.904	0.869	3.87	
bis(2-chloroisopropyl)ether	1	0		6.03	46.51	50	20	0.01	1.046	0.973	6.99	
2-Methylphenol	1	0		6.01	47.21	50	20	0.7	1.228	1.159	5.59	
Acetophenone	1	0		6.14	47.45	50	20	0.01	1.822	1.729	5.10	
Hexachloroethane	1	0		6.22	46.49	50	20	0.3	0.589	0.547	7.02	
N-Nitroso-di-n-propylamine	1	0		6.14	45.59	50	20	0.5	0.884	0.806	8.81	
3&4-Methylphenol	1	0		6.13	48.43	50	20		1.262	1.222	3.13	
Naphthalene-d8	1	0	I	6.82	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.26	24.59	25	**		0.160	0.157	1.63	
Nitrobenzene	1	0		6.27	47.95	50	20	0.2	0.327	0.313	4.10	
Isophorone	1	0		6.46	47.71	50	20	0.4	0.627	0.599	4.58	
2-Nitrophenol	1	0		6.52	50.06	50	20	0.1	0.192	0.193	0.12	
2,4-Dimethylphenol	1	0		6.54	47.71	50	20	0.2	0.352	0.336	4.58	
Benzoic Acid	1	0		6.61	43.18	50	**		0.237	0.200	13.64	
bis(2-Chloroethoxy)methane	1	0		6.62	46.52	50	20	0.3	0.368	0.342	6.95	
2,4-Dichlorophenol	1	0		6.70	50.00	50	20	0.2	0.298	0.298	0.01	
1,2,4-Trichlorobenzene	1	0		6.77	47.88	50	**		0.339	0.325	4.24	
Naphthalene	1	0		6.84	46.61	50	20	0.7	1.062	0.990	6.79	
4-Chloroaniline	1	0		6.87	46.43	50	20	0.01	0.430	0.399	7.15	
Hexachlorobutadiene	1	0		6.92	47.98	50	20	0.01	0.203	0.195	4.03	
Caprolactam	1	0		7.15	46.53	50	20	0.01	0.110	0.102	6.94	
4-Chloro-3-methylphenol	1	0		7.23	48.66	50	20	0.2	0.297	0.289	2.68	
2-Methylnaphthalene	1	0		7.37	49.04	50	**	0.4	0.740	0.726	1.92	
1-Methylnaphthalene	1	0		7.45	48.70	50	**	0.4	0.687	0.670	2.60	
Methylnaphthalenes	1	0		7.37	97.73	50	**			1.395	95.46	
1,1'-Biphenyl	1	0		7.75	48.57	50	20	0.01	0.884	0.859	2.86	
Acenaphthene-d10	1	0	I	8.25	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.50	47.40	50	20	0.01	0.647	0.614	5.20	
Hexachlorocyclopentadiene	1	0		7.49	48.77	50	20	0.05	0.372	0.363	2.46	
2,4,6-Trichlorophenol	1	0		7.59	47.81	50	20	0.2	0.448	0.429	4.38	
2,4,5-Trichlorophenol	1	0		7.62	48.79	50	20	0.2	0.455	0.444	2.42	
2-Fluorobiphenyl	1	0	S	7.66	23.64	25	**		1.496	1.414	5.43	
2-Chloronaphthalene	1	0		7.77	47.35	50	20	0.8	1.277	1.210	5.29	
1,4-Dimethylnaphthalene	1	0		8.05	46.67	50	**		1.044	0.975	6.65	
Dimethylnaphthalenes	1	0		8.05	46.67	50	20			0.975	6.65	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117400.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/26/2021 9:00:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.83	47.49	50	**		0.909	0.863	5.01	
2-Nitroaniline	1	0		7.85	47.91	50	20	0.01	0.363	0.347	4.18	
Coumarin	1	0		8.03	48.37		**		0.502			
Acenaphthylene	1	0		8.13	47.31	50	20	0.9	2.018	1.909	5.39	
Dimethylphthalate	1	0		7.99	47.38	50	20	0.01	1.515	1.435	5.24	
2,6-Dinitrotoluene	1	0		8.05	48.21	50	20	0.2	0.341	0.328	3.58	
Acenaphthene	1	0		8.28	46.27	50	20	0.9	1.281	1.185	7.45	
3-Nitroaniline	1	0		8.20	48.63	50	20	0.01	0.371	0.361	2.74	
2,4-Dinitrophenol	1	0		8.29	49.96	50	20	0.2	0.178	0.178	0.08	
Dibenzofuran	1	0		8.43	46.69	50	20	0.8	1.902	1.776	6.61	
2,4-Dinitrotoluene	1	0		8.41	49.62	50	20	0.2	0.453	0.450	0.75	
4-Nitrophenol	1	0		8.32	50.08	50	20	0.01	0.223	0.227	0.16	
2,3,4,6-Tetrachlorophenol	1	0		8.54	48.36	50	20	0.01	0.402	0.389	3.28	
Fluorene	1	0		8.76	47.54	50	20	0.9	1.519	1.444	4.92	
4-Chlorophenyl-phenylether	1	0		8.75	47.46	50	20	0.4	0.767	0.728	5.08	
Diethylphthalate	1	0		8.63	46.53	50	20	0.01	1.539	1.432	6.93	
4-Nitroaniline	1	0		8.77	48.04	50	20	0.01	0.392	0.376	3.91	
Atrazine	1	0		9.40	47.59	50	20	0.01	0.453	0.431	4.82	
Phenanthrene-d10	1	0	I	9.71	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.79	49.52	50	20	0.01	0.127	0.125	0.97	
n-Nitrosodiphenylamine	1	0		8.86	47.39	50	20	0.01	0.651	0.617	5.21	
2,4,6-Tribromophenol	1	0	S	8.99	49.87	50	**		0.113	0.113	0.26	
1,2-Diphenylhydrazine	1	0		8.90	48.03	50	**		0.665	0.638	3.95	
4-Bromophenyl-phenylether	1	0		9.24	48.08	50	20	0.1	0.233	0.224	3.84	
Hexachlorobenzene	1	0		9.30	47.55	50	20	0.1	0.249	0.237	4.91	
N-Octadecane	1	0		9.57	46.05	50	**	0.05	0.316	0.291	7.89	
Pentachlorophenol	1	0		9.50	47.77	50	20	0.05	0.158	0.151	4.47	
Phenanthrene	1	0		9.74	46.89	50	20	0.7	1.125	1.055	6.22	
Anthracene	1	0		9.80	47.51	50	20	0.7	1.156	1.099	4.97	
Carbazole	1	0		9.97	47.22	50	20	0.01	1.029	0.972	5.56	
Di-n-butylphthalate	1	0		10.35	47.09	50	20	0.01	1.286	1.211	5.82	
Fluoranthene	1	0		11.08	48.00	50	20	0.6	1.245	1.195	4.01	
Chrysene-d12	1	0	I	12.78	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.34	47.33	50	20	0.6	1.421	1.345	5.33	
Benzidine	1	0		11.24	48.79	50	**		0.783	0.764	2.41	
Terphenyl-d14	1	0	S	11.52	23.75	25	**		0.728	0.692	4.98	
4,4'-DDE	1	0		11.46	46.32		**		0.299			
4,4'-DDD	1	0		11.86	48.15		**		0.508			
Butylbenzylphthalate	1	0		12.12	46.79	50	20	0.01	0.639	0.598	6.41	
4,4'-DDT	1	0		12.22	50.05		**		0.453			
3,3'-Dichlorobenzidine	1	0		12.74	49.57	50	20	0.01	0.511	0.507	0.85	
Benzo[a]anthracene	1	0		12.76	46.09	50	20	0.8	1.316	1.213	7.82	
Chrysene	1	0		12.81	46.21	50	20	0.7	1.278	1.181	7.59	
bis(2-Ethylhexyl)phthalate	1	0		12.82	47.12	50	20	0.01	0.866	0.816	5.76	
Perylene-d12	1	0	I	14.41	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	48.76	50	20	0.01	1.396	1.361	2.48	
Benzo[b]fluoranthene	1	0		13.99	46.51	50	20	0.7	1.220	1.135	6.97	
Benzo[k]fluoranthene	1	0		14.03	48.46	50	20	0.7	1.135	1.100	3.08	
Benzo[a]pyrene	1	0		14.35	47.97	50	20	0.7	1.174	1.126	4.05	
Indeno[1,2,3-cd]pyrene	1	0		15.76	46.06	50	20	0.5	1.266	1.166	7.89	
Dibenzo[a,h]anthracene	1	0		15.78	46.36	50	20	0.4	1.074	0.996	7.27	
Benzo[g,h,i]perylene	1	0		16.15	45.52	50	20	0.5	1.055	0.961	8.96	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117400.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/26/2021 9:00:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.714	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.044	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118280.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/26/2021 11:19:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.57	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	48.98	50	**		1.034	1.013	2.05	
Pyridine	1	0		3.05	44.76	50	**		2.110	1.889	10.48	
N-Nitrosodimethylamine	1	0		3.00	47.22	50	**		1.513	1.429	5.55	
2-Fluorophenol	1	0	S	4.59	48.75	50	**		1.544	1.506	2.50	
Benzaldehyde	1	0		5.42	47.35	50	20	0.01	1.312	1.242	5.30	
Aniline	1	0		5.51	48.13	50	**		2.527	2.433	3.74	
Pentachloroethane	1	0		5.55	48.75	50	**	0.05	0.596	0.581	2.50	
bis(2-Chloroethyl)ether	1	0		5.57	48.36	50	20	0.7	1.729	1.673	3.28	
Phenol-d5	1	0	S	5.47	48.22	50	**		1.924	1.856	3.57	
Phenol	1	0		5.49	48.59	50	20	0.8	2.331	2.265	2.82	
2-Chlorophenol	1	0		5.61	49.62	50	20	0.8	1.757	1.744	0.76	
N-Decane	1	0		5.65	47.87	50	**	0.05	1.565	1.498	4.27	
1,3-Dichlorobenzene	1	0		5.74	48.12	50	**		1.980	1.905	3.77	
1,4-Dichlorobenzene-d4	1	0	I	5.80	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.81	47.58	50	20		1.644	1.565	4.83	
1,2-Dichlorobenzene	1	0		5.93	46.56	50	**		1.541	1.435	6.89	
Benzyl alcohol	1	0		5.91	48.89	50	**		0.895	0.875	2.21	
bis(2-chloroisopropyl)ether	1	0		6.02	46.96	50	20	0.01	1.422	1.336	6.07	
2-Methylphenol	1	0		5.99	49.43	50	20	0.7	1.237	1.223	1.13	
Acetophenone	1	0		6.12	50.99	50	20	0.01	1.807	1.842	1.97	
Hexachloroethane	1	0		6.21	47.37	50	20	0.3	0.595	0.564	5.25	
N-Nitroso-di-n-propylamine	1	0		6.12	52.87	50	20	0.5	0.844	0.892	5.74	
3&4-Methylphenol	1	0		6.12	52.41	50	20		1.284	1.346	4.81	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	24.06	25	**		0.147	0.141	3.75	
Nitrobenzene	1	0		6.26	47.96	50	20	0.2	0.325	0.312	4.08	
Isophorone	1	0		6.45	49.19	50	20	0.4	0.624	0.614	1.63	
2-Nitrophenol	1	0		6.51	48.80	50	20	0.1	0.175	0.168	2.41	
2,4-Dimethylphenol	1	0		6.53	49.69	50	20	0.2	0.336	0.334	0.62	
Benzoic Acid	1	0		6.59	18.61	50	**		0.172	0.058	62.77	
bis(2-Chloroethoxy)methane	1	0		6.61	47.21	50	20	0.3	0.403	0.380	5.58	
2,4-Dichlorophenol	1	0		6.69	50.44	50	20	0.2	0.286	0.289	0.88	
1,2,4-Trichlorobenzene	1	0		6.76	47.60	50	**		0.351	0.334	4.81	
Naphthalene	1	0		6.82	46.58	50	20	0.7	1.077	1.003	6.85	
4-Chloroaniline	1	0		6.85	48.57	50	20	0.01	0.410	0.398	2.85	
Hexachlorobutadiene	1	0		6.90	47.53	50	20	0.01	0.204	0.194	4.94	
Caprolactam	1	0		7.13	51.86	50	20	0.01	0.093	0.090	3.71	
4-Chloro-3-methylphenol	1	0		7.22	48.48	50	20	0.2	0.274	0.266	3.04	
2-Methylnaphthalene	1	0		7.35	48.21	50	**	0.4	0.726	0.700	3.57	
1-Methylnaphthalene	1	0		7.43	47.92	50	**	0.4	0.678	0.650	4.17	
Methylnaphthalenes	1	0		7.35	96.32	50	**			1.344	92.65	
1,1'-Biphenyl	1	0		7.72	47.49	50	20	0.01	0.864	0.821	5.02	
Acenaphthene-d10	1	0	I	8.23	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.48	47.34	50	20	0.01	0.702	0.665	5.32	
Hexachlorocyclopentadiene	1	0		7.47	48.71	50	20	0.05	0.386	0.373	2.59	
2,4,6-Trichlorophenol	1	0		7.57	48.88	50	20	0.2	0.415	0.406	2.25	
2,4,5-Trichlorophenol	1	0		7.60	48.28	50	20	0.2	0.441	0.426	3.45	
2-Fluorobiphenyl	1	0	S	7.64	23.63	25	**		1.445	1.366	5.48	
2-Chloronaphthalene	1	0		7.75	47.29	50	20	0.8	1.325	1.253	5.42	
1,4-Dimethylnaphthalene	1	0		8.02	48.29	50	**		1.077	1.040	3.42	
Dimethylnaphthalenes	1	0		8.02	48.29	50	20			1.040	3.42	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118280.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/26/2021 11:19:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.81	46.49	50	**		0.914	0.850	7.01	
2-Nitroaniline	1	0		7.83	49.39	50	20	0.01	0.355	0.357	1.21	
Coumarin	1	0		8.01	48.34		**		0.499			
Acenaphthylene	1	0		8.10	46.82	50	20	0.9	1.962	1.837	6.36	
Dimethylphthalate	1	0		7.97	47.95	50	20	0.01	1.421	1.363	4.09	
2,6-Dinitrotoluene	1	0		8.03	50.35	50	20	0.2	0.315	0.317	0.70	
Acenaphthene	1	0		8.25	45.75	50	20	0.9	1.310	1.199	8.51	
3-Nitroaniline	1	0		8.18	48.65	50	20	0.01	0.338	0.329	2.71	
2,4-Dinitrophenol	1	0		8.27	45.98	50	20	0.2	0.135	0.109	8.04	
Dibenzofuran	1	0		8.41	45.83	50	20	0.8	1.865	1.709	8.34	
2,4-Dinitrotoluene	1	0		8.39	47.90	50	20	0.2	0.392	0.376	4.19	
4-Nitrophenol	1	0		8.30	47.60	50	20	0.01	0.199	0.201	4.81	
2,3,4,6-Tetrachlorophenol	1	0		8.51	48.74	50	20	0.01	0.375	0.353	2.52	
Fluorene	1	0		8.73	47.31	50	20	0.9	1.506	1.425	5.38	
4-Chlorophenyl-phenylether	1	0		8.72	48.08	50	20	0.4	0.759	0.730	3.85	
Diethylphthalate	1	0		8.60	46.79	50	20	0.01	1.346	1.260	6.41	
4-Nitroaniline	1	0		8.74	47.80	50	20	0.01	0.361	0.352	4.40	
Atrazine	1	0		9.36	49.90	50	20	0.01	0.388	0.375	0.21	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	49.60	50	20	0.01	0.108	0.099	0.79	
n-Nitrosodiphenylamine	1	0		8.83	48.22	50	20	0.01	0.655	0.632	3.56	
2,4,6-Tribromophenol	1	0	S	8.96	50.94	50	**		0.104	0.106	1.87	
1,2-Diphenylhydrazine	1	0		8.87	50.97	50	**		0.704	0.718	1.93	
4-Bromophenyl-phenylether	1	0		9.21	48.76	50	20	0.1	0.228	0.222	2.48	
Hexachlorobenzene	1	0		9.27	49.07	50	20	0.1	0.247	0.242	1.86	
N-Octadecane	1	0		9.53	50.79	50	**	0.05	0.357	0.363	1.59	
Pentachlorophenol	1	0		9.47	50.86	50	20	0.05	0.140	0.135	1.72	
Phenanthrene	1	0		9.71	46.11	50	20	0.7	1.157	1.067	7.78	
Anthracene	1	0		9.76	48.77	50	20	0.7	1.158	1.129	2.47	
Carbazole	1	0		9.94	47.18	50	20	0.01	1.039	0.981	5.65	
Di-n-butylphthalate	1	0		10.31	49.06	50	20	0.01	1.086	1.138	1.88	
Fluoranthene	1	0		11.04	48.65	50	20	0.6	1.237	1.204	2.71	
Chrysene-d12	1	0	I	12.73	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.30	47.44	50	20	0.6	1.382	1.311	5.12	
Benzidine	1	0		11.20	46.45	50	**		0.702	0.680	7.10	
Terphenyl-d14	1	0	S	11.48	23.80	25	**		0.665	0.633	4.81	
4,4'-DDE	1	0		11.42	47.08		**		0.276			
4,4'-DDD	1	0		11.82	49.92		**		0.454			
Butylbenzylphthalate	1	0		12.08	47.27	50	20	0.01	0.477	0.494	5.46	
4,4'-DDT	1	0		12.17	50.39		**		0.412			
3,3'-Dichlorobenzidine	1	0		12.70	50.07	50	20	0.01	0.446	0.462	0.15	
Benzo[a]anthracene	1	0		12.72	48.47	50	20	0.8	1.328	1.287	3.07	
Chrysene	1	0		12.77	48.35	50	20	0.7	1.327	1.283	3.30	
bis(2-Ethylhexyl)phthalate	1	0		12.77	49.45	50	20	0.01	0.733	0.783	1.11	
Perylene-d12	1	0	I	14.35	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.51	46.47	50	20	0.01	1.093	1.066	7.07	
Benzo[b]fluoranthene	1	0		13.94	47.97	50	20	0.7	1.212	1.163	4.06	
Benzo[k]fluoranthene	1	0		13.97	48.65	50	20	0.7	1.221	1.188	2.71	
Benzo[a]pyrene	1	0		14.29	48.71	50	20	0.7	1.138	1.060	2.59	
Indeno[1,2,3-cd]pyrene	1	0		15.66	51.37	50	20	0.5	1.296	1.253	2.75	
Dibenzo[a,h]anthracene	1	0		15.68	47.94	50	20	0.4	1.084	1.039	4.12	
Benzo[g,h,i]perylene	1	0		16.03	47.74	50	20	0.5	1.075	1.026	4.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118280.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/26/2021 11:19:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.698	0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.077	0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118179.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 09:46

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	63296	2.56	77040	5.80	293898	6.80	151485	8.23	287097	9.68	268402	12.73	280818	14.35
Eval File Area Limit:	31648-126592		38520-154080		146949-587796		75742-302970		143548-574194		134201-536804		140409-561636	
Eval File Rt Limit:	2.06-3.06		5.3-6.3		6.3-7.3		7.73-8.73		9.18-10.18		12.23-13.23		13.85-14.85	

Data File	Sample													
5M118179.D	CAL BNA@50PPM	63296	2.56	77040	5.80	293898	6.80	151485	8.23	287097	9.68	268402	12.73	280818	14.35
5M118180.D	CAL BNA@10PPM	58584	2.56	72909	5.80	288576	6.80	149160	8.22	284358	9.68	252652	12.73	264012	14.34
5M118181.D	CAL BNA@2PPM	76929	2.56	99683	5.80	399603	6.80	201059	8.22	380256	9.68	331595	12.73	348704	14.35
5M118182.D	CAL BNA@196PPM	56266	2.56	65981	5.80	257365	6.80	133515	8.23	253430	9.68	251230	12.74	258254	14.35
5M118183.D	CAL BNA@160PPM	60654	2.56	74436	5.80	280789	6.80	142278	8.23	275606	9.68	270868	12.74	272679	14.35
5M118184.D	CAL BNA@120PPM	76476	2.56	90353	5.80	344669	6.81	174310	8.23	331203	9.68	326582	12.74	337948	14.35
5M118185.D	CAL BNA@80PPM	64875	2.56	79673	5.80	301407	6.80	152512	8.23	291397	9.68	280378	12.74	296285	14.35
5M118186.D	CAL BNA@20PPM	63048	2.56	80375	5.80	309606	6.80	158682	8.23	299988	9.68	274859	12.73	287473	14.35
5M118187.D	CAL BNA@0.5PPM	63196	2.56	80953	5.80	310870	6.80	159598	8.22	305634	9.68	260399	12.73	271408	14.34
5M118188.D	ICV BNA@50PPM	85295	2.56	106545	5.80	408594	6.80	210741	8.23	402355	9.68	382654	12.73	395717	14.35
5M118189.D	AD26497-008	65733	2.56	82859	5.80	319432	6.80	164496	8.22	312769	9.68	264336	12.73	282902	14.35
5M118190.D	AD26497-007	88955	2.56	111050	5.80	445844	6.80	223358	8.22	426733	9.68	380919	12.73	401938	14.35
5M118191.D	AD26509-002	82699	2.56	106386	5.79	423577	6.80	213165	8.22	394516	9.68	340772	12.73	365617	14.35
5M118192.D	AD26509-001	91142	2.56	107847	5.80	431734	6.80	221583	8.22	418025	9.68	362363	12.73	393343	14.35
5M118193.D	AD26503-021	54624	2.56	69330	5.80	274672	6.80	137287	8.22	261172	9.68	224115	12.73	236660	14.34
5M118194.D	AD26497-007(MS)	77237	2.56	95980	5.80	366959	6.80	182546	8.23	348210	9.68	334362	12.73	341671	14.35
5M118195.D	AD26497-007(MSD)	80154	2.56	97342	5.80	376263	6.80	189117	8.23	361692	9.68	339154	12.74	348393	14.35
5M118196.D	WMB95219	77171	2.56	98377	5.79	381120	6.80	195575	8.22	365724	9.68	318806	12.73	339412	14.35

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 9M108717.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 12:21

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
Eval File Area Limit:	17714-70856		35041-140164		137126-548506		70144-280574		139070-556280		150900-603598		183194-732774	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.92-8.92		9.41-10.41		12.48-13.48		14.12-15.12	

Data File	Sample													
9M108709.D	CAL BNA@10PPM	34700	2.80	65516	5.97	265228	6.98	135831	8.42	265051	9.91	277168	12.97	315415	14.62
9M108710.D	CAL BNA@2PPM	33605	2.80	64419	5.97	257112	6.98	131833	8.43	257795	9.91	257309	12.98	296713	14.62
9M108711.D	CAL BNA@196PPM	33719	2.80	61337	5.97	241868	6.98	122453	8.43	237938	9.91	260650	12.98	294177	14.63
9M108712.D	CAL BNA@160PPM	35996	2.80	69124	5.97	273936	6.98	136523	8.43	268756	9.91	289705	12.98	328313	14.63
9M108713.D	CAL BNA@120PPM	36366	2.80	70288	5.97	277888	6.98	139013	8.43	273562	9.91	299304	12.98	341975	14.62
9M108714.D	CAL BNA@80PPM	34771	2.80	68655	5.97	273996	6.98	139209	8.42	273683	9.91	297476	12.98	340499	14.62
9M108715.D	CAL BNA@20PPM	33643	2.80	67821	5.97	265945	6.98	135364	8.42	268679	9.91	287171	12.97	330844	14.62
9M108716.D	CAL BNA@0.5PPM	34071	2.80	69631	5.97	276011	6.98	142206	8.42	284240	9.91	292603	12.97	342572	14.62
9M108717.D	CAL BNA@50PPM	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
9M108718.D	BNA@50PPM	38344	2.80	80633	5.97	318838	6.98	168953	8.42	330314	9.91	379481	12.98	430917	14.62
9M108719.D	ICV BNA@50PPM	33582	2.80	68739	5.97	271416	6.98	142007	8.42	278344	9.91	312757	12.98	362944	14.62
9M108720.D	SMB95218	28739	2.78	61936	5.97	235735	6.98	126987	8.42	248724	9.91	264781	12.97	293547	14.62
9M108721.D	AD26497-002	30440	2.78	60069	5.97	236959	6.98	119605	8.42	237191	9.91	240972	12.97	275125	14.62
9M108722.D	AD26497-003	31011	2.78	60757	5.97	238028	6.98	120813	8.42	241358	9.91	251407	12.97	289358	14.62
9M108723.D	AD26497-004	29769	2.78	58389	5.97	232738	6.97	119075	8.42	237707	9.91	237789	12.97	269610	14.62
9M108724.D	AD26497-005	26560	2.78	52023	5.97	216264	6.98	111540	8.42	217865	9.91	227780	12.97	251103	14.62
9M108725.D	AD26383-001(30X)	39983	2.80	77364	5.97	308859	6.98	156298	8.42	307008	9.91	306057	12.97	353188	14.62
9M108726.D	OMB95201	41826	2.79	84166	5.97	336183	6.98	174841	8.42	342000	9.91	346831	12.97	402557	14.62
9M108727.D	SMB95218(MS)	32825	2.78	59968	5.97	242111	6.98	127473	8.42	245667	9.91	265171	12.98	300545	14.62
9M108728.D	SMB95225	36430	2.78	62408	5.97	254419	6.97	127919	8.42	249794	9.91	242886	12.97	278357	14.62
9M108729.D	SMB95225(MS)	38021	2.79	64793	5.97	256611	6.98	129476	8.42	248758	9.91	259162	12.98	291042	14.62
9M108730.D	AD26503-007	36325	2.79	71178	5.97	289628	6.98	150146	8.42	292209	9.91	297971	12.97	342955	14.62
9M108731.D	AD26503-002	37755	2.78	72354	5.97	292831	6.98	148836	8.42	289385	9.91	284839	12.97	324736	14.62
9M108732.D	AD26503-015	34657	2.78	65824	5.97	264334	6.98	134547	8.42	262632	9.91	260119	12.97	297499	14.62
9M108733.D	AD26503-009	38291	2.78	70890	5.97	284272	6.98	143538	8.42	279901	9.91	275502	12.97	317033	14.62
9M108734.D	AD26503-005	36106	2.78	67535	5.97	272491	6.98	137941	8.42	268779	9.91	262991	12.97	300659	14.62
9M108735.D	AD26503-001	35619	2.78	67941	5.97	277837	6.98	139921	8.42	269025	9.91	269641	12.97	304637	14.62
9M108736.D	AD26404-001	36637	2.78	70203	5.97	280570	6.98	144648	8.42	268627	9.91	272205	12.97	311237	14.62
9M108737.D	AD26404-001(MS)	36101	2.78	68988	5.97	275510	6.98	138704	8.42	261239	9.91	267946	12.98	306233	14.62
9M108738.D	AD26404-001(MSD)	35416	2.78	67918	5.97	272473	6.98	137290	8.42	258003	9.91	264275	12.98	297844	14.62

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101503 0090

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M117280.D Method: EPA 8270E

Analysis Date/Time: 10/19/21 10:23

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	60254	2.57	123037	5.81	491892	6.83	263335	8.27	529297	9.73	472934	12.78	512896	14.44
Eval File Area Limit:	30127-120508		61518-246074		245946-983784		131668-526670		264648-1058594		236467-945868		256448-1025792	
Eval File Rt Limit:	2.07-3.07		5.31-6.31		6.33-7.33		7.77-8.77		9.23-10.23		12.28-13.28		13.94-14.94	

Data File	Sample													
7M117280.D	CAL BNA@50PPM	60254	2.57	123037	5.81	491892	6.83	263335	8.27	529297	9.73	472934	12.78	512896	14.44
7M117281.D	CAL BNA@10PPM	62006	2.57	130798	5.81	543001	6.82	297090	8.25	595429	9.71	537386	12.78	571949	14.43
7M117282.D	CAL BNA@2PPM	55787	2.57	118033	5.81	476316	6.82	262419	8.26	524072	9.72	467997	12.78	495555	14.44
7M117283.D	CAL BNA@196PPM	57027	2.58	109820	5.81	440432	6.82	239432	8.26	481889	9.73	428097	12.79	455846	14.46
7M117284.D	CAL BNA@160PPM	61182	2.57	127441	5.81	507058	6.82	266924	8.26	537008	9.73	483199	12.79	521915	14.45
7M117285.D	CAL BNA@120PPM	62099	2.58	136182	5.81	533682	6.82	283361	8.25	567742	9.72	499339	12.79	541661	14.44
7M117286.D	CAL BNA@80PPM	56885	2.56	127847	5.81	504854	6.82	268314	8.26	544310	9.72	496062	12.79	537018	14.44
7M117287.D	CAL BNA@20PPM	55039	2.57	122181	5.81	502949	6.82	264448	8.25	527411	9.71	466767	12.78	502145	14.42
7M117288.D	CAL BNA@0.5PPM	63753	2.57	130340	5.81	535207	6.81	298380	8.25	595853	9.71	526986	12.78	565868	14.45
7M117289.D	ICV BNA@50PPM	55000	2.57	118429	5.81	469609	6.82	250759	8.25	511052	9.71	471732	12.78	504559	14.43

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or rnid pt.

1101503 0091

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118280.D Method: EPA 8270E

Analysis Date/Time: 10/26/21 11:19

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	66890	2.57	84589	5.80	330274	6.80	170345	8.23	317887	9.68	306604	12.73	336717	14.35
Eval File Area Limit:	33445-133780		42294-169178		165137-660548		85172-340690		158944-635774		153302-613208		168358-673434	
Eval File Rt Limit:	2.07-3.07		5.3-6.3		6.3-7.3		7.73-8.73		9.18-10.18		12.23-13.23		13.85-14.85	
Data File Sample														
5M118281.D OMB95381(MS)	58351	2.57	69094	5.80	264809	6.80	133569	8.23	249607	9.68	234631	12.73	247130	14.35
5M118282.D OMB95381	71975	2.57	89569	5.80	343682	6.80	179250	8.22	338662	9.68	294776	12.73	318024	14.35
5M118283.D 26741-006(10X)	86483	2.56	109615	5.80	436709	6.80	225128	8.22	443700	9.68	391071	12.73	428505	14.35
5M118284.D SMB95380(MS)	67106	2.54	69275	5.79	265766	6.80	133800	8.23	254445	9.68	234990	12.73	256337	14.35
5M118285.D AD26577-001	60390	2.54	67417	5.79	263968	6.80	136342	8.22	265104	9.68	230349	12.73	252236	14.35
5M118286.D SMB95380	56951	2.54	64078	5.79	263776	6.80	137975	8.22	266308	9.68	231553	12.73	257472	14.35

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101503 0092

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109074.D Method: EPA 8270E

Analysis Date/Time: 10/26/21 08:55

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	36242	2.80	65314	5.97	263124	6.98	133794	8.43	257977	9.91	284338	12.99	331244	14.64
Eval File Area Limit:	18121-72484		32657-130628		131562-526248		66897-267588		128988-515954		142169-568676		165622-662488	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.93-8.93		9.41-10.41		12.49-13.49		14.14-15.14	

Data File	Sample													
9M109075.D	WMB95369	34272	2.81	62055	5.97	246181	6.98	125042	8.42	244450	9.91	246568	12.98	289371	14.64
9M109076.D	AD26741-002	33081	2.81	59140	5.97	231838	6.98	118661	8.42	228966	9.91	236104	12.98	280707	14.64
9M109077.D	AD26741-003	31950	2.80	57634	5.97	229449	6.98	116883	8.42	224043	9.91	227338	12.98	267076	14.65
9M109078.D	AD26741-004	33399	2.81	59155	5.97	232582	6.98	120448	8.43	231243	9.91	236480	12.98	278358	14.64
9M109079.D	AD26741-006	32300	2.81	55976	5.97	252403	6.98	114399	8.42	219570	9.91	227874	12.98	269168	14.65
9M109080.D	AD26771-005	30171	2.81	52232	5.97	218598	6.98	110454	8.42	213494	9.91	216745	12.98	251865	14.65
9M109081.D	AD26771-014	31168	2.80	53111	5.97	226025	6.98	113194	8.42	219112	9.91	211965	12.98	238268	14.64
9M109082.D	AD26771-015	32480	2.80	56096	5.97	225002	6.98	116358	8.42	228395	9.91	235125	12.98	273678	14.65
9M109083.D	AD26771-016	32178	2.80	56426	5.97	227082	6.98	114158	8.42	204225	9.91	236700	12.98	276937	14.64
9M109084.D	AD26741-002(3X)	34529	2.80	59488	5.97	243719	6.98	130358	8.42	250634	9.91	257603	12.98	301890	14.64
9M109085.D	AD26741-006(5X)	34009	2.80	57858	5.97	249190	6.98	116070	8.42	257346	9.91	257851	12.98	313190	14.64
9M109086.D	AD26823-001	31349	2.81	56687	5.97	212935	6.98	122962	8.43	100666	9.94	254530	13.02	290245	14.66
9M109087.D	AD26807-001	37398	2.80	63358	5.97	254860	6.98	137213	8.42	263748	9.91	271318	12.98	317274	14.64
9M109088.D	AD26765-001	35679	2.81	64365	5.97	262540	6.98	131820	8.42	255089	9.91	262374	12.98	267283	14.64
9M109089.D	AD26765-001(MS)	37330	2.80	68567	5.97	276220	6.98	136072	8.42	264067	9.91	283129	12.98	326397	14.64
9M109090.D	SMB95380	36617	2.78	59534	5.97	243368	6.97	125765	8.42	241042	9.91	239758	12.98	294276	14.64
9M109091.D	AD26765-001(MSD)	38892	2.80	69101	5.97	274022	6.98	145565	8.42	275918	9.91	293941	12.98	338079	14.64
9M109092.D	AD26651-009	34881	2.80	55957	5.97	225881	6.97	96940	8.44	62268	9.96	226964	13.04	265252	14.66
9M109093.D	AD26692-004	39886	2.79	67417	5.97	267761	6.98	136378	8.42	256317	9.91	265029	12.98	307243	14.64
9M109094.D	AD26692-006	39720	2.79	70997	5.97	282741	6.97	142706	8.42	271528	9.91	277037	12.98	318260	14.64
9M109095.D	AD26768-001	41613	2.80	73919	5.97	297061	6.98	156994	8.43	231605	9.93	314619	13.00	359326	14.65
9M109096.D	AD26770-001(5X)	43075	2.81	75666	5.97	297145	6.98	149048	8.43	244758	9.92	298887	13.00	348526	14.64
9M109097.D	AD26669-001(5X)	42233	2.81	74317	5.97	290110	6.98	145980	8.42	277272	9.91	282264	12.98	325552	14.64
9M109098.D	AD26764-003(3X)	39969	2.80	70757	5.97	282916	6.98	143004	8.42	272257	9.91	273305	12.98	314949	14.64
9M109099.D	AD26778-002(3X)	39048	2.81	69451	5.97	281022	6.98	141296	8.42	268797	9.91	270740	12.98	315033	14.64
9M109100.D	AD26778-004(3X)	39684	2.81	72033	5.97	288197	6.98	146358	8.42	276728	9.91	273472	12.98	322834	14.64
9M109101.D	AD26778-006(3X)	39131	2.81	70013	5.97	281636	6.98	141447	8.42	269536	9.91	267840	12.98	319406	14.64
9M109102.D	AD26715-001	42871	2.79	76668	5.97	306909	6.98	153461	8.42	292932	9.91	291718	12.98	343766	14.64
9M109103.D	AD26715-002	39961	2.79	74605	5.97	266778	6.98	143327	8.42	269521	9.91	272834	12.98	323801	14.64
9M109104.D	AD26602-004(5X)	41125	2.81	72046	5.97	278766	6.98	141904	8.43	265223	9.91	269879	12.98	316525	14.64
9M109105.D	AD26654-004	38338	2.80	70144	5.97	278559	6.98	79677	8.44	62161	9.97	291422	13.02	331671	14.65

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101503 0093

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M117400.D Method: EPA 8270E

Analysis Date/Time: 10/26/21 09:00

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	56161	2.56	132756	5.81	529704	6.82	293253	8.25	590997	9.71	529890	12.78	550240	14.41
Eval File Area Limit:	28080-112322		66378-265512		264852-1059408		146626-586506		295498-1181994		264945-1059780		275120-1100480	
Eval File Rt Limit:	2.06-3.06		5.31-6.31		6.32-7.32		7.75-8.75		9.21-10.21		12.28-13.28		13.91-14.91	

Data File	Sample														
7M117401.D	WMB95369(MS)	54541	2.57	125317	5.81	490657	6.81	260558	8.25	518002	9.71	458054	12.78	473999	14.41
7M117402.D	WMB95369	62581	2.57	143284	5.81	565194	6.81	315057	8.25	625652	9.71	558114	12.78	590848	14.41
7M117406.D	AD26421-001(T)	51533	2.57	111372	5.81	445606	6.81	230551	8.25	444376	9.71	421668	12.78	452048	14.42
7M117407.D	AD26421-001(T)(MS)	61548	2.57	134298	5.81	518008	6.82	261805	8.25	504526	9.71	473565	12.78	508937	14.43
7M117408.D	AD26421-001(T)(MSD	59715	2.57	135041	5.81	521318	6.82	267169	8.25	518985	9.72	486828	12.78	516106	14.42
7M117409.D	AD26541-002(T)	64385	2.57	140311	5.81	549140	6.81	280591	8.25	540753	9.71	487145	12.78	518060	14.41
7M117411.D	EF-SPLP V-359711(1	52501	2.57	117335	5.81	476846	6.81	264318	8.25	525758	9.71	450538	12.77	475109	14.41
7M117412.D	EF-SPLP V-359711(1	49689	2.56	109785	5.81	438050	6.81	243623	8.25	472438	9.71	404629	12.77	428286	14.41
7M117413.D	WMB95370	72403	2.57	156440	5.81	627722	6.82	348677	8.25	696324	9.71	599381	12.78	646548	14.41
7M117414.D	AD26774-001	62108	2.57	133955	5.81	539356	6.82	294133	8.26	586946	9.72	494938	12.78	525589	14.41
7M117415.D	AD26741-006(10X)	68685	2.57	151303	5.81	599563	6.82	327447	8.25	646223	9.71	583813	12.77	628067	14.41
7M117416.D	AD26743-001	67158	2.56	141154	5.81	563358	6.81	293432	8.25	564089	9.71	534630	12.77	583337	14.41
7M117417.D	AD26763-001	54483	2.56	118392	5.81	470901	6.81	264560	8.24	508276	9.71	444381	12.77	469573	14.41
7M117418.D	AD26635-002	61427	2.56	128786	5.81	509734	6.81	266002	8.24	495794	9.71	422718	12.77	458769	14.41
7M117419.D	AD26635-002(MS)	64855	2.56	133923	5.81	519653	6.81	270877	8.24	514112	9.71	453676	12.78	484308	14.40
7M117420.D	AD26635-002(MSD)	70646	2.56	147421	5.81	567533	6.81	297522	8.24	557077	9.71	487894	12.78	526940	14.40
7M117421.D	AD26835-001	55990	2.57	129771	5.81	502599	6.81	270110	8.24	518208	9.71	436156	12.77	448606	14.40
7M117422.D	AD26835-002	66347	2.56	148259	5.81	587852	6.81	312831	8.24	589365	9.71	478668	12.77	509600	14.40
7M117423.D	SMB95380	53878	2.56	123477	5.81	494961	6.81	271611	8.24	524536	9.71	439406	12.77	462350	14.40

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26669-001
Client Id: SB-004 SS
Data File: 7G56045.D
Analysis Date: 10/27/21 14:13
Date Rec/Extracted: 10/15/21-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**67**	**97**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-27-21\
Data File : 7G56045.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2021 14:13
Operator : ABM/AH
Sample : AD26669-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:45:17 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

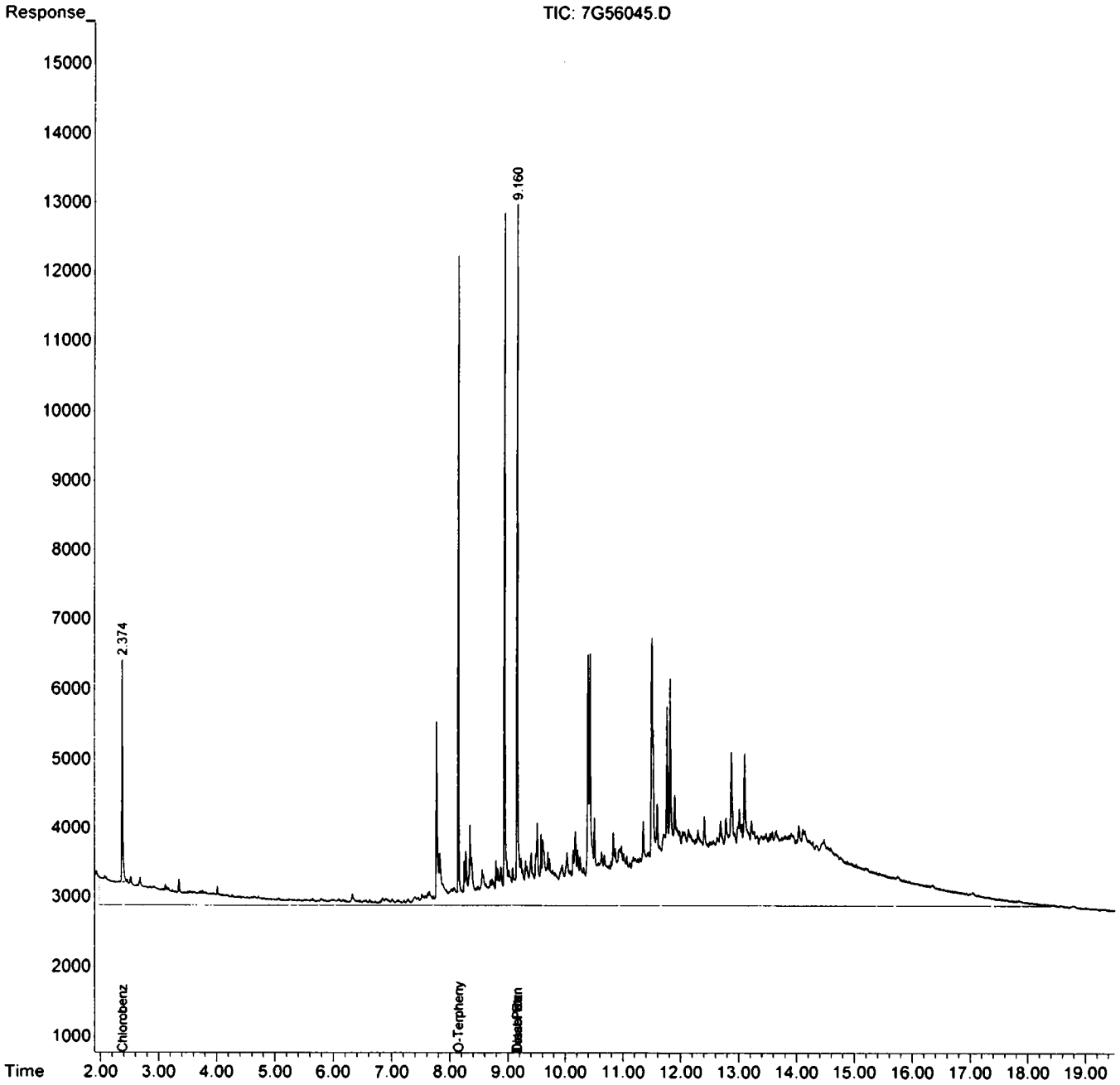
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.375	32225	9.629		
23)	O-Terphenyl	8.149	70003	11.401		
24)d	Diesel Range Organics(T	9.160f	1710208	320.649		m
25)t	Total Petroleum Hydroca	9.160f	4662718	894.347		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-27-21\
Data File : 7G56045.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2021 14:13
Operator : ABM/AH
Sample : AD26669-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:45:17 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95402
Client Id:
Data File: 8G667239.D
Analysis Date: 10/27/21 14:11
Date Rec/Extracted: NA-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 614604

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

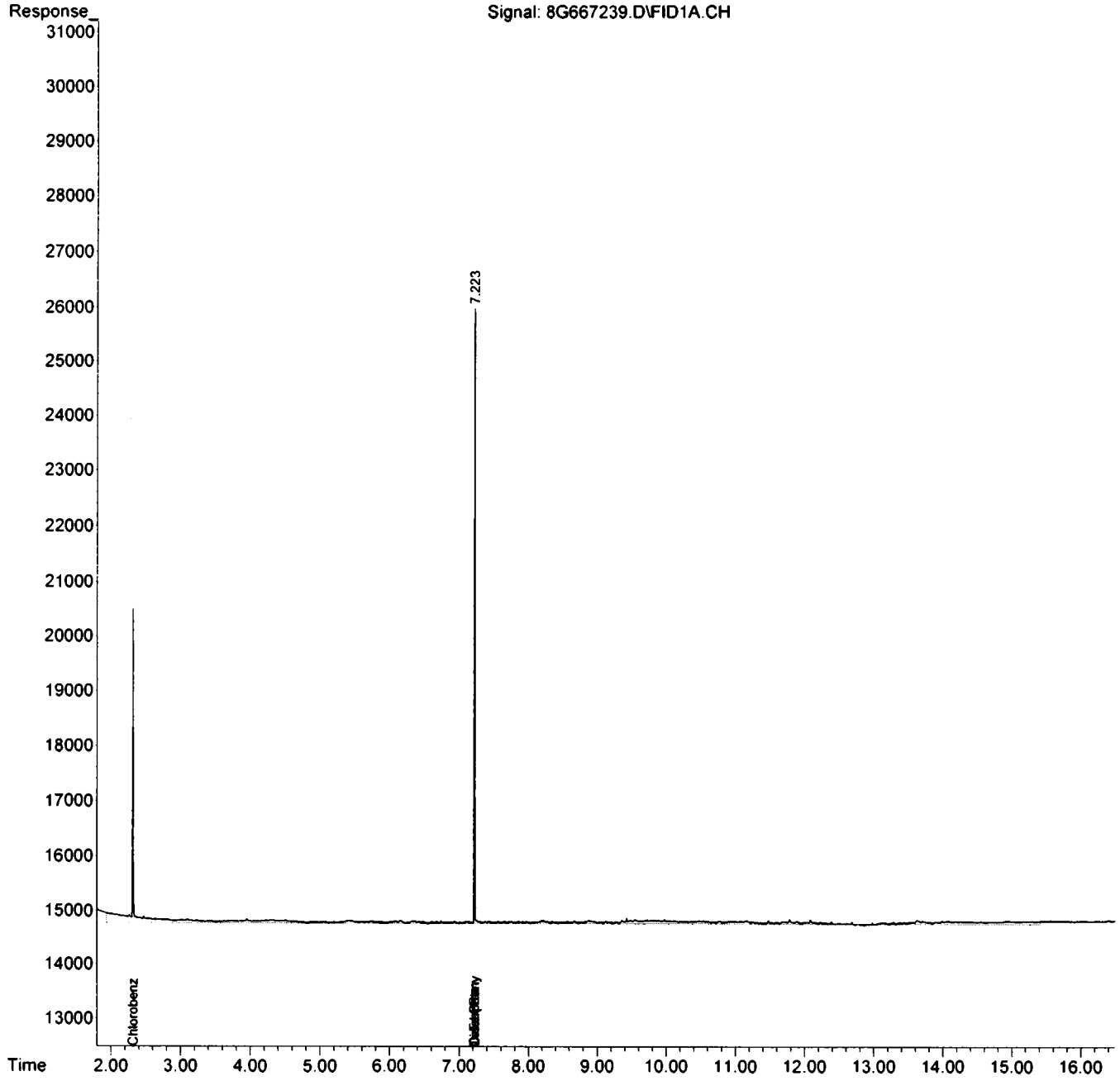
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.316	32504	14.812		
23)	O-Terphenyl	7.223	69526	17.859		
24)d	Diesel Range Organics(T	7.223f	216720	67.325		m
25)t	Total Petroleum Hydroca	7.223f	429789	137.077		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667239.D	SMB95402	S	10/27/21 14:11	1		74	89				
7G56045.D	AD26669-001	S	10/27/21 14:13	1		48	57				
8G667240.D	SMB95402(MS)	S	10/27/21 14:37	1		67	66				
8G667241.D	AD26715-001	S	10/27/21 15:02	1		61	64				
8G667243.D	AD26715-001(MS)	S	10/27/21 15:53	1		62	61				
8G667244.D	AD26715-001(MSD)	S	10/27/21 16:18	1		57	60				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667240.D	SMB95402(MS)	10/27/2021 2:37:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1884.54**	**0**	**3000**	**63**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1773.75**	**151.82**	**3000**	**54**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1718.41**	**151.82**	**3000**	**52**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Duplicate(If applicable):	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**1718.41**	**1773.75**	**3.2**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95402
Blank Data File: 8G667239.D
Matrix: Soil

Blank Analysis Date: 10/27/21 14:11
Blank Extraction Date: 10/27/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26669-001	7G56045.D	10/27/21 14:13
AD26715-001(MSD	8G667244.D	10/27/21 16:18
AD26715-001(MS)	8G667243.D	10/27/21 15:53
AD26715-001	8G667241.D	10/27/21 15:02
SMB95402(MS)	8G667240.D	10/27/21 14:37

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2)	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2)	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56041.D	INST BLK	10/27/21 09:14	Soil					
7G56042.D	TPH@20PPM	10/27/21 09:44	Soil					
7G56043.D	CAL TPH@20PPM	10/27/21 10:46	Soil	7G56043	8.1417	0		
7G56044.D	INST BLK	10/27/21 11:19	Soil	7G56043	0.0000	200		
7G56045.D	AD26669-001	10/27/21 14:13	Soil	7G56043	8.1489	0.0884		
7G56046.D	CAL TPH@20PPM	10/27/21 14:51	Soil	7G56043	8.1470	0.0651		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667236.D	INST BLK(MECL2)	10/27/21 09:26	Soil					
8G667237.D	CALTPH@20PPM	10/27/21 09:51	Soil	8G66723	7.2007	0		
8G667238.D	INST BLK(MECL2)	10/27/21 12:35	Aqueous	8G66723	0.0000	200		
8G667239.D	SMB95402	10/27/21 14:11	Soil	8G66723	7.2235	0.3161		
8G667240.D	SMB95402(MS)	10/27/21 14:37	Soil	8G66723	7.2007	0		
8G667241.D	AD26715-001	10/27/21 15:02	Soil	8G66723	7.1988	0.0264		
8G667242.D	AD26715-002	10/27/21 15:27	Soil	8G66723	7.1991	0.0222		
8G667243.D	AD26715-001(MS)	10/27/21 15:53	Soil	8G66723	7.1978	0.0403		
8G667244.D	AD26715-001(MSD)	10/27/21 16:18	Soil	8G66723	7.1976	0.0431		
8G667245.D	CALTPH@20PPM	10/27/21 18:13	Soil	8G66723	7.2106	0.1374		
8G667246.D	TPH@20PPM	10/27/21 18:38	Soil	8G66724	7.1986	0.1666		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101503 0110

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1101503 0111

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56043.D			7G56046.D			8G667237.D			8G667245.D						
Method:				8015			8015			8015			8015						
Calibration Name:				CAL TPH@20PPM			CAL TPH@20PPM			CALTPH@20PPM			CALTPH@20PPM						
Calibration Date/Time				10/27/21 10:46			10/27/21 14:51			10/27/21 09:51			10/27/21 18:13						
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	16	20	20.0	16.41	20	18.0	18.44	20	7.8	17.27	20	13.7			
C9	20	1	0	16.35	20	18.3	17.48	20	12.6	18.3	20	8.5	17.36	20	13.2			
C10	20	1	0	15.99	20	20.1	17.29	20	13.6	18.23	20	8.9	17.48	20	12.6			
C12	20	1	0	13.78	20	31.1*	16.43	20	17.9	18.53	20	7.3	17.55	20	12.3			
C14	20	1	0	16.83	20	15.9	18.71	20	6.5	17.93	20	10.4	17.47	20	12.7			
C16	20	1	0	16.29	20	18.6	18.3	20	8.5	17.94	20	10.3	17.58	20	12.1			
C17	20	1	0	12.83	20	35.9*	14.02	20	29.9*	17.57	20	12.2	16.22	20	18.9			
Pristane	20	1	0	19.19	20	4.0	22.82	20	14.1	18.32	20	8.4	17.89	20	10.6			
C18	20	1	0	15.11	20	24.5*	17.15	20	14.3	17.7	20	11.5	17.45	20	12.8			
Phytane	20	1	0	18.18	20	9.1	19.8	20	1.0	18.16	20	9.2	17.7	20	11.5			
C20	20	1	0	17.81	20	11.0	19.87	20	0.6	18	20	10.0	17.54	20	12.3			
C22	20	1	0	17.21	20	14.0	19.65	20	1.8	17.82	20	10.9	17.46	20	12.7			
C24	20	1	0	17.49	20	12.6	19.29	20	3.5	17.54	20	12.3	17.52	20	12.4			
C26	20	1	0	17.5	20	12.5	19.33	20	3.4	17.5	20	12.5	17.43	20	12.9			
C28	20	1	0	17.42	20	12.9	19.24	20	3.8	17.45	20	12.8	17.4	20	13.0			
C30	20	1	0	17.66	20	11.7	19.5	20	2.5	17.33	20	13.4	17.56	20	12.2			
C32	20	1	0	17.93	20	10.4	19.99	20	0.1	17.4	20	13.0	17.4	20	13.0			
C34	20	1	0	16.89	20	15.6	19.38	20	3.1	17.1	20	14.5	17.17	20	14.2			
C36	20	1	0	15.86	20	20.7*	17.24	20	13.8	16.52	20	17.4	16.87	20	15.6			
C40	20	1	0	13.15	20	34.3*	14.22	20	28.9*	15.06	20	24.7*	15.29	20	23.6*			
C44	20	1	0	11.63	20	41.9*	10.24	20	48.8*	13.7	20	31.5*	15.1	20	24.5*			
Chlorobenzene	20	1	0	16.34	20	18.3	18.24	20	8.8	18.11	20	9.4	17.16	20	14.2			
O-Terphenyl	20	1	0	17.93	20	10.4	19.94	20	0.3	17.83	20	10.9	17.45	20	12.8			
Average Difference	20	1	0			18.4			11.1			12.5			14.1			

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)	8.14	(8.10 - 8.18)	7.20	(7.16 - 7.24)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26669-001
Client Id: SB-004 SS
Data File: 7G56045.D
Analysis Date: 10/27/21 14:13
Date Rec/Extracted: 10/15/21-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	67	U				

Worksheet #: 614612 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-27-21\
Data File : 7G56045.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2021 14:13
Operator : ABM/AH
Sample : AD26669-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:45:17 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

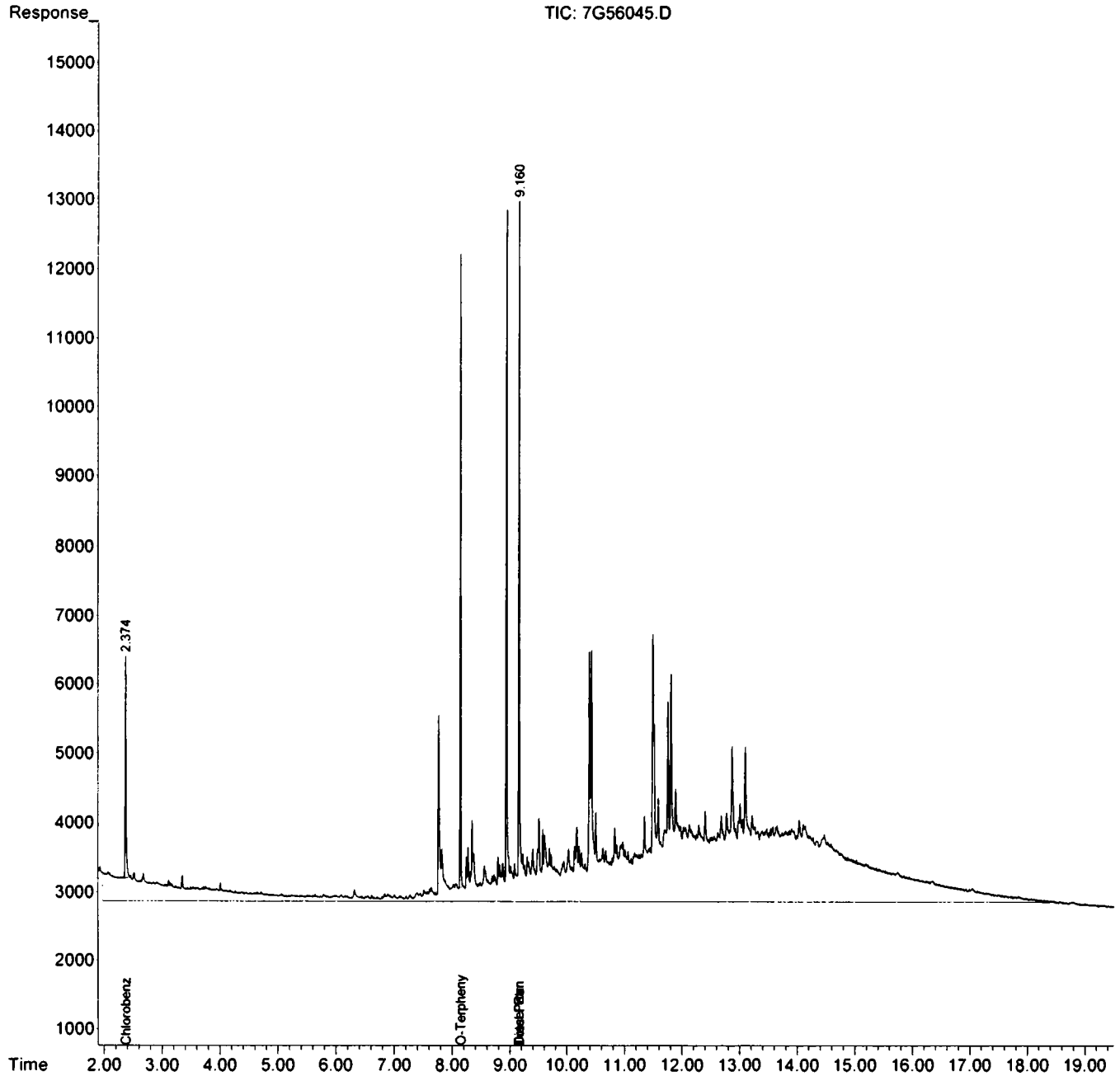
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.375	32225	9.629		
23)	O-Terphenyl	8.149	70003	11.401		
24)d	Diesel Range Organics(T	9.160f	1710208	320.649		m
25)t	Total Petroleum Hydroca	9.160f	4662718	894.347		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-27-21\
Data File : 7G56045.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2021 14:13
Operator : ABM/AH
Sample : AD26669-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:45:17 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95402
Client Id:
Data File: 8G667239.D
Analysis Date: 10/27/21 14:11
Date Rec/Extracted: NA-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 614612

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

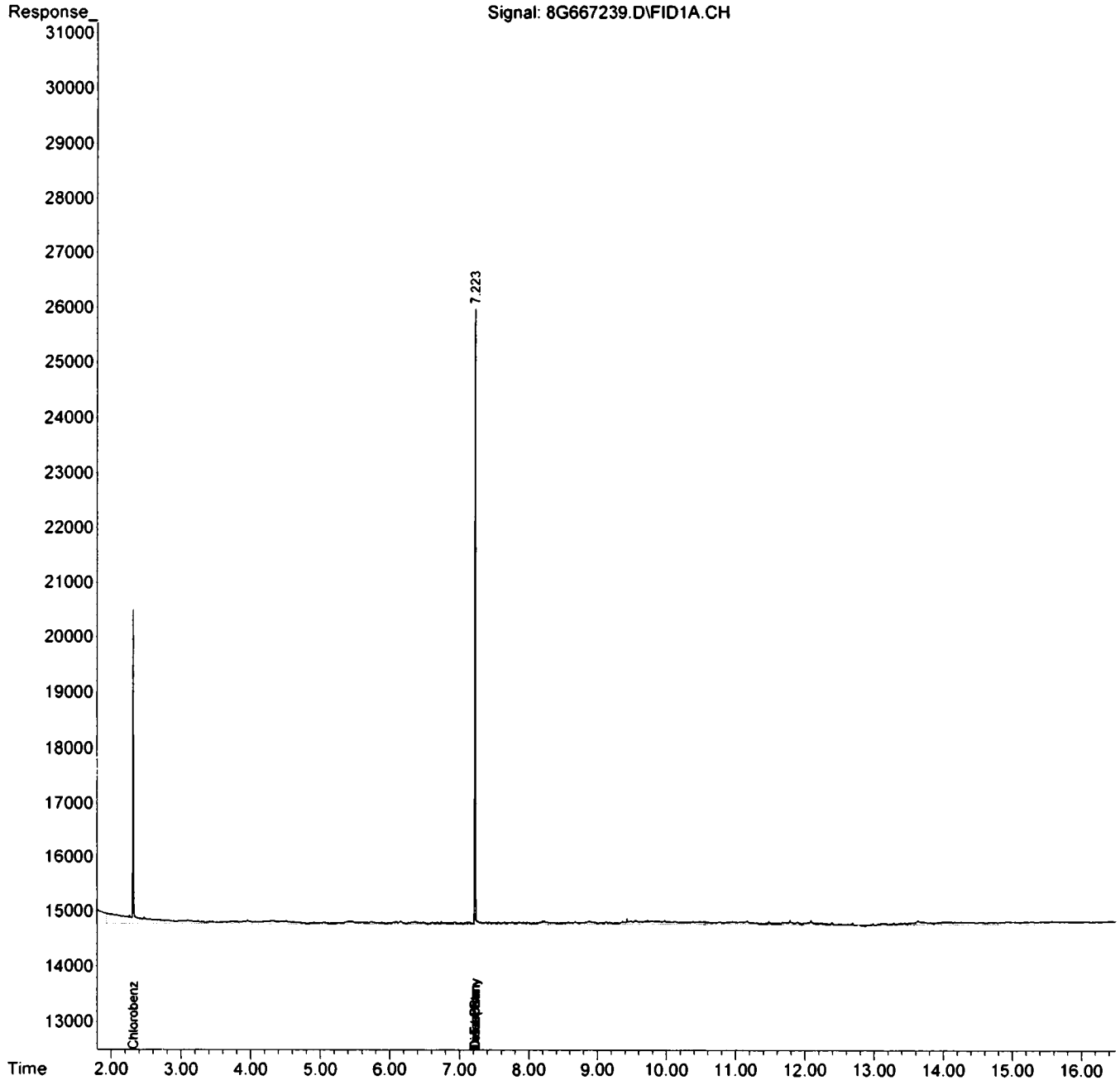
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.316	32504	14.812		
23)	O-Terphenyl	7.223	69526	17.859		
24)d	Diesel Range Organics(T	7.223f	216720	67.325		m
25)t	Total Petroleum Hydroca	7.223f	429789	137.077		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667239.D	SMB95402	S	10/27/21 14:11	1		74	89				
7G56045.D	AD26669-001	S	10/27/21 14:13	1		48	57				
8G667240.D	SMB95402(MS)	S	10/27/21 14:37	1		67	66				
8G667241.D	AD26715-001	S	10/27/21 15:02	1		61	64				
8G667243.D	AD26715-001(MS)	S	10/27/21 15:53	1		62	61				
8G667244.D	AD26715-001(MSD)	S	10/27/21 16:18	1		57	60				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667240.D	SMB95402(MS)	10/27/2021 2:37:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1884.54**	**0**	**3000**	**63**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1773.75**	**151.82**	**3000**	**54**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1718.41**	**151.82**	**3000**	**52**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Duplicate(If applicable):	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**1718.41**	**1773.75**	**3.2**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95402
Blank Data File: 8G667239.D
Matrix: Soil

Blank Analysis Date: 10/27/21 14:11
Blank Extraction Date: 10/27/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26669-001	7G56045.D	10/27/21 14:13
AD26715-001(MSD	8G667244.D	10/27/21 16:18
AD26715-001(MS)	8G667243.D	10/27/21 15:53
AD26715-001	8G667241.D	10/27/21 15:02
SMB95402(MS)	8G667240.D	10/27/21 14:37

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2\	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2\	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56041.D	INST BLK	10/27/21 09:14	Soil					
7G56042.D	TPH@20PPM	10/27/21 09:44	Soil					
7G56043.D	CAL TPH@20PPM	10/27/21 10:46	Soil	7G56043.	8.1417	0		
7G56044.D	INST BLK	10/27/21 11:19	Soil	7G56043.	0.0000	200		
7G56045.D	AD26669-001	10/27/21 14:13	Soil	7G56043.	8.1489	0.0884		
7G56046.D	CAL TPH@20PPM	10/27/21 14:51	Soil	7G56043.	8.1470	0.0651		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667236.D	INST BLK(MECL2)	10/27/21 09:26	Soil					
8G667237.D	CALTPH@20PPM	10/27/21 09:51	Soil	8G66723	7.2007	0		
8G667238.D	INST BLK(MECL2)	10/27/21 12:35	Aqueous	8G66723	0.0000	200		
8G667239.D	SMB95402	10/27/21 14:11	Soil	8G66723	7.2235	0.3161		
8G667240.D	SMB95402(MS)	10/27/21 14:37	Soil	8G66723	7.2007	0		
8G667241.D	AD26715-001	10/27/21 15:02	Soil	8G66723	7.1988	0.0264		
8G667242.D	AD26715-002	10/27/21 15:27	Soil	8G66723	7.1991	0.0222		
8G667243.D	AD26715-001(MS)	10/27/21 15:53	Soil	8G66723	7.1978	0.0403		
8G667244.D	AD26715-001(MSD)	10/27/21 16:18	Soil	8G66723	7.1976	0.0431		
8G667245.D	CALTPH@20PPM	10/27/21 18:13	Soil	8G66723	7.2106	0.1374		
8G667246.D	TPH@20PPM	10/27/21 18:38	Soil	8G66724	7.1986	0.1666		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

1101503 0130

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1101503 0131

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56043.D				7G56046.D				8G667237.D				8G667245.D						
Method:				8015				8015				8015				8015						
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM				CALTPH@20PPM				CALTPH@20PPM						
Calibration Date/Time				10/27/21 10:46				10/27/21 14:51				10/27/21 09:51				10/27/21 18:13						
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff
C8	20	1	0	16	20	20.0		16.41	20	18.0		18.44	20	7.8		17.27	20	13.7				
C9	20	1	0	16.35	20	18.3		17.48	20	12.6		18.3	20	8.5		17.36	20	13.2				
C10	20	1	0	15.99	20	20.1		17.29	20	13.6		18.23	20	8.9		17.48	20	12.6				
C12	20	1	0	13.78	20	31.1*		16.43	20	17.9		18.53	20	7.3		17.55	20	12.3				
C14	20	1	0	16.83	20	15.9		18.71	20	6.5		17.93	20	10.4		17.47	20	12.7				
C16	20	1	0	16.29	20	18.6		18.3	20	8.5		17.94	20	10.3		17.58	20	12.1				
C17	20	1	0	12.83	20	35.9*		14.02	20	29.9*		17.57	20	12.2		16.22	20	18.9				
Pristane	20	1	0	19.19	20	4.0		22.82	20	14.1		18.32	20	8.4		17.89	20	10.6				
C18	20	1	0	15.11	20	24.5*		17.15	20	14.3		17.7	20	11.5		17.45	20	12.8				
Phytane	20	1	0	18.18	20	9.1		19.8	20	1.0		18.16	20	9.2		17.7	20	11.5				
C20	20	1	0	17.81	20	11.0		19.87	20	0.6		18	20	10.0		17.54	20	12.3				
C22	20	1	0	17.21	20	14.0		19.65	20	1.8		17.82	20	10.9		17.46	20	12.7				
C24	20	1	0	17.49	20	12.6		19.29	20	3.5		17.54	20	12.3		17.52	20	12.4				
C26	20	1	0	17.5	20	12.5		19.33	20	3.4		17.5	20	12.5		17.43	20	12.9				
C28	20	1	0	17.42	20	12.9		19.24	20	3.8		17.45	20	12.8		17.4	20	13.0				
C30	20	1	0	17.66	20	11.7		19.5	20	2.5		17.33	20	13.4		17.56	20	12.2				
C32	20	1	0	17.93	20	10.4		19.99	20	0.1		17.4	20	13.0		17.4	20	13.0				
C34	20	1	0	16.89	20	15.6		19.38	20	3.1		17.1	20	14.5		17.17	20	14.2				
C36	20	1	0	15.86	20	20.7*		17.24	20	13.8		16.52	20	17.4		16.87	20	15.6				
C40	20	1	0	13.15	20	34.3*		14.22	20	28.9*		15.06	20	24.7*		15.29	20	23.6*				
C44	20	1	0	11.63	20	41.9*		10.24	20	48.8*		13.7	20	31.5*		15.1	20	24.5*				
Chlorobenzene	20	1	0	16.34	20	18.3		18.24	20	8.8		18.11	20	9.4		17.16	20	14.2				
O-Terphenyl	20	1	0	17.93	20	10.4		19.94	20	0.3		17.83	20	10.9		17.45	20	12.8				
Average Difference	20	1	0			18.4				11.1				12.5				14.1				

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)	8.14	(8.10 - 8.18)	7.20	(7.16 - 7.24)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD26669-001
Client Id: SB-004 SS
Data File: 13M22799.D
Analysis Date: 10/15/21 15:26
Date Rec/Extracted: 10/15/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.33g:10ml
Final Vol: NA
Dilution: 93.8
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	26	U				

Worksheet #: 614536

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-15-21\
Data File : 13M22799.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2021 15:26
Operator : JM
Sample : AD26669-001
Misc : M,MEXT!6
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 13:28:52 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.495	21014	26.046		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-15-21\
Data File : 13M22799.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2021 15:26
Operator : JM
Sample : AD26669-001
Misc : M,MEXT!6
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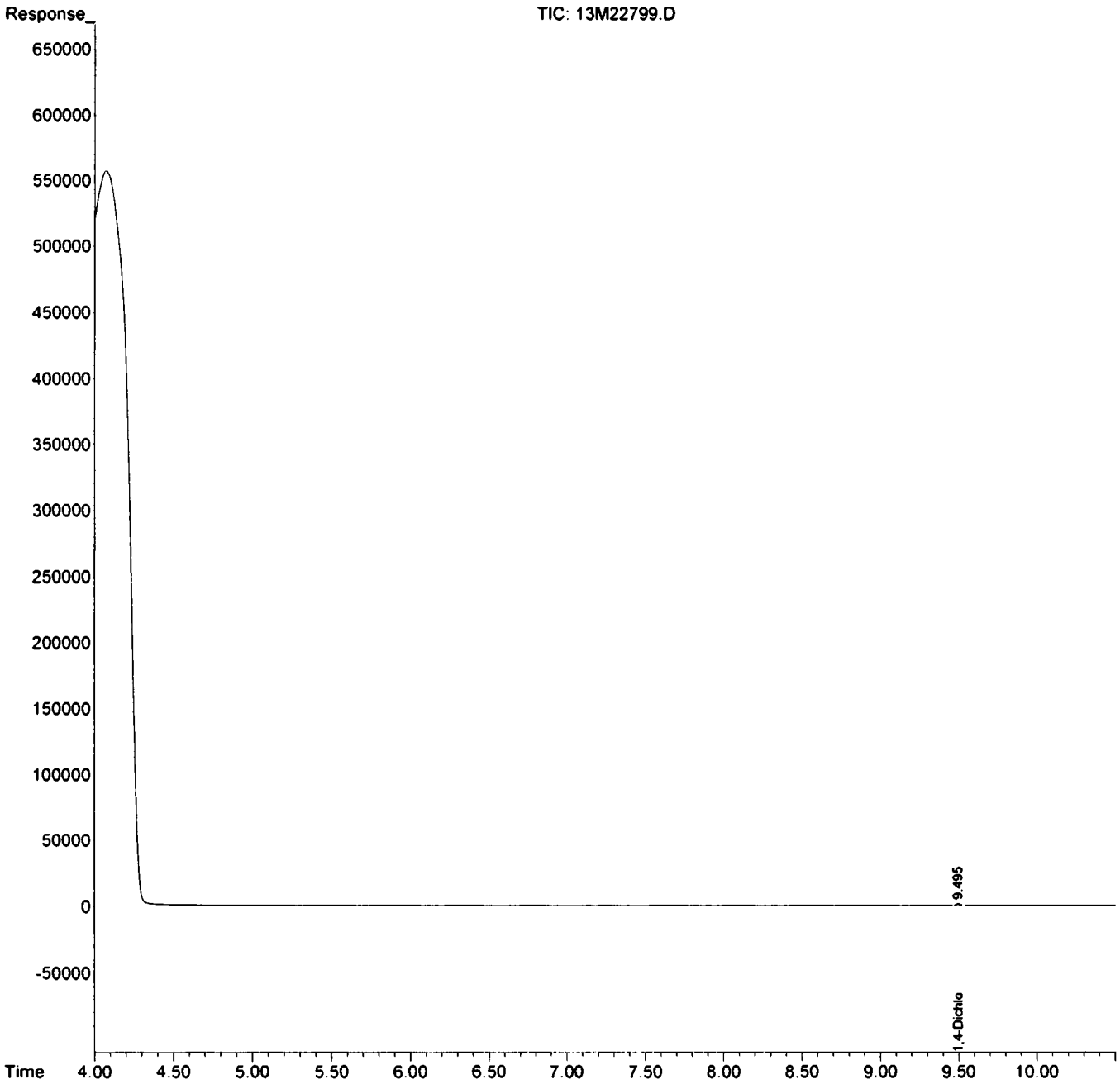
Quant Time: Oct 27 13:28:52 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M22781.D
Analysis Date: 10/15/21 10:27
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 614536

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-15-21\
Data File : 13M22781.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2021 10:27
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 18 10:30:04 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

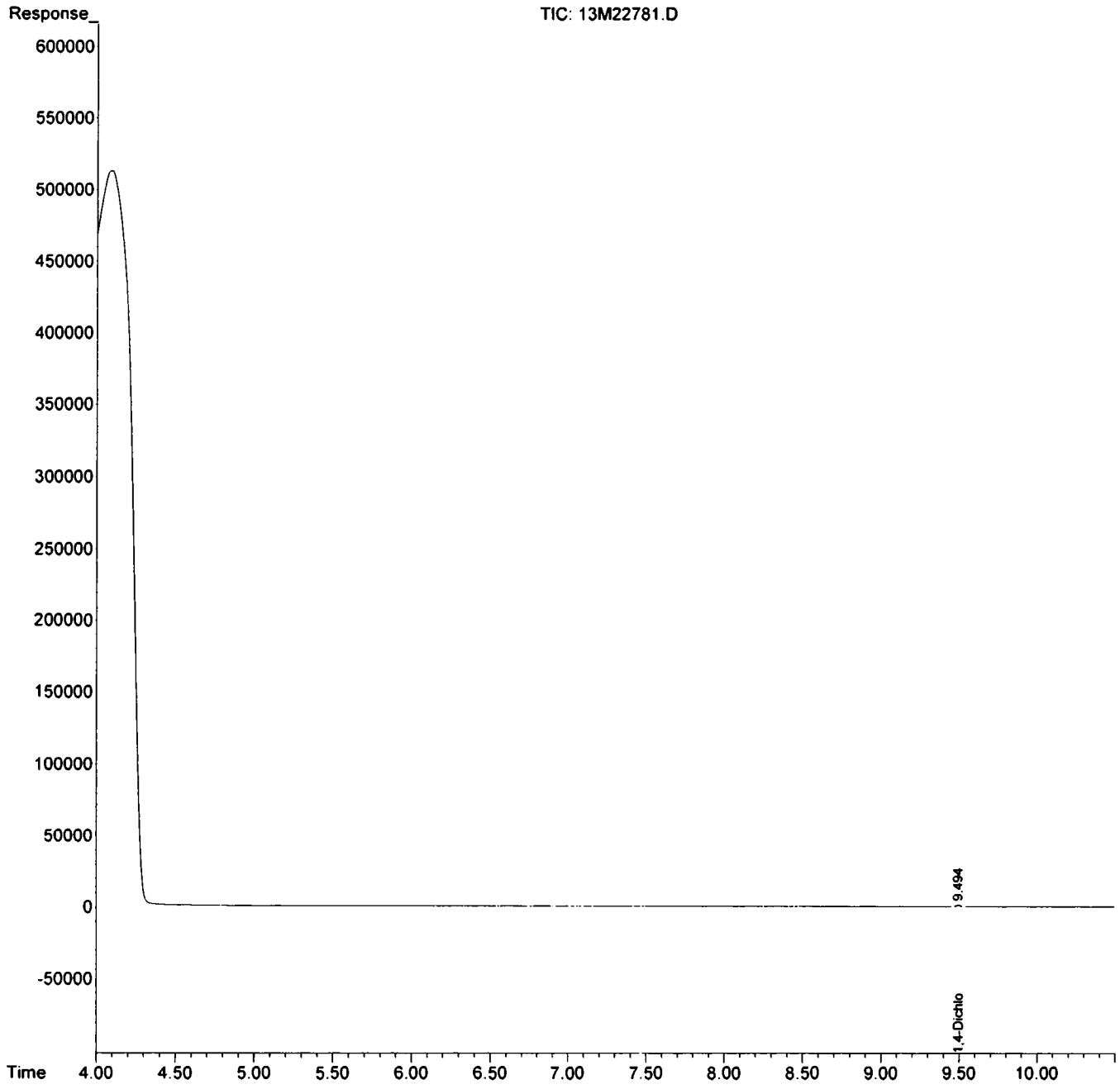
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.494	20667	25.617		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-15-21\
Data File : 13M22781.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2021 10:27
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 18 10:30:04 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M22696.D	DAILY BLANK	M	10/11/21 10:48	1		75					
13M22781.D	DAILY BLANK	M	10/15/21 10:27	1		85					
13M22799.D	AD26669-001	M	10/15/21 15:26	1		87					
13M22698.D	MBS96930	M	10/11/21 11:21	1		103					
13M22708.D	AD26554-011	M	10/11/21 14:07	1		97					
13M22786.D	MBS96981	M	10/15/21 11:50	1		107					
13M22800.D	AD26554-011(MS)	M	10/15/21 15:43	1		81					
13M22801.D	AD26554-011(MSD)	M	10/15/21 15:59	1		84					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS96930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22698.D	MBS96930	10/11/2021 11:21:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1995.49	0	2000	100	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS96981

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22786.D	MBS96981	10/15/2021 11:50:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2592.66	0	2000	130	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS96981

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22800.D	AD26554-011(MS)	10/15/2021 3:43:00 PM
Non Spike(If applicable):	13M22708.D	AD26554-011	10/11/2021 2:07:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2209.06	0	2000	110	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22801.D	AD26554-011(MSD)	10/15/2021 3:59:00 PM
Non Spike(If applicable):	13M22708.D	AD26554-011	10/11/2021 2:07:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2210.71	0	2000	111	11	181
Gasoline Range Organics	1	2210.71	0	2000	111	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS96981

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22801.D	AD26554-011(MSD)	10/15/2021 3:59:00 PM
Duplicate(If applicable):	13M22800.D	AD26554-011(MS)	10/15/2021 3:43:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2210.71	2209.06	0.07	40
Gasoline Range Organics	1	2210.71	-99999		40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M22696.D
Matrix: Methanol

Blank Analysis Date: 10/11/21 10:48
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
MBS96930	13M22698.D	10/11/21 11:21
AD26554-011	13M22708.D	10/11/21 14:07

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M22781.D
Matrix: Methanol

Blank Analysis Date: 10/15/21 10:27
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26669-001	13M22799.D	10/15/21 15:26
AD26554-011(MSD	13M22801.D	10/15/21 15:59
AD26554-011(MS)	13M22800.D	10/15/21 15:43
MBS96981	13M22786.D	10/15/21 11:50

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22394.D	CAL @ 250 PPB	08/23/21 21:30	Aqueous	13M2240	9.4713	0.0824		
13M22395.D	CAL @ 500 PPB	08/23/21 21:47	Aqueous	13M2240	9.4650	0.0159		
13M22396.D	CAL @ 750 PPB	08/23/21 22:04	Aqueous	13M2240	9.4705	0.0739		
13M22397.D	CAL @ 1000 PPB	08/23/21 22:20	Aqueous	13M2240	9.4663	0.0296		
13M22398.D	CAL @ 1500 PPB	08/23/21 22:37	Aqueous	13M2240	9.4612	0.0243		
13M22399.D	CAL @ 2000 PPB	08/23/21 22:54	Aqueous	13M2240	9.4603	0.0338		
13M22400.D	CAL @ 4000 PPB	08/23/21 23:10	Aqueous	13M2240	9.4635	0		
13M22403.D	STD	08/24/21 00:02	Aqueous	13M2240	9.4658	0.0243		
13M22404.D	STD	08/24/21 00:19	Aqueous	13M2240	9.4617	0.019		
13M22405.D	ICV@ 2000 PPB	08/24/21 00:37	Aqueous	13M2240	9.4638	0.0032		
13M22406.D	BLK	08/24/21 00:54	Aqueous	13M2240	9.4505	0.1375		
13M22407.D	BLK	08/24/21 14:11	Aqueous	13M2240	0.0000	200		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22651.D	BLK	10/04/21 09:51	Aqueous	13M2268	0.0000	200		
13M22652.D	CAL @ 2000 PPB	10/04/21 10:07	Aqueous	13M2265	9.4867	0		
13M22653.D	2000PPB	10/04/21 10:24	Aqueous	13M2265	0.0000	200		
13M22654.D	BLK	10/04/21 10:41	Methanol	13M2265	0.0000	200		
13M22655.D	BLK	10/04/21 10:58	Methanol	13M2265	9.4834	0.0348		
13M22656.D	DAILY BLANK	10/04/21 11:14	Methanol	13M2265	9.4822	0.0475		
13M22657.D	MBS96876	10/04/21 11:30	Methanol	13M2265	9.4852	0.0158		
13M22658.D	AD26292-004(MS)	10/04/21 11:48	Methanol	13M2265	9.4852	0.0158		
13M22659.D	AD26292-004(MSD)	10/04/21 12:04	Methanol	13M2265	9.4818	0.0517		
13M22660.D	AD26292-004	10/04/21 12:21	Methanol	13M2265	9.4836	0.0327		
13M22661.D	BLK	10/04/21 12:38	Aqueous	13M2265	9.4817	0.0527		
13M22662.D	AD26377-002	10/04/21 12:54	Methanol	13M2265	9.4811	0.059		
13M22663.D	AD26376-004	10/04/21 13:11	Methanol	13M2265	9.4804	0.0664		
13M22664.D	AD26376-006	10/04/21 13:28	Methanol	13M2265	9.4858	0.0095		
13M22665.D	AD26376-008	10/04/21 13:45	Methanol	13M2265	9.4846	0.0221		
13M22666.D	AD26376-010	10/04/21 14:02	Methanol	13M2265	9.4822	0.0475		
13M22667.D	AD26376-012	10/04/21 14:19	Methanol	13M2265	9.4825	0.0443		
13M22668.D	AD26376-014	10/04/21 14:36	Methanol	13M2265	9.4801	0.0696		
13M22669.D	AD26376-016	10/04/21 14:53	Methanol	13M2265	9.4768	0.1044		
13M22670.D	AD26376-018	10/04/21 15:09	Methanol	13M2265	9.4705	0.1709		
13M22671.D	AD26377-002	10/04/21 15:26	Methanol	13M2265	9.4749	0.1245		
13M22672.D	AD26377-003	10/04/21 15:43	Methanol	13M2265	9.4825	0.0443		
13M22673.D	AD26377-004	10/04/21 16:00	Methanol	13M2265	9.4797	0.0738		
13M22676.D	2000PPM	10/04/21 16:51	Methanol	13M2265	9.4719	0.1561		
13M22677.D	BLK	10/04/21 17:08	Aqueous	13M2265	9.4710	0.1656		
13M22678.D	AD26377-004	10/04/21 17:25	Methanol	13M2265	9.4675	0.2026		
13M22679.D	AD26376-002	10/04/21 17:42	Methanol	13M2265	9.4669	0.2089		
13M22680.D	AD26377-004	10/04/21 17:59	Methanol	13M2265	9.4596	0.2861		
13M22681.D	AD26377-003(400uL)	10/04/21 18:15	Methanol	13M2265	9.4640	0.2396		
13M22682.D	BLK	10/04/21 18:32	Aqueous	13M2265	9.4629	0.2512		
13M22683.D	CAL @ 2000 PPB	10/04/21 18:49	Aqueous	13M2265	9.4635	0.2449		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22692.D	2000PPB	10/11/21 09:41	Aqueous	13M2272	0.0000	200		
13M22694.D	CAL@ 2000PPB	10/11/21 10:14	Aqueous	13M2269	9.4931	0		
13M22695.D	BLK	10/11/21 10:31	Methanol	13M2269	0.0000	200		
13M22696.D	DAILY BLANK	10/11/21 10:48	Methanol	13M2269	9.4773	0.1666		
13M22697.D	BLK	10/11/21 11:05	Methanol	13M2269	9.4718	0.2246		
13M22698.D	MBS96930	10/11/21 11:21	Methanol	13M2269	9.4702	0.2415		
13M22699.D	AD26376-006(MS)	10/11/21 11:38	Methanol	13M2269	9.4753	0.1877		
13M22700.D	AD26376-006(MSD)	10/11/21 11:54	Methanol	13M2269	9.4755	0.1856		
13M22701.D	BLK	10/11/21 12:11	Methanol	13M2269	9.4757	0.1835		
13M22702.D	BLK	10/11/21 12:28	Methanol	13M2269	9.4782	0.1571		
13M22703.D	AD26427-002	10/11/21 12:44	Methanol	13M2269	9.4832	0.1043		
13M22704.D	AD26528-002	10/11/21 13:01	Methanol	13M2269	9.4821	0.1159		
13M22705.D	2000PPB	10/11/21 13:17	Aqueous	13M2269	9.4814	0.1233		
13M22706.D	BLK	10/11/21 13:34	Methanol	13M2269	9.4761	0.1792		
13M22707.D	BLK	10/11/21 13:51	Methanol	13M2269	0.0000	200		
13M22708.D	AD26554-011	10/11/21 14:07	Methanol	13M2269	9.4896	0.0369		
13M22709.D	AD26554-012	10/11/21 14:24	Methanol	13M2269	9.4870	0.0643		
13M22710.D	AD26554-013	10/11/21 14:40	Methanol	13M2269	9.4918	0.0137		
13M22711.D	AD26554-014	10/11/21 14:57	Methanol	13M2269	9.5004	0.0769		
13M22712.D	AD26554-015	10/11/21 15:14	Methanol	13M2269	9.4931	0		
13M22713.D	AD26554-016	10/11/21 15:30	Methanol	13M2269	9.4886	0.0474		
13M22714.D	AD26554-017	10/11/21 15:47	Methanol	13M2269	9.4925	0.0063		
13M22715.D	AD26554-018	10/11/21 16:03	Methanol	13M2269	9.4946	0.0158		
13M22716.D	AD26554-019	10/11/21 16:20	Methanol	13M2269	9.4933	0.0021		
13M22717.D	AD26554-020	10/11/21 16:36	Methanol	13M2269	9.4825	0.1117		
13M22718.D	AD26554-021	10/11/21 16:53	Methanol	13M2269	9.4790	0.1486		
13M22719.D	BLK	10/11/21 17:10	Methanol	13M2269	9.4717	0.2257		
13M22720.D	CAL @ 2000PPB	10/11/21 17:27	Aqueous	13M2269	9.4691	0.2531		
13M22721.D	2000PPB	10/11/21 17:44	Aqueous	13M2272	9.4693	0.0021		
13M22722.D	BLK	10/11/21 18:01	Aqueous	13M2272	9.4614	0.0813		
13M22723.D	BLK	10/11/21 18:18	Aqueous	13M2272	9.4618	0.0771		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22741.D	250PPB	10/14/21 10:47	Aqueous					
13M22746.D	BLK	10/14/21 12:20	Aqueous					
13M22747.D	250PPB	10/14/21 12:37	Aqueous					
13M22750.D	BLK	10/14/21 13:50	Aqueous					
13M22762.D	BLK	10/14/21 17:12	Aqueous					
13M22763.D	BLK	10/14/21 17:28	Aqueous					
13M22764.D	CAL @ 250PPB	10/14/21 17:45	Aqueous	13M2277	9.4618	0.0994		
13M22765.D	CAL @ 500PPB	10/14/21 18:01	Aqueous	13M2277	9.4569	0.0476		
13M22766.D	CAL @ 750PPB	10/14/21 18:18	Aqueous	13M2277	9.4654	0.1374		
13M22767.D	CAL @ 1000PPB	10/14/21 18:34	Aqueous	13M2277	9.4625	0.1068		
13M22768.D	CAL @ 1500PPB	10/14/21 18:51	Aqueous	13M2277	9.4633	0.1152		
13M22769.D	CAL @ 2000PPB	10/14/21 19:07	Aqueous	13M2277	9.4578	0.0571		
13M22770.D	CAL @ 4000PPB	10/14/21 19:24	Aqueous	13M2277	9.4524	0		
13M22771.D	BLK	10/14/21 19:40	Aqueous	13M2277	9.4568	0.0465		
13M22772.D	BLK	10/14/21 19:56	Aqueous	13M2277	9.4565	0.0434		
13M22773.D	ICV	10/14/21 20:13	Aqueous	13M2277	9.4588	0.0677		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22778.D	CAL @ 2000PPB	10/15/21 09:37	Aqueous	13M2277	9.4865	0		
13M22781.D	DAILY BLANK	10/15/21 10:27	Methanol	13M2277	9.4939	0.078		
13M22782.D	AD26615-001	10/15/21 10:44	Methanol	13M2277	9.4753	0.1181		
13M22783.D	STD	10/15/21 11:00	Methanol	13M2277	9.4725	0.1477		
13M22784.D	26554-011	10/15/21 11:17	Methanol	13M2277	9.4793	0.0759		
13M22785.D	26554-011	10/15/21 11:34	Methanol	13M2277	0.0000	200		
13M22786.D	MBS96981	10/15/21 11:50	Methanol	13M2277	9.4818	0.0496		
13M22787.D	BLK	10/15/21 12:07	Methanol	13M2277	9.4804	0.0643		
13M22788.D	BLK	10/15/21 12:23	Methanol	13M2277	0.0000	200		
13M22789.D	AD26587-001	10/15/21 12:40	Methanol	13M2277	9.4819	0.0485		
13M22790.D	AD26587-002	10/15/21 12:57	Methanol	13M2277	9.4884	0.02		
13M22791.D	AD26587-003	10/15/21 13:13	Methanol	13M2277	9.4910	0.0474		
13M22792.D	AD26587-004	10/15/21 13:30	Methanol	13M2277	9.4898	0.0348		
13M22793.D	AD26587-005	10/15/21 13:47	Methanol	13M2277	9.4912	0.0495		
13M22794.D	AD26587-006	10/15/21 14:03	Methanol	13M2277	9.4975	0.1159		
13M22795.D	AD26587-007	10/15/21 14:20	Methanol	13M2277	9.4904	0.0411		
13M22796.D	AD26587-008	10/15/21 14:36	Methanol	13M2277	9.4810	0.058		
13M22797.D	AD26587-009	10/15/21 14:53	Methanol	13M2277	9.4906	0.0432		
13M22798.D	AD26587-010	10/15/21 15:10	Methanol	13M2277	9.4991	0.1327		
13M22799.D	AD26669-001	10/15/21 15:26	Methanol	13M2277	9.4952	0.0917		
13M22800.D	AD26554-011(MS)	10/15/21 15:43	Methanol	13M2277	9.4833	0.0337		
13M22801.D	AD26554-011(MSD)	10/15/21 15:59	Methanol	13M2277	9.4796	0.0728		
13M22802.D	BLK	10/15/21 16:16	Methanol	13M2277	9.4801	0.0675		
13M22803.D	CAL @ 2000PPB	10/15/21 16:33	Aqueous	13M2277	9.4749	0.1223		
13M22804.D	2000PPB	10/15/21 16:49	Aqueous	13M2280	9.4703	0.0486		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101503 0153

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M22400.	CAL @ 4000 PPB	08/23/21 23:10	2	13M22399.	CAL @ 2000 PPB	08/23/21 22:54
3	13M22398.	CAL @ 1500 PPB	08/23/21 22:37	4	13M22397.	CAL @ 1000 PPB	08/23/21 22:20
5	13M22396.	CAL @ 750 PPB	08/23/21 22:04	6	13M22395.	CAL @ 500 PPB	08/23/21 21:47
7	13M22394.	CAL @ 250 PPB	08/23/21 21:30				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1139	0.0882	0.0805	0.0759	0.0740	0.0701	0.0684	----	0.0816	9.47	-1	-1	19	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0008	0.0008	0.0012	0.0011	0.0009	0.0008	0.0007	----	0.000940	5.46	0.963	0.972	19	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0013	0.0012	0.0012	0.0012	0.0011	0.0011	0.0011	----	0.00122	9.27	1.00	1.00	4.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0626	0.0580	0.0606	0.0608	0.0615	0.0679	0.0799	----	0.0645	8.07	0.997	1.00	12	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 26.9 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1101503 0154

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M22770.	CAL @ 4000PPB	10/14/21 19:24	2	13M22769.	CAL @ 2000PPB	10/14/21 19:07
3	13M22768.	CAL @ 1500PPB	10/14/21 18:51	4	13M22767.	CAL @ 1000PPB	10/14/21 18:34
5	13M22766.	CAL @ 750PPB	10/14/21 18:18	6	13M22765.	CAL @ 500PPB	10/14/21 18:01
7	13M22764.	CAL @ 250PPB	10/14/21 17:45				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1111	0.0908	0.0815	0.0763	0.0721	0.0678	0.0649	----	0.0807	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000	----	.0000900	5.44	0.998	0.998	19	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0014	0.0014	0.0012	0.0013	0.0012	0.0010	0.0009	----	0.00125	9.27	0.998	0.999	15	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0663	0.0648	0.0559	0.0569	0.0612	0.0496	0.0472	----	0.0575	8.51	0.997	0.998	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 33.1 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:	13M22652.D	13M22683.D	13M22694.D	13M22720.D	13M22778.D
Method:	8015	8015	8015	8015	8015
Calibration Name:	CAL @ 2000 PPB	CAL @ 2000 PPB	CAL@ 2000PPB	CAL @ 2000PPB	CAL @ 2000PPB
Calibration Date/Time	10/04/21 10:07	10/04/21 18:49	10/11/21 10:14	10/11/21 17:27	10/15/21 09:37

Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	2168	2000	8.4	1940	2000	3.0	1814	2000	9.3	1933	2000	3.4	2281	2000	14.1

Flags/Notes: ** - Values outside of limits for this column/run*

Form7
Continuing Calibration

Method: EPA 8015D

Data File: 13M22803.D
Method: 8015
Calibration Name: CAL @ 2000PPB
Calibration Date/Time 10/15/21 16:33

Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
Gasoline Range Orga	20	1	0	2292	2000	14.6												

Flags/Notes: **** - Values outside of limits for this column/run***

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26669-001	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-004 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/15/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.22	5.8	1	0.5	100	10/18/21	96448	1821CNEW	47	MS	MS3_7700SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	10/18/21	96448	1821CNEW	47	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26669-001	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-004 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/15/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.6	16	1	0.5	50	10/18/21	96447	S27762A3	75	P	PEICP3A
7439-92-1	Lead	5.6	270	1	0.5	50	10/18/21	96447	S27762A3	75	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96447 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96447 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A
7440-09-7	Potassium	250	ND	1	0.5	50	10/19/21	96447	S27758B4	36	P	PEICPRAD4A
7440-23-5	Sodium	120	ND	1	0.5	50	10/19/21	96447	S27758B4	36	P	PEICPRAD4A
7440-66-6	Zinc	5.0	ND	1	0.5	50	10/18/21	96447	S27762A3	47	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96448 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96448 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.40	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	10/18/21	96448	1821CNEW	20	MS	IS3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/18/21
Data File: S27762A3
Prep Batch: 96447
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-356808-5	Rec	CCV V-356808-14	Rec	CCV V-356808-25	Rec	CCV V-356808-36	Rec	CCV V-356808-45	Rec	CCV V-356808-56	Rec	CCV V-356808-67	Rec	CCV V-356808-78	Rec
Aluminum	5/5	5.10483	102	5.05200	101	5.03054	101	5.03498	101	5.08403	102	5.07280	101	5.09117	102	5.09473	102
Barium	.5/.5	0.50718	101	0.49960	100	0.49919	100	0.49780	100	0.50056	100	0.50020	100	0.49927	100	0.49370	99
Boron	.5/.5	0.47923	96	0.46936	94	0.46454	93	0.46043	92	0.46283	93	0.46537	93	0.46249	92	0.45511	91
Calcium	50/50	51.95460	104	50.55070	101	50.82410	102	49.85360	100	50.95690	102	51.89260	104	51.75880	104	51.01800	102
Chromium	.5/.5	0.50917	102	0.50036	100	0.49827	100	0.49730	99	0.50054	100	0.49969	100	0.49754	100	0.49280	99
Cobalt	.5/.5	0.50782	102	0.50310	101	0.49605	99	0.49569	99	0.49936	100	0.50303	101	0.50239	100	0.49083	98
Copper	.5/.5	0.51207	102	0.50753	102	0.50563	101	0.50738	101	0.50924	102	0.50894	102	0.50943	102	0.50840	102
Iron	5/5	5.07322	101	5.01103	100	5.01712	100	5.00820	100	5.03522	101	5.04041	101	5.04796	101	4.98828	100
Lead	.5/.5	0.51312	103	0.51016	102	0.49834	100	0.49453	99	0.50083	100	0.50268	101	0.50136	100	0.48081	96
Magnesium	50/50	51.64570	103	50.73370	101	50.99520	102	50.60140	101	50.87760	102	50.81000	102	50.73700	101	49.69930	99
Manganese	.5/.5	0.50638	101	0.49825	100	0.49748	99	0.49661	99	0.49891	100	0.49738	99	0.49665	99	0.49071	98
Molybdenum	.5/.5	0.49987	100	0.49640	99	0.48348	97	0.48175	96	0.48406	97	0.48360	97	0.48115	96	0.46866	94
Nickel	.5/.5	0.50980	102	0.50281	101	0.49337	99	0.49202	98	0.49557	99	0.49594	99	0.49660	99	0.48519	97
Zinc	.5/.5	0.53157	106	0.52528	105	0.51402	103	0.50913	102	0.51048	102	0.51359	103	0.51061	102	0.49052	98

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 10/18/21
Data File: S27762A3
Prep Batch: 96444 | 96447
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-356809	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-356810	Recovery	Low Limit	High Limit
Magnesium	5.0	5.06909	101	80	120	500	464.234	93	90	110
Aluminum	2.0	1.96673	98	80	120	500	482.260	96	90	110
Arsenic	0.04	0.0396199	99	80	120	10	10.0580	101	90	110
Boron	0.2	0.180739	90	80	120	5	4.62208	92	90	110
Barium	0.1	0.101205	101	80	120	10	9.97713	100	90	110
Beryllium	0.012	0.0109106	91	80	120	5	4.72496	94	90	110
Calcium	10	9.84842	98	80	120	500	458.372	92	90	110
Cadmium	0.012	0.0134574	112	80	120	5	4.87982	98	90	110
Cerium	0.2	0.204	102	80	120	25	24.42	98	90	110
Cobalt	0.025	0.0249449	100	80	120	5	4.59444	92	90	110
Chromium	0.05	0.0508013	102	80	120	10	9.53556	95	90	110
Copper	0.05	0.0515013	103	80	120	10	10.2490	102	90	110
Silver	0.015	0.0153117	102	80	120	1	1.10324	110	90	110
Potassium	NA	-23.9609		80	120	200	549.238	275 a	90	110
Zinc	0.1	0.0944745	94	80	120	10	9.52546	95	90	110
Manganese	0.1	0.0991011	99	80	120	10	9.68344	97	90	110
Molybdenum	0.025	0.0257821	103	80	120	10	9.28164	93	90	110
Sodium	NA	2.92302		80	120	1000	1201.18	120 a	90	110
Nickel	0.05	0.0492971	99	80	120	10	9.03347	90	90	110
Lead	0.05	0.0507425	101	80	120	10	9.57377	96	90	110
Antimony	0.04	0.0394155	99	80	120	5	5.17568	104	90	110
Selenium	0.05	0.0443501	89	80	120	5	4.81807	96	90	110
Silicon	0.2	0.364477	182 a	80	120	25	25.4438	102	90	110
Tin	0.2	0.202593	101	80	120	10	9.81372	98	90	110
Titanium	0.1	0.0980764	98	80	120	10	9.95605	100	90	110
Thallium	0.05	0.0533778	107	80	120	5	4.84185	97	90	110
Vanadium	0.1	0.0986360	99	80	120	10	9.93236	99	90	110
Iron	2.0	1.99152	100	80	120	400	373.706	93	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/18/21
Data File: S101821CNEW
Prep Batch: 96448
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360001-9	Rec	CCV V-360005-18	Rec	CCV V-360005-30	Rec	CCV V-360005-42	Rec	CCV V-360005-51	Rec		Rec		Rec		Rec
Antimony	50/50	50.45000	101	50.74500	101	49.91200	100	49.00800	98	49.83900	100						
Arsenic	50/50	49.07700	98	48.67000	97	47.63500	95	47.17700	94	45.84800	92						
Beryllium	50/50	49.35200	99	52.57900	105	51.21200	102	49.03700	98	46.42300	93						
Cadmium	50/50	48.90300	98	50.30400	101	49.92200	100	48.36500	97	48.64900	97						
Selenium	50/250	49.05200	98	243.21400	97	239.79500	96	237.76000	95	225.60700	90						
Silver	10/50	9.86000	99	50.58400	101	49.98400	100	48.10300	96	48.38000	97						
Thallium	50/50	47.88600	96	52.26600	105	51.31800	103	50.35500	101	51.30500	103						
Vanadium	50/50	47.45500	95	47.98200	96	47.33300	95	47.25400	95	45.11300	90						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 10/18/21
Data File: S101821CNEW
Prep Batch: 96448
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360006	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360004	Recovery	Low Limit	High Limit
Magnesium	500	508.979	102	80	120	50000	49328.186	99	90	110
Aluminum	500	505.576	101	80	120	15000	14694.056	98	90	110
Arsenic	1	1.005	100	80	120	500	513.660	103	90	110
Barium	5	5.041	101	80	120	500	490.880	98	90	110
Beryllium	1	1.022	102	80	120	500	489.052	98	90	110
Calcium	500	520.549	104	80	120	50000	49336.892	99	90	110
Cadmium	2	2.019	101	80	120	500	497.022	99	90	110
Cobalt	2	2.009	100	80	120	500	486.126	97	90	110
Chromium	2	1.979	99	80	120	500	485.130	97	90	110
Copper	10	10.126	101	80	120	500	486.492	97	90	110
Silver	1	0.976	98	80	120	500	112.131	22 a	90	110
Potassium	500	520.377	104	80	120	50000	49118.794	98	90	110
Zinc	20	20.632	103	80	120	500	496.344	99	90	110
Manganese	6	6.107	102	80	120	500	485.327	97	90	110
Molybdenum	1	1.024	102	80	120	500	491.139	98	90	110
Sodium	500	564.697	113	80	120	50000	49887.053	100	90	110
Nickel	3	3.007	100	80	120	500	491.767	98	90	110
Lead	2	2.004	100	80	120	500	473.183	95	90	110
Antimony	4	3.986	100	80	120	500	495.074	99	90	110
Selenium	10	9.920	99	80	120	2500	2458.870	98	90	110
Thallium	2	2.041	102	80	120	500	481.215	96	90	110
Vanadium	1	0.983	98	80	120	500	493.034	99	90	110
Iron	500	514.177	103	80	120	50000	49474.571	99	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/18/21
Data File: S27762A3
Prep Batch: 96447
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-352951-6	CCB V-352951-15	CCB V-352951-26	CCB V-352951-37	CCB V-352951-46	CCB V-352951-57	CCB V-352951-68	CCB V-352951-79
Aluminum	1 U	2U	2U	2U	2 U	2U	2U	2U
Barium	.05 U	.1U	.1U	.1U	.1 U	.1U	.1U	.1U
Boron	.1 U	.2U	.2U	.2U	.2 U	.2U	.2U	.2U
Calcium	5 U	10U	10U	10U	10 U	10U	10U	10U
Chromium	.025 U	.05U	.05U	.05U	.05 U	.05U	.05U	.05U
Cobalt	.0125 U	.025U	.025U	.025U	.025 U	.025U	.025U	.025U
Copper	.025 U	.05U	.05U	.05U	.05 U	.05U	.05U	.05U
Iron	1 U	2U	2U	2U	2 U	2U	2U	2U
Lead	.025 U	.05U	.05U	.05U	.05 U	.05U	.05U	.05U
Magnesium	2.5 U	5U	5U	5U	5 U	5U	5U	5U
Manganese	.05 U	.1U	.1U	.1U	.1 U	.1U	.1U	.1U
Molybdenum	.0125 U	.025U	.025U	.025U	.025 U	.025U	.025U	.025U
Nickel	.025 U	.05U	.05U	.05U	.05 U	.05U	.05U	.05U
Zinc	.05 U	.1U	.1U	.1U	.1 U	.1U	.1U	.1U

Analyte	MB 96447 (100)-47
Aluminum	100 U
Barium	5 U
Boron	10 U
Calcium	500 U
Chromium	2.5 U
Cobalt	1.3 U
Copper	2.5 U
Iron	100 U
Lead	2.5 U
Magnesium	250 U
Manganese	5 U
Molybdenum	1.3 U
Nickel	2.5 U
Zinc	5 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/18/21
Data File: S101821CNEW
Prep Batch: 96448
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360002-11	CCB V-360002-19	CCB V-360002-31	CCB V-360002-43	CCB V-360002-52	MB 96448-20		
Antimony	2U	4U	4U	4U	4U	400U		
Arsenic	.5U	1U	1U	1U	1U	100U		
Beryllium	.5U	1U	1U	1U	1U	100U		
Cadmium	1U	2U	2U	2U	2U	200U		
Selenium	5U	10U	10U	10U	10U	1000U		
Silver	.5U	1U	1U	1U	1U	100U		
Thallium	1U	2U	2U	2U	2U	200U		
Vanadium	.5U	1U	1U	1U	1U	100U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/18/21
Data File: S27762A3
Prep Batch: 96447
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-352957-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	493.53€	99							
Barium	0	U								
Boron	0	U								
Calcium	500	483.54€	97							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	196.603	98							
Lead	0	U								
Magnesium	500	485.882	97							
Manganese	0	U								
Molybdenu	0	U								
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/18/21
Data File: S101821CNEW
Prep Batch: 96448
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101503

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360003-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	51316.16	103							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	156696.2	104							
Iron	125000	128497.1	103							
Magnesium	50000	51208.71	102							
Selenium	0	U								
Silver	0	U								
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96447

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96447

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96447	1	S27762A3	49	0.6613	.734	90		67	125
Lead	96447	1	S27762A3	49	1.7258	1.86	93		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96447

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96447	1	S27762A3	48	0.6543	.734	89		67	125
Lead	96447	1	S27762A3	48	1.7311	1.86	93		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96447	1	S27762A3	53	S27762A3	50	0.5718	0.0908	0.5	96		75	125
Lead	96447	1	S27762A3	53	S27762A3	50	2.2600	1.9168	0.5	69	a	75	125

TxtQcType: MS Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96447	1	S27762A3	52	S27762A3	50	0.5776	0.0908	0.5	97		75	125
Lead	96447	1	S27762A3	52	S27762A3	50	2.6591	1.9168	0.5	148	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96447

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD26666-002

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S27762A3	54	S27762A3	50	0.5758	0.0908	0.50	97		75	125
Lead	1	S27762A3	54	S27762A3	50	2.2753	1.9168	0.50	72	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96448

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96448

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96448	1	S101821C	22	216.3810	225	96		65	121
Cadmium	96448	1	S101821C	22	265.4410	249	107		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96448

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96448	1	S101821C	21	217.9320	225	97		65	121
Cadmium	96448	1	S101821C	21	264.9760	249	106		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96448	1	S101821C	27	S101821C	23	220.3100	19.0660	250	80		75	125
Cadmium	96448	1	S101821C	27	S101821C	23	223.7640	6.6100	250	87		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96448	1	S101821C	26	S101821C	23	235.5020	19.0660	250	87		75	125
Cadmium	96448	1	S101821C	26	S101821C	23	240.8250	6.6100	250	94		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96448

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS | Matrix: SOIL | SampleID: AD26666-002

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S101821C	28	S101821C	23	66.7120	19.0660	50	95		75	125
Cadmium	1	S101821C	28	S101821C	23	56.5720	6.6100	50	100		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96447

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96447

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96447	S27762A3	49	S27762A3	48	0.6613	0.6543	1.1		20
Lead	96447	S27762A3	49	S27762A3	48	1.7258	1.7311	.31		20

TxtQcType: MR Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96447	S27762A3	51	S27762A3	50	0.9328	0.0908	165	a	20
Lead	96447	S27762A3	51	S27762A3	50	5.2898	1.9168	94	a	20

TxtQcType: MSD Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96447	S27762A3	53	S27762A3	52	0.5718	0.5776	1		20
Lead	96447	S27762A3	53	S27762A3	52	2.2600	2.6591	16		20

TxtQcType: SD Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	96447	S27762A3	55	S27762A3	50	5	0.0147	0.0908	19	a	10
Lead	96447	S27762A3	55	S27762A3	50	5	0.3833	1.9168	0.013		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96448

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96448

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96448	S101821C	22	S101821C	21	216.3810	217.9320	.71	20
Cadmium	96448	S101821C	22	S101821C	21	265.4410	264.9760	.18	20

TxtQcType: MR Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96448	S101821C	24	S101821C	23	18.0430	19.0660	5.5	20
Cadmium	96448	S101821C	24	S101821C	23	6.1650	6.6100	7	20

TxtQcType: MSD Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96448	S101821C	27	S101821C	26	220.3100	235.5020	6.7	20
Cadmium	96448	S101821C	27	S101821C	26	223.7640	240.8250	7.3	20

TxtQcType: SD Matrix: SOIL SampleID: AD26666-002

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Arsenic	96448	S101821C	25	S101821C	23	5	3.8900	19.0660	2	20
Cadmium	96448	S101821C	25	S101821C	23	5	1.3550	6.6100	2.5	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S101821CN Sample ID: CalBlk V-359995 Sample Date 10/18/21 Sample Time: 15:00

IS ID:	Area	Area Limit		
Ho-1	3047118.43	2132982.901	-	3961253.959
In-1	3013780.48	2109646.336	-	3917914.624
Sc-1	2427926.77	1699548.739	-	3156304.801
Tb-1	3289302.66	2302511.862	-	4276093.458

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-359995	3	3047118.	3013780.	2427926.	3289302.				
SMP	RINSE	1	3041996.	2975968.	2325584.	3276666.				
SMP	RINSE	2	3031100.	2960207.	2337873.	3246027.				
CAL	CalStd1 V-35999	4	3078610.	3050976.	2456006.	3302876.				
CAL	CalStd2 V-35999	5	3053175.	3028766.	2468836.	3274598.				
CAL	CalStd3 V-35999	6	3072315.	3030443.	2457193.	3284672.				
CAL	CalStd4 V-35999	7	3094078.	3039552.	2435430.	3307607.				
CAL	CalStd5 V-36000	8	3105206.	3019271.	2377641.	3314668.				
ICV	ICV V-360001	9	3111933.	3024406.	2417700.	3346067.				
LLICV	LLICV V-360006	10	3081675.	3028147.	2398129.	3305585.				
ICB	ICB V-360002	11	3030505.	3016147.	2395146.	3265455.				
ICSA	ICSA V-360003	12	3067744.	2835462.	2351190.	3283648.				
SMP	RINSE	13	3163423.	3080018.	2342453.	3411567.				
LRS	LRS V-360004	14	3132002.	2968154.	2388420.	3349366.				
SMP	RINSE	15	3165620.	3056505.	2290341.	3379068.				
SMP	RINSE	16	3149175.	3043119.	2272166.	3413318.				
SMP	RINSE	17	3174080.	3015303.	2266908.	3381174.				
CCV	CCV V-360005	18	3173127.	3083079.	2367086.	3396439.				
CCB	CCB V-360002	19	3202374.	3079553.	2347377.	3438106.				
MB	MB 96448	20	3209732.	3071038.	2355622.	3397708.				
LCS	LCS 96448	21	3291425.	3162244.	2584975.	3520554.				
MR	LCS MR 96448	22	3358556.	3211030.	2600136.	3565581.				
SMP	AD26666-002	23	3336498.	3145091.	2713267.	3568080.				
MR	AD26666-002	24	3337291.	3135231.	2798934.	3573514.				
SD	AD26666-002	25	3284690.	3179712.	2498677.	3492493.				
MS	AD26666-002	26	3351826.	3194802.	2756633.	3560280.				
MSD	AD26666-002	27	3390190.	3221410.	2771148.	3598319.				
PS	AD26666-002	28	3405035.	3168531.	2716955.	3647907.				
SMP	RINSE	29	3269053.	3145862.	2355523.	3504396.				
CCV	CCV V-360005	30	3272983.	3122442.	2406946.	3502857.				
CCB	CCB V-360002	31	3264385.	3146984.	2375671.	3500041.				
SMP	AD26666-004	32	3402942.	3188412.	2864882.	3614698.				
SMP	AD26666-006	33	3381328.	3178165.	2663078.	3606566.				
SMP	AD26666-007	34	3389823.	3198480.	2816165.	3640196.				
SMP	AD26666-010	35	3368845.	3180389.	2970485.	3612664.				
SMP	AD26666-012	36	3340368.	3216223.	2993285.	3585545.				
SMP	AD26666-014	37	3533869.	3233520.	2828493.	3784622.				
SMP	AD26666-016	38	3601484.	3354016.	3042333.	3838112.				
SMP	AD26666-018	39	3514045.	3360409.	2960771.	3752413.				
SMP	AD26686-001	40	3541142.	3134538.	3221805.	* 3779531.				
SMP	RINSE	41	3276872.	3124426.	2276408.	3486016.				
CCV	CCV V-360005	42	3310320.	3168336.	2395264.	3525071.				
CCB	CCB V-360002	43	3258572.	3144761.	2408804.	3496668.				
SMP	AD26686-002	44	3477150.	3055998.	4190915.	* 3644870.				
SMP	AD26686-005	45	3504092.	3144785.	2967478.	3715183.				
SMP	AD26686-006	46	3533635.	3123371.	3430202.	* 3754951.				
SMP	AD26669-001	47	3505981.	3147585.	3253284.	* 3736046.				
SMP	AD26680-001	48	3423520.	3159751.	3202496.	* 3668865.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AD26677-001	49	3220944.	2982856.	2280288.	3427752.
SMP	RINSE	50	3531293.	3227396.	2265296.	3758586.
CCV	CCV V-360005	51	3519207.	3279004.	2361432.	3750443.
CCB	CCB V-360002	52	3512574.	3250637.	2285467.	3768909.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S101821CN Sample ID: CalBlk V-359995 Sample Date 10/18/21 Sample Time: 15:00

IS ID:	Area	Area Limit		
Ho-2	2229232.31	1560462.617	-	2898002.003
In-2	964956.64	675469.648	-	1254443.632
Sc-2	148292.77	103804.939	-	192780.601
Tb-2	2329573.94	1630701.758	-	3028446.122

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area		Area	Area	Area	Area
ISBLK	CalBlk V-359995	3	2229232.	964956.6	148292.7	2329573.					
SMP	RINSE	1	2299179.	993047.6	148248.9	2386810.					
SMP	RINSE	2	2257655.	991974.3	146204.5	2350114.					
CAL	CalStd1 V-35999	4	2240843.	972836.4	148833.2	2331775.					
CAL	CalStd2 V-35999	5	2245421.	981718.5	149857.8	2339580.					
CAL	CalStd3 V-35999	6	2243748.	976985.1	150675.6	2348396.					
CAL	CalStd4 V-35999	7	2246708.	979771.7	149449.5	2340369.					
CAL	CalStd5 V-36000	8	2231231.	960165.4	144620.1	2338906.					
ICV	ICV V-360001	9	2262374.	961054.5	144371.6	2335538.					
LLICV	LLICV V-360006	10	2261198.	976474.2	147779.9	2337942.					
ICB	ICB V-360002	11	2237322.	961610.1	145410.0	2309581.					
ICSA	ICSA V-360003	12	2196670.	886995.9	140406.4	2283473.					
SMP	RINSE	13	2321180.	969684.3	138246.4	2399718.					
LRS	LRS V-360004	14	2294861.	909142.8	137904.3	2341141.					
SMP	RINSE	15	2329448.	971720.3	136153.7	2416144.					
SMP	RINSE	16	2342350.	974039.6	137356.8	2417721.					
SMP	RINSE	17	2336019.	970275.1	137949.1	2412967.					
CCV	CCV V-360005	18	2290182.	964337.3	139292.6	2378661.					
CCB	CCB V-360002	19	2298947.	955606.6	139221.6	2377620.					
MB	MB 96448	20	2287837.	961167.7	139370.6	2382093.					
LCS	LCS 96448	21	2374716.	981815.7	152408.0	2452649.					
MR	LCS MR 96448	22	2374241.	989569.9	153490.8	2469019.					
SMP	AD26666-002	23	2388704.	980792.0	164933.6	2461819.					
MR	AD26666-002	24	2405908.	985262.3	168543.9	2503265.					
SD	AD26666-002	25	2341670.	1005666.	150296.1	2426332.					
MS	AD26666-002	26	2398755.	978754.7	162939.9	2475688.					
MSD	AD26666-002	27	2395144.	973931.7	159080.7	2475838.					
PS	AD26666-002	28	2413025.	978668.7	158727.5	2513407.					
SMP	RINSE	29	2390387.	998568.3	140863.8	2454052.					
CCV	CCV V-360005	30	2357041.	986779.8	140989.1	2451533.					
CCB	CCB V-360002	31	2340721.	973311.1	140940.2	2429428.					
SMP	AD26666-004	32	2436768.	983350.7	170343.4	2532331.					
SMP	AD26666-006	33	2393064.	976856.6	157126.4	2453349.					
SMP	AD26666-007	34	2424438.	979507.0	165449.7	2529750.					
SMP	AD26666-010	35	2398125.	988960.9	180801.7	2495131.					
SMP	AD26666-012	36	2444984.	987104.8	174613.6	2505442.					
SMP	AD26666-014	37	2485054.	980065.3	167291.9	2532528.					
SMP	AD26666-016	38	2485079.	999570.1	177485.8	2557557.					
SMP	AD26666-018	39	2455501.	1017723.	172476.8	2535483.					
SMP	AD26686-001	40	2481737.	954228.7	192880.6	*	2557703.				
SMP	RINSE	41	2351050.	969717.0	136087.9	2454130.					
CCV	CCV V-360005	42	2328327.	970940.3	139092.1	2409857.					
CCB	CCB V-360002	43	2315675.	965364.7	140108.3	2392745.					
SMP	AD26686-002	44	2445720.	929861.6	262635.7	*	2515331.				
SMP	AD26686-005	45	2464941.	960237.6	176422.6	2543320.					
SMP	AD26686-006	46	2519442.	952306.4	208127.4	*	2600173.				
SMP	AD26669-001	47	2498655.	947055.9	192563.2	2579166.					
SMP	AD26680-001	48	2442276.	953182.8	191723.4	2535511.					

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AD26677-001	49	2207345.	864070.6	123065.7	2281384.
SMP	RINSE	50	2424693.	951594.4	125802.2	2507419.
CCV	CCV V-360005	51	2405541.	954061.4	128504.9	2478359.
CCB	CCB V-360002	52	2400165.	948293.9	128186.5	2478819.

* Indicates Internal Standard Area outside of limits

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27762A3.txt

Analysis Date: 10/18/21 **Instrument:** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-352951	1	CAL	12:25	1							V-352951(ICB/CCB)
CALST2 V-356809	1	CAL	12:29	2							V-356809(LLICV/LLCCV soil)
CALST3 V-356806	1	CAL	12:33	3							V-356806(ICS3 - Middle Std)
CALST4 V-356807	1	CAL	12:36	4							V-356807(ICS4 High std)
ICV V-356808	1	ICV	12:39	5							V-356808(CCV)
ICB V-352951	1	ICB	12:42	6							V-352951(ICB/CCB)
LRS V-356810	1	LRS	12:46	7	PB-SOIL	SOIL	SOIL	SW846	96444		V-356810(LRS)
ICS3 V-356806	1	ICS	12:51	8							V-356806(ICS3 - Middle Std)
RINSE	1	NA	12:54	9	PB-SOIL	SOIL	SOIL	SW846	96444		0
LLICV V-356809	1	LLICV	12:58	10	PB-SOIL	SOIL	SOIL	SW846	96444		V-356809(LLICV/LLCCV soil)
ICSA V-352957	1	ICSA	13:01	11							V-352957(ICSA)
AD26436-001	1	SMP	13:06	12	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26436-002	1	SMP	13:10	13	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
CCV V-356808	1	CCV	13:13	14							V-356808(CCV)
CCB V-352951	1	CCB	13:16	15							V-352951(ICB/CCB)
MB 96444 (100)	1	MB	13:20	16	PB-SOIL	SOIL	SOIL	SW846	96444		0
LCS 96444	1	LCS	13:24	17	PB-SOIL	SOIL	SOIL	SW846	96444		0
LCS MR 96444	1	LCS	13:28	18	PB-SOIL	SOIL	SOIL	SW846	96444		0
AD26663-001	1	SMP	13:32	19	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26663-001	1	MR	13:36	20	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26663-001	1	MS	13:39	21	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26663-001	1	MSD	13:43	22	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26663-001	1	PS	13:46	23	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26663-001	5	SD	13:49	24	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
CCV V-356808	1	CCV	13:53	25							V-356808(CCV)
CCB V-352951	1	CCB	13:56	26							V-352951(ICB/CCB)
AD26605-001	1	SMP	14:00	27	MET-TAL6010S	SOIL	SOIL	SW846	96444	Fe>LRS not reported	0
AD26606-001	1	SMP	14:04	28	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26636-001	1	SMP	14:08	29	MET-TAL6010S	SOIL	SOIL	SW846	96444	Fe>LRS not reported	0
AD26657-001	1	SMP	14:12	30	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26662-002	1	SMP	14:16	31	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26664-001	1	SMP	14:19	32	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26625-001	1	SMP	14:23	33	MET-RCRA-S	SOIL	SOIL	SW846	96444		0
AD26632-002	1	SMP	14:27	34	MET-RCRA-S	SOIL	SOIL	SW846	96444		0
AD26649-001	1	SMP	14:31	35	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
CCV V-356808	1	CCV	14:35	36							V-356808(CCV)
CCB V-352951	1	CCB	14:39	37							V-352951(ICB/CCB)
AD26652-001	1	SMP	14:42	38	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26656-001	1	SMP	14:46	39	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26676-001	1	SMP	14:50	40	MET-TAL6010S	SOIL	SOIL	SW846	96444		0
AD26580-001	1	SMP	14:54	41	PB-SOIL	SOIL	SOIL	SW846	96444		0
AD26580-002	1	SMP	14:58	42	PB-SOIL	SOIL	SOIL	SW846	96444		0
AD26580-003	1	SMP	15:02	43	PB-SOIL	SOIL	SOIL	SW846	96444		0
AD26580-004	1	SMP	15:05	44	PB-SOIL	SOIL	SOIL	SW846	96444		0
CCV V-356808	1	CCV	15:09	45							V-356808(CCV)
CCB V-352951	1	CCB	15:12	46							V-352951(ICB/CCB)
MB 96447 (100)	1	MB	15:16	47		SOIL	SOIL	SW846	96447		0
LCS 96447	1	LCS	15:20	48		SOIL	SOIL	SW846	96447		0
LCS MR 96447	1	LCS	15:24	49		SOIL	SOIL	SW846	96447		0
AD26666-002	1	SMP	15:28	50	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-002	1	MR	15:31	51	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-002	1	MS	15:34	52	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-002	1	MSD	15:37	53	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-002	1	PS	15:41	54	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-002	5	SD	15:44	55	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
CCV V-356808	1	CCV	15:48	56							V-356808(CCV)
CCB V-352951	1	CCB	15:51	57							V-352951(ICB/CCB)
AD26666-004	1	SMP	15:54	58	MET-RCRA-S	SOIL	SOIL	SW846	96447	Pb>LRS not reported	0
AD26666-006	1	SMP	15:58	59	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-007	1	SMP	16:02	60	MET-RCRA-S	SOIL	SOIL	SW846	96447		0

Comments/Reviewedby:

dlucca
192.168.1.105 10/19/2021 6:48:01 AM

Run is OK. All elements reported except Na,K

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

10/27/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S101821CNEW.txt

Analysis Date: 10/18/21 **Instrument:** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	14:51	1		SOIL	SOIL	SW846	96448		0
RINSE	1	NA	14:56	2		SOIL	SOIL	SW846	96448		0
CalBlk V-359995	1	ISBLK	15:00	3		SOIL	SOIL				V-359995(Cal Blk WARNING)
CalStd1 V-359996	1	CAL	15:05	4							V-359996(Cal Std-1 WARNING)
CalStd2 V-359997	1	CAL	15:09	5							V-359997(Cal Std-2 WARNING)
CalStd3 V-359998	1	CAL	15:14	6							V-359998(Cal Std-3 WARNING)
CalStd4 V-359999	1	CAL	15:18	7							V-359999(Cal Std-4 WARNING)
CalStd5 V-360000	1	CAL	15:23	8							V-360000(Cal Std-5 WARNING)
ICV V-360001	1	ICV	15:27	9							V-360001(ICV WARNING)
LLICV V-360006	1	LLICV	15:31	10		SOIL	SOIL	SW846	96448		V-360006(LL-ICV/CCV SOIL WARNING)
ICB V-360002	1	ICB	15:36	11							V-360002(ICB/CCB WARNING)
ICSA V-360003	1	ICSA	15:40	12							V-360003(ICSA WARNING)
RINSE	1	NA	15:45	13		SOIL	SOIL	SW846	96448		0
LRS V-360004	1	LRS	15:49	14		SOIL	SOIL	SW846	96448	Ag fail.	V-360004(LRS WARNING)
RINSE	1	NA	15:53	15		SOIL	SOIL	SW846	96448		0
RINSE	1	NA	15:58	16		SOIL	SOIL	SW846	96448		0
RINSE	1	NA	16:02	17		SOIL	SOIL	SW846	96448		0
CCV V-360005	1	CCV	16:07	18							V-360005(CCV WARNING)
CCB V-360002	1	CCB	16:11	19							V-360002(ICB/CCB WARNING)
MB 96448	1	MB	16:15	20		SOIL	SOIL	SW846	96448		0
LCS 96448	1	LCS	16:20	21		SOIL	SOIL	SW846	96448		0
LCS MR 96448	1	LCS	16:24	22		SOIL	SOIL	SW846	96448		0
AD26666-002	1	SMP	16:28	23	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-002	1	MR	16:32	24	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-002	5	SD	16:37	25	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-002	1	MS	16:41	26	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-002	1	MSD	16:45	27	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-002	1	PS	16:49	28	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
RINSE	1	NA	16:54	29		SOIL	SOIL	SW846	96448		0
CCV V-360005	1	CCV	16:58	30							V-360005(CCV WARNING)
CCB V-360002	1	CCB	17:02	31							V-360002(ICB/CCB WARNING)
AD26666-004	1	SMP	17:07	32	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-006	1	SMP	17:11	33	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-007	1	SMP	17:16	34	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-010	1	SMP	17:20	35	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-012	1	SMP	17:24	36	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-014	1	SMP	17:29	37	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-016	1	SMP	17:33	38	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26666-018	1	SMP	17:37	39	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26686-001	1	SMP	17:41	40	MET-PP6020S	SOIL	SOIL	SW846	96448		0
RINSE	1	NA	17:46	41		SOIL	SOIL	SW846	96448		0
CCV V-360005	1	CCV	17:50	42							V-360005(CCV WARNING)
CCB V-360002	1	CCB	17:55	43							V-360002(ICB/CCB WARNING)
AD26686-002	1	SMP	17:59	44	MET-PP6020S	SOIL	SOIL	SW846	96448		0
AD26686-005	1	SMP	18:04	45	MET-PP6020S	SOIL	SOIL	SW846	96448		0
AD26686-006	1	SMP	18:08	46	MET-PP6020S	SOIL	SOIL	SW846	96448		0
AD26669-001	1	SMP	18:12	47	MET-RCRA-MS	SOIL	SOIL	SW846	96448		0
AD26680-001	1	SMP	18:16	48	MET-TAL6020S	SOIL	SOIL	SW846	96448		0
AD26677-001	1	SMP	18:21	49	MET-TAL6020S	SOIL	SOIL	SW846	96448		0
RINSE	1	NA	18:25	50		SOIL	SOIL	SW846	96448		0
CCV V-360005	1	CCV	18:30	51							V-360005(CCV WARNING)
CCB V-360002	1	CCB	18:34	52							V-360002(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 10/19/2021 11:23:51 AM

Run ok. Report Ag, As, Be, Cd, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 20 10/18/21

Standard/Batch/SnCl2 Lot #:

10/19/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27762A3.txt

Analysis Date: 10/18/21 **Instrument:** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
AD26666-010	1	SMP	16:06	61	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-012	1	SMP	16:09	62	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-014	1	SMP	16:12	63	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-016	1	SMP	16:15	64	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26666-018	1	SMP	16:19	65	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26686-001	1	SMP	16:22	66	MET-PP6010S	SOIL	SOIL	SW846	96447		0
CCV V-356808	1	CCV	16:26	67							V-356808(CCV)
CCB V-352951	1	CCB	16:29	68							V-352951(ICB/CCB)
AD26686-002	1	SMP	16:33	69	MET-PP6010S	SOIL	SOIL	SW846	96447		0
AD26686-005	1	SMP	16:37	70	MET-PP6010S	SOIL	SOIL	SW846	96447		0
AD26686-006	1	SMP	16:40	71	MET-PP6010S	SOIL	SOIL	SW846	96447		0
AD26660-001	1	SMP	16:44	72	PB-SOIL	SOIL	SOIL	SW846	96447		0
AD26660-002	1	SMP	16:48	73	PB-SOIL	SOIL	SOIL	SW846	96447		0
AD26643-003	1	SMP	16:52	74	PB-SOIL	SOIL	SOIL	SW846	96447		0
AD26669-001	1	SMP	16:56	75	MET-RCRA-S	SOIL	SOIL	SW846	96447		0
AD26677-001	1	SMP	17:00	76	MET-TAL6010S	SOIL	SOIL	SW846	96447	Ca,Cr,Cu,Fe,Ni>LRS not reported	0
AD26680-001	1	SMP	17:04	77	MET-TAL6010S	SOIL	SOIL	SW846	96447		0
CCV V-356808	1	CCV	17:08	78							V-356808(CCV)
CCB V-352951	1	CCB	17:11	79							V-352951(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 10/19/2021 6:48:01 AM

Run is OK All elements reported except Na,K

10/27/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 27769 Analyst: ANS

QC Number: 96447 Prep Date: 10/18/21

Matrix: Soil Reviewed By: BL

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	Soil	Soil				--	
LCS	0.5g					--	
LCSD						--	
1 26666-002							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -002							
MR -003							
MS -002							Balance used: 039
MSD -002							Pipettes used: 15, 149
2. 26666-004							
3. -006							Hot Block used: S
4. -008							
5. -010							
6. -012							
7. -014							
8. -016							
9. -018							
10. 26666-001							
11. -002							
12. -005							
13. -006							
14. 26600-001							
15. -002							
16. 26643-003							
17. 26669-001							
18. 26677-001							
19. 26680-001							
20.							

Hot Plate Temperature: 92.5 C (90-95° C) Start Time: 9:00 am End Time: 11:50 am

	Volume mL	Lot #
LCS, LCSD	0.5g	V-14201
LLLCS, LLLCSD		V-
MS, MSD	0.25g	V-13729, 13730
LLMS, LLMSD		V- 358096

Acid	Vol mL	Lot#
HNO_3	2.5	V-14216
HCl	5.0	V-14104
H_2O_2	1.5	V-14101

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By ANS Date 10/18/21

Received By BL Date 10/19/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER________

Batch No.: 27765 Analyst: ANS

QC Number: 90447 Prep Date: 10/18/21

Matrix: Soil 6020 Reviewed By: R

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml	25ml	50ml		--	
LCS	0.1g					--	
LCSD						--	
1. AD26666-002	0.5g						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR -002							
MS -002							Balance used: 039
MSD -002							Pipettes used: 157, 149
2. 26666-004							
3. -006							Hot Block used: 5
4. -007							
5. -010							
6. -012							
7. -014							
8. -016							
9. -018							
10. 26686-001							
11. -002							
12. -005							
13. -006							
14. ~~26660-001~~ NS							
15. ~~-002~~ 10/18							
16. AD26669-001							
17. AD26680-001							
18. 26677-001							
19.							
20.							

Hot Plate Temperature: 92.5 C (90-95° C) Start Time: 9:00am End Time: 11:40am

	Volume mL	Lot #
LCS, LCSD	0.1g	V-14201
LLLCS, LLLCSD		V-
MS, MSD	0.25ml	V-13729, 13730
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-14216
HCl	1.0	V-14104
H_2O_2	1.5	V-14181

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By ANS Date 10/18/21

Received By m Date 10/18/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1101503**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD26669-001	SB-004 SS	Soil	1	89	Percent			10/17/21	10/15/21	10/14/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12399

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD26681-004	86	86.29630	Percent	1.30	14.80	12.95	10/17/21	disham	0.059	5
Sample	AD26668-001	97	96.95683	Percent	1.31	15.44	15.01	10/17/21	disham		
Sample	AD26668-002	97	97.38112	Percent	1.28	15.79	15.41	10/17/21	disham		
Sample	AD26668-003	97	97.13147	Percent	1.26	13.81	13.45	10/17/21	disham		
Sample	AD26668-004	95	95.42231	Percent	1.29	16.80	16.09	10/17/21	disham		
Sample	AD26668-005	96	95.87426	Percent	1.30	16.57	15.94	10/17/21	disham		
Sample	AD26668-006	98	97.76496	Percent	1.28	15.15	14.84	10/17/21	disham		
Sample	AD26668-007	95	95.01805	Percent	1.30	15.15	14.46	10/17/21	disham		
Sample	AD26669-001	89	89.34491	Percent	1.31	13.98	12.62	10/17/21	disham		
Sample	AD26677-001	48	48.19977	Percent	1.30	9.91	5.46	10/17/21	disham		
Sample	AD26679-003	92	91.61631	Percent	1.29	14.53	13.42	10/17/21	disham		
Sample	AD26679-004	92	92.22756	Percent	1.29	13.77	12.81	10/17/21	disham		
Sample	AD26679-005	93	93.19527	Percent	1.29	11.43	10.74	10/17/21	disham		
Sample	AD26679-006	93	92.56595	Percent	1.29	13.80	12.87	10/17/21	disham		
Sample	AD26679-007	82	81.77083	Percent	1.29	10.89	9.14	10/17/21	disham		
Sample	AD26679-008	88	88.48739	Percent	1.27	13.17	11.80	10/17/21	disham		
Sample	AD26681-003	88	88.33710	Percent	1.28	14.57	13.02	10/17/21	disham		
Sample	AD26681-004	86	86.24511	Percent	1.29	16.63	14.52	10/17/21	disham		
Sample	AD26682-007	82	82.39550	Percent	1.30	13.74	11.54	10/17/21	disham		
Sample	AD26682-008	87	87.49004	Percent	1.30	13.85	12.28	10/17/21	disham		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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Project: CSA WMATA

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Andres Acosta

Received Date: 10/16/2021

Report Date: 11/29/2021

Deliverables: MDE-R

Lab ID: AD26715

Lab Project No: 1101601

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1101601

Sample Summary

Client: Intertek-PSI
Project: CSA WMATA

HC Project #: 1101601

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD26715-001	SB-006SS(14-16)	Soil/Terracore	10/15/2021	10/16/2021
AD26715-002	SB-005SS(2-4)	Soil/Terracore	10/15/2021	10/16/2021

HC Case Narrative

Client: Intertek-PSI **HC Project:** 1101601
Project: CSA WMATA

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in samples AD26715-001, -002 due to possible laboratory contamination.

Acetone was recovered in sample AD26715-001 due to possible laboratory contamination.

Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 95380 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

The Post Spike, Matrix Spike and/or Matrix Spike Duplicate for batch 96470 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 96470. Please refer to the applicable Form 6/9 for the recoveries.

The MS/MSD RPD had recoveries outside QC limits in batch 96470. Please refer to the applicable Form 6/9 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

11/29/21
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1101601

Project: CSA WMATA

Lab#: AD26715-001 **Sample ID: SB-006SS(14-16)**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	6.0	20	EPA 6010D
Lead	mg/kg	6.0	64	EPA 6010D
Arsenic	mg/kg	0.24	2.9	EPA 6020B
Acetone	mg/kg	0.010	0.012	EPA 8260D
Methylene chloride	mg/kg	0.0020	0.0027	EPA 8260D
Anthracene	mg/kg	0.040	0.16	EPA 8270E
Benzo[a]anthracene	mg/kg	0.040	0.74	EPA 8270E
Benzo[a]pyrene	mg/kg	0.040	0.66	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.040	0.87	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.040	0.44	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.040	0.26	EPA 8270E
Chrysene	mg/kg	0.040	0.60	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.040	0.12	EPA 8270E
Dibenzofuran	mg/kg	0.010	0.016	EPA 8270E
Fluoranthene	mg/kg	0.040	1.2	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.040	0.40	EPA 8270E
Phenanthrene	mg/kg	0.040	0.46	EPA 8270E
Pyrene	mg/kg	0.040	1.1	EPA 8270E

Lab#: AD26715-002 **Sample ID: SB-005SS(2-4)**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.6	37	EPA 6010D
Lead	mg/kg	5.6	15	EPA 6010D
Arsenic	mg/kg	0.22	2.0	EPA 6020B
Diesel Range Organics	mg/kg	67	120	EPA 8015D
Gasoline Range Organics	mg/kg	85	370	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	67	150	EPA 8015D
2-Butanone	mg/kg	0.0019	0.0059	EPA 8260D
Acetone	mg/kg	0.0097	0.041	EPA 8260D
Carbon disulfide	mg/kg	0.0033	0.0033	EPA 8260D
Isopropylbenzene	mg/kg	0.00097	0.012	EPA 8260D
Methylcyclohexane	mg/kg	0.0019	0.0021	EPA 8260D
Methylene chloride	mg/kg	0.0019	0.0036	EPA 8260D
Benzo[a]anthracene	mg/kg	0.037	0.058	EPA 8270E
Benzo[a]pyrene	mg/kg	0.037	0.060	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.037	0.086	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.037	0.049	EPA 8270E
bis(2-Ethylhexyl)phthalate	mg/kg	0.037	0.38	EPA 8270E
Chrysene	mg/kg	0.037	0.053	EPA 8270E
Fluoranthene	mg/kg	0.037	0.10	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.037	0.040	EPA 8270E
Naphthalene	mg/kg	0.011	0.034	EPA 8270E
Phenanthrene	mg/kg	0.037	0.048	EPA 8270E
Pyrene	mg/kg	0.037	0.11	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI
Project: CSA WMATA

HC Project #: 1101601

Sample ID: SB-006SS(14-16)
Lab#: AD26715-001
Matrix: Soil/Terracore

Collection Date: 10/15/2021
Receipt Date: 10/16/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		84

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	71	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	92.3	mg/kg	27	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	6.0	20
Lead	1	mg/kg	6.0	64

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.24	2.9
Cadmium	1	mg/kg	0.48	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.040	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.040	ND
1,2-Diphenylhydrazine	1	mg/kg	0.040	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.040	ND
2,4,5-Trichlorophenol	1	mg/kg	0.040	ND
2,4,6-Trichlorophenol	1	mg/kg	0.040	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.040	ND
2,6-Dinitrotoluene	1	mg/kg	0.040	ND
2-Chloronaphthalene	1	mg/kg	0.040	ND
2-Chlorophenol	1	mg/kg	0.040	ND
2-Methylnaphthalene	1	mg/kg	0.040	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.040	ND
2-Nitrophenol	1	mg/kg	0.040	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.040	ND
3-Nitroaniline	1	mg/kg	0.040	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.040	ND
4-Chloro-3-methylphenol	1	mg/kg	0.040	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.040	ND
4-Nitroaniline	1	mg/kg	0.040	ND

Sample ID: SB-006SS(14-16) **Collection Date:** 10/15/2021
Lab#: AD26715-001 **Receipt Date:** 10/16/2021
Matrix: Soil/Terracore

4-Nitrophenol	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Acetophenone	1	mg/kg	0.040	ND
Anthracene	**1**	**mg/kg**	**0.040**	**0.16**
Atrazine	1	mg/kg	0.040	ND
Benzaldehyde	1	mg/kg	0.43	ND
Benzidine	1	mg/kg	0.070	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.040**	**0.74**
Benzo[a]pyrene	**1**	**mg/kg**	**0.040**	**0.66**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.040**	**0.87**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.040**	**0.44**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.040**	**0.26**
Benzyl alcohol	1	mg/kg	0.040	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.040	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0099	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.040	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.040	ND
Butylbenzylphthalate	1	mg/kg	0.040	ND
Caprolactam	1	mg/kg	0.040	ND
Carbazole	1	mg/kg	0.040	ND
Chrysene	**1**	**mg/kg**	**0.040**	**0.60**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.040**	**0.12**
Dibenzofuran	**1**	**mg/kg**	**0.010**	**0.016**
Diethylphthalate	1	mg/kg	0.040	ND
Dimethylphthalate	1	mg/kg	0.040	ND
Di-n-butylphthalate	1	mg/kg	0.046	ND
Di-n-octylphthalate	1	mg/kg	0.040	ND
Fluoranthene	**1**	**mg/kg**	**0.040**	**1.2**
Fluorene	1	mg/kg	0.040	ND
Hexachlorobenzene	1	mg/kg	0.040	ND
Hexachlorobutadiene	1	mg/kg	0.040	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.040**	**0.40**
Isophorone	1	mg/kg	0.040	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.040	ND
N-Nitrosodimethylamine	1	mg/kg	0.049	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	**1**	**mg/kg**	**0.040**	**0.46**
Phenol	1	mg/kg	0.040	ND
Pyrene	**1**	**mg/kg**	**0.040**	**1.1**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	71	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.836	mg/kg	0.0020	ND
1,1,2,2-Tetrachloroethane	0.836	mg/kg	0.0020	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.836	mg/kg	0.0020	ND
1,1,2-Trichloroethane	0.836	mg/kg	0.0020	ND
1,1-Dichloroethane	0.836	mg/kg	0.0020	ND

Sample ID: SB-006SS(14-16) **Collection Date:** 10/15/2021
Lab#: AD26715-001 **Receipt Date:** 10/16/2021
Matrix: Soil/Terracore

1,1-Dichloroethene	0.836	mg/kg	0.0020	ND
1,2,3-Trichlorobenzene	0.836	mg/kg	0.0020	ND
1,2,4-Trichlorobenzene	0.836	mg/kg	0.0020	ND
1,2-Dibromo-3-chloropropane	0.836	mg/kg	0.0020	ND
1,2-Dibromoethane	0.836	mg/kg	0.00050	ND
1,2-Dichlorobenzene	0.836	mg/kg	0.0020	ND
1,2-Dichloroethane	0.836	mg/kg	0.0020	ND
1,2-Dichloropropane	0.836	mg/kg	0.0020	ND
1,3-Dichlorobenzene	0.836	mg/kg	0.0020	ND
1,4-Dichlorobenzene	0.836	mg/kg	0.0020	ND
1,4-Dioxane	0.836	mg/kg	0.10	ND
2-Butanone	0.836	mg/kg	0.0020	ND
2-Hexanone	0.836	mg/kg	0.0020	ND
4-Methyl-2-pentanone	0.836	mg/kg	0.0020	ND
Acetone	**0.836**	**mg/kg**	**0.010**	**0.012**
Acrolein	0.836	mg/kg	0.010	ND
Acrylonitrile	0.836	mg/kg	0.0020	ND
Benzene	0.836	mg/kg	0.0010	ND
Bromochloromethane	0.836	mg/kg	0.0020	ND
Bromodichloromethane	0.836	mg/kg	0.0020	ND
Bromoform	0.836	mg/kg	0.0020	ND
Bromomethane	0.836	mg/kg	0.0020	ND
Carbon disulfide	0.836	mg/kg	0.0034	ND
Carbon tetrachloride	0.836	mg/kg	0.0020	ND
Chlorobenzene	0.836	mg/kg	0.0020	ND
Chloroethane	0.836	mg/kg	0.0020	ND
Chloroform	0.836	mg/kg	0.0020	ND
Chloromethane	0.836	mg/kg	0.0020	ND
cis-1,2-Dichloroethene	0.836	mg/kg	0.0020	ND
cis-1,3-Dichloropropene	0.836	mg/kg	0.0020	ND
Cyclohexane	0.836	mg/kg	0.0020	ND
Dibromochloromethane	0.836	mg/kg	0.0020	ND
Dichlorodifluoromethane	0.836	mg/kg	0.0020	ND
Ethylbenzene	0.836	mg/kg	0.0010	ND
Isopropylbenzene	0.836	mg/kg	0.0010	ND
m&p-Xylenes	0.836	mg/kg	0.0012	ND
Methyl Acetate	0.836	mg/kg	0.0020	ND
Methylcyclohexane	0.836	mg/kg	0.0020	ND
Methylene chloride	**0.836**	**mg/kg**	**0.0020**	**0.0027**
Methyl-t-butyl ether	0.836	mg/kg	0.0010	ND
o-Xylene	0.836	mg/kg	0.0010	ND
Styrene	0.836	mg/kg	0.0020	ND
t-Butyl Alcohol	0.836	mg/kg	0.010	ND
Tetrachloroethene	0.836	mg/kg	0.0020	ND
Toluene	0.836	mg/kg	0.0010	ND
trans-1,2-Dichloroethene	0.836	mg/kg	0.0020	ND
trans-1,3-Dichloropropene	0.836	mg/kg	0.0020	ND
Trichloroethene	0.836	mg/kg	0.0020	ND
Trichlorofluoromethane	0.836	mg/kg	0.0020	ND
Vinyl chloride	0.836	mg/kg	0.0020	ND
Xylenes (Total)	0.836	mg/kg	0.0010	ND

Sample ID: SB-005SS(2-4)
Lab#: AD26715-002
Matrix: Soil/Terracore

Collection Date: 10/15/2021
Receipt Date: 10/16/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	67	120

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	303	mg/kg	85	370

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.6	37
Lead	1	mg/kg	5.6	15

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.22	2.0
Cadmium	1	mg/kg	0.45	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.037	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.037	ND
1,2-Diphenylhydrazine	1	mg/kg	0.037	ND
1,4-Dioxane	1	mg/kg	0.019	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.037	ND
2,4,5-Trichlorophenol	1	mg/kg	0.037	ND
2,4,6-Trichlorophenol	1	mg/kg	0.037	ND
2,4-Dichlorophenol	1	mg/kg	0.014	ND
2,4-Dimethylphenol	1	mg/kg	0.018	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.037	ND
2,6-Dinitrotoluene	1	mg/kg	0.037	ND
2-Chloronaphthalene	1	mg/kg	0.037	ND
2-Chlorophenol	1	mg/kg	0.037	ND
2-Methylnaphthalene	1	mg/kg	0.037	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.037	ND
2-Nitrophenol	1	mg/kg	0.037	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.037	ND
3-Nitroaniline	1	mg/kg	0.037	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.037	ND
4-Chloro-3-methylphenol	1	mg/kg	0.037	ND
4-Chloroaniline	1	mg/kg	0.016	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.037	ND
4-Nitroaniline	1	mg/kg	0.037	ND
4-Nitrophenol	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Acetophenone	1	mg/kg	0.037	ND
Anthracene	1	mg/kg	0.037	ND
Atrazine	1	mg/kg	0.037	ND

Sample ID: SB-005SS(2-4) **Collection Date:** 10/15/2021
Lab#: AD26715-002 **Receipt Date:** 10/16/2021
Matrix: Soil/Terracore

Benzaldehyde	1	mg/kg	0.41	ND
Benzidine	1	mg/kg	0.066	ND
Benzo[a]anthracene	1	mg/kg	0.037	0.058
Benzo[a]pyrene	1	mg/kg	0.037	0.060
Benzo[b]fluoranthene	1	mg/kg	0.037	0.086
Benzo[g,h,i]perylene	1	mg/kg	0.037	0.049
Benzo[k]fluoranthene	1	mg/kg	0.037	ND
Benzyl alcohol	1	mg/kg	0.037	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.037	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0094	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.037	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.037	0.38
Butylbenzylphthalate	1	mg/kg	0.037	ND
Caprolactam	1	mg/kg	0.037	ND
Carbazole	1	mg/kg	0.037	ND
Chrysene	1	mg/kg	0.037	0.053
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Dibenzofuran	1	mg/kg	0.0095	ND
Diethylphthalate	1	mg/kg	0.037	ND
Dimethylphthalate	1	mg/kg	0.037	ND
Di-n-butylphthalate	1	mg/kg	0.043	ND
Di-n-octylphthalate	1	mg/kg	0.037	ND
Fluoranthene	1	mg/kg	0.037	0.10
Fluorene	1	mg/kg	0.037	ND
Hexachlorobenzene	1	mg/kg	0.037	ND
Hexachlorobutadiene	1	mg/kg	0.037	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.037	0.040
Isophorone	1	mg/kg	0.037	ND
Naphthalene	1	mg/kg	0.011	0.034
Nitrobenzene	1	mg/kg	0.037	ND
N-Nitrosodimethylamine	1	mg/kg	0.046	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.014	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	1	mg/kg	0.037	0.048
Phenol	1	mg/kg	0.037	ND
Pyrene	1	mg/kg	0.037	0.11

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	67	150

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.862	mg/kg	0.0019	ND
1,1,2,2-Tetrachloroethane	0.862	mg/kg	0.0019	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.862	mg/kg	0.0019	ND
1,1,2-Trichloroethane	0.862	mg/kg	0.0019	ND
1,1-Dichloroethane	0.862	mg/kg	0.0019	ND
1,1-Dichloroethene	0.862	mg/kg	0.0019	ND
1,2,3-Trichlorobenzene	0.862	mg/kg	0.0019	ND
1,2,4-Trichlorobenzene	0.862	mg/kg	0.0019	ND
1,2-Dibromo-3-chloropropane	0.862	mg/kg	0.0019	ND
1,2-Dibromoethane	0.862	mg/kg	0.00048	ND
1,2-Dichlorobenzene	0.862	mg/kg	0.0019	ND

Sample ID: SB-005SS(2-4) **Collection Date:** 10/15/2021
Lab#: AD26715-002 **Receipt Date:** 10/16/2021
Matrix: Soil/Terracore

1,2-Dichloroethane	0.862	mg/kg	0.0019	ND
1,2-Dichloropropane	0.862	mg/kg	0.0019	ND
1,3-Dichlorobenzene	0.862	mg/kg	0.0019	ND
1,4-Dichlorobenzene	0.862	mg/kg	0.0019	ND
1,4-Dioxane	0.862	mg/kg	0.097	ND
2-Butanone	**0.862**	**mg/kg**	**0.0019**	**0.0059**
2-Hexanone	0.862	mg/kg	0.0019	ND
4-Methyl-2-pentanone	0.862	mg/kg	0.0019	ND
Acetone	**0.862**	**mg/kg**	**0.0097**	**0.041**
Acrolein	0.862	mg/kg	0.0097	ND
Acrylonitrile	0.862	mg/kg	0.0019	ND
Benzene	0.862	mg/kg	0.00097	ND
Bromochloromethane	0.862	mg/kg	0.0019	ND
Bromodichloromethane	0.862	mg/kg	0.0019	ND
Bromoform	0.862	mg/kg	0.0019	ND
Bromomethane	0.862	mg/kg	0.0019	ND
Carbon disulfide	**0.862**	**mg/kg**	**0.0033**	**0.0033**
Carbon tetrachloride	0.862	mg/kg	0.0019	ND
Chlorobenzene	0.862	mg/kg	0.0019	ND
Chloroethane	0.862	mg/kg	0.0019	ND
Chloroform	0.862	mg/kg	0.0019	ND
Chloromethane	0.862	mg/kg	0.0019	ND
cis-1,2-Dichloroethene	0.862	mg/kg	0.0019	ND
cis-1,3-Dichloropropene	0.862	mg/kg	0.0019	ND
Cyclohexane	0.862	mg/kg	0.0019	ND
Dibromochloromethane	0.862	mg/kg	0.0019	ND
Dichlorodifluoromethane	0.862	mg/kg	0.0019	ND
Ethylbenzene	0.862	mg/kg	0.00097	ND
Isopropylbenzene	**0.862**	**mg/kg**	**0.00097**	**0.012**
m&p-Xylenes	0.862	mg/kg	0.0012	ND
Methyl Acetate	0.862	mg/kg	0.0019	ND
Methylcyclohexane	**0.862**	**mg/kg**	**0.0019**	**0.0021**
Methylene chloride	**0.862**	**mg/kg**	**0.0019**	**0.0036**
Methyl-t-butyl ether	0.862	mg/kg	0.00097	ND
o-Xylene	0.862	mg/kg	0.00097	ND
Styrene	0.862	mg/kg	0.0019	ND
t-Butyl Alcohol	0.862	mg/kg	0.0097	ND
Tetrachloroethene	0.862	mg/kg	0.0019	ND
Toluene	0.862	mg/kg	0.00097	ND
trans-1,2-Dichloroethene	0.862	mg/kg	0.0019	ND
trans-1,3-Dichloropropene	0.862	mg/kg	0.0019	ND
Trichloroethene	0.862	mg/kg	0.0019	ND
Trichlorofluoromethane	0.862	mg/kg	0.0019	ND
Vinyl chloride	0.862	mg/kg	0.0019	ND
Xylenes (Total)	0.862	mg/kg	0.00097	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: CSA WMATA

HC Project #: 1101601

Lab#: AD26715-001 **Sample ID: SB-006SS(14-16)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/19/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/27/21 10:35	Lynda	EPA 8015D	10/27/21 15:02	AH/ABM
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/18/21 10:37	JM
RCRA Metals 6010D	3005&10/3050	10/22/21 08:00	asilva	EPA 6010D	10/22/21 13:56	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	10/22/21 08:00	asilva	EPA 6020B	10/22/21 14:05	PC
Semivolatile Organics (no search) 8270	3510C/3550C	10/26/21 09:41	AT	EPA 8270E	10/26/21 19:45	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/27/21 10:35	Lynda	EPA 8015D	10/27/21 15:02	AH/ABM
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/19/21 07:40	WP

Lab#: AD26715-002 **Sample ID: SB-005SS(2-4)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/19/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/27/21 10:35	Lynda	EPA 8015D	10/27/21 15:27	AH/ABM
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/18/21 10:54	JM
RCRA Metals 6010D	3005&10/3050	10/22/21 08:00	asilva	EPA 6010D	10/22/21 14:00	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	10/22/21 08:00	asilva	EPA 6020B	10/22/21 14:10	PC
Semivolatile Organics (no search) 8270	3510C/3550C	10/26/21 09:41	AT	EPA 8270E	10/26/21 20:08	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/27/21 10:35	Lynda	EPA 8015D	10/27/21 15:27	AH/ABM
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/19/21 08:01	WP

Chain of Custody

1101601 0013

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1101601

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlok - 1051
Address: 2930 Eskridge Rd
Fairfax, VA
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Andrea.acosta@interlok.com
1d) Send Report to: Andrea + Lindsay.renthlei@interlok.com

Project Information

2a) Project: CSA WMATA
2b) Project Mgr:
2c) Project Location (City/State):
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # A32671

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH - DRO/GRO	4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
001	SB-00655(14-16)	S	10/15/21	1330		X	X	X	X	X	1	1						2	
002	SB-00555(2-4)	S	10/15/21	1445		X	X	X	X	X	1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX		
FEDEX	[signature]	10/16/21	12:00

11) Sampler (print name): LINDSAY RENTHLEI Date: 10/15/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.6

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD26715 Entered By: maxwell

Date Entered 10/16/2021 12:08:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.6
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD26715-001	10/16/21 12:00	MAXW	0	M	Received
AD26715-001	10/16/21 12:08	MAXW	0	M	Login
AD26715-001	10/16/21 13:33	R12	1	A	NONE
AD26715-001	10/16/21 13:37	R12	1	A	NONE
AD26715-001	10/18/21 21:03	PA	1	A	mx
AD26715-001	10/18/21 21:04	R12	1	A	NONE
AD26715-001	10/19/21 08:44	BCT	1	A	SOLIDS
AD26715-001	10/19/21 10:15	R12	1	A	NONE
AD26715-001	10/22/21 08:19	ANS	1	A	TDSI
AD26715-001	10/22/21 09:25	KEVS	1	A	HG
AD26715-001	10/22/21 09:27	R12	1	A	NONE
AD26715-001	10/26/21 09:41	AT	1	A	BNA
AD26715-001	10/26/21 13:21	R12	1	A	NONE
AD26715-001	10/27/21 10:35	LV	1	A	TPH
AD26715-001	10/16/21 12:13	R31	2	A	NONE
AD26715-001	10/18/21 13:03	SG	2	A	VOA
AD26715-001	10/18/21 13:05	R31	2	A	NONE
AD26715-001	10/16/21 12:13	F19	3	A	NONE
AD26715-001	10/16/21 12:13	F19	4	A	NONE
AD26715-001	10/18/21 22:09	WP	4	A	VOA
AD26715-002	10/16/21 12:00	MAXW	0	M	Received
AD26715-002	10/16/21 12:08	MAXW	0	M	Login
AD26715-002	10/16/21 13:33	R12	1	A	NONE
AD26715-002	10/16/21 13:37	R12	1	A	NONE
AD26715-002	10/18/21 21:03	PA	1	A	mx
AD26715-002	10/18/21 21:04	R12	1	A	NONE
AD26715-002	10/19/21 08:44	BCT	1	A	SOLIDS
AD26715-002	10/19/21 10:15	R12	1	A	NONE
AD26715-002	10/22/21 08:19	ANS	1	A	TDSI
AD26715-002	10/22/21 09:25	KEVS	1	A	HG
AD26715-002	10/22/21 09:27	R12	1	A	NONE
AD26715-002	10/26/21 09:41	AT	1	A	BNA
AD26715-002	10/26/21 13:21	R12	1	A	NONE
AD26715-002	10/27/21 10:35	LV	1	A	TPH
AD26715-002	10/16/21 12:13	R31	2	A	NONE
AD26715-002	10/18/21 13:03	SG	2	A	VOA
AD26715-002	10/18/21 13:05	R31	2	A	NONE
AD26715-002	10/16/21 12:13	F19	3	A	NONE
AD26715-002	10/16/21 12:13	F19	4	A	NONE
AD26715-002	10/18/21 22:09	WP	4	A	VOA

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26715-001
Client Id: SB-006SS(14-16)
Data File: 2M158376.D
Analysis Date: 10/19/21 07:40
Date Rec/Extracted: 10/16/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.98g
Final Vol: NA
Dilution: 0.836
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	**75-09-2**	**Methylene Chloride**	**0.0020**	**0.0027**
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	**Acetone**	**0.010**	**0.012**	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U	1330-20-7	Xylenes (Total)	0.0010	U

Worksheet #: 614805

Total Target Concentration 0.015

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

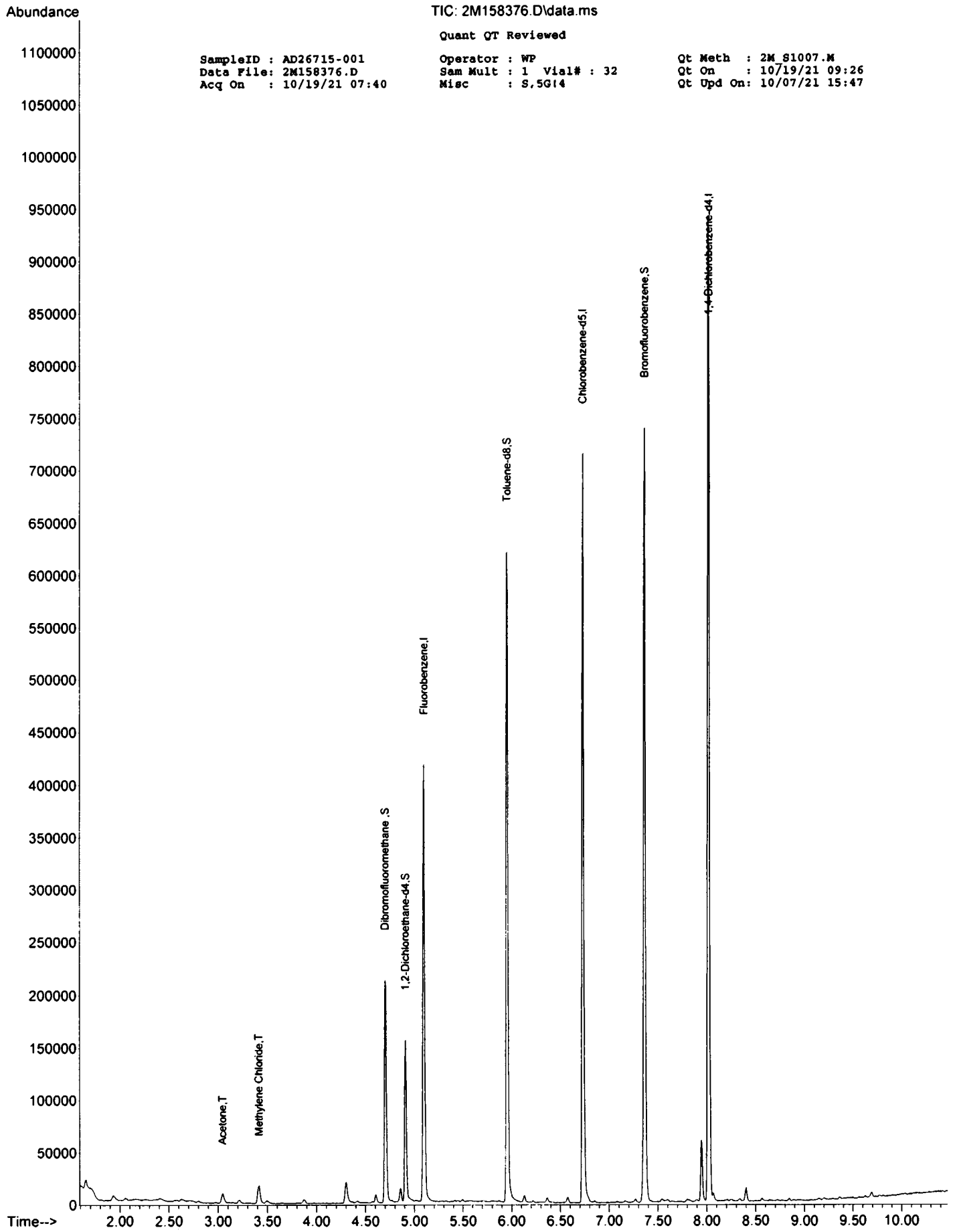
Quantitation Report (QT Reviewed)

SampleID : AD26715-001 Operator : WP Qt Meth : 2M_S1007.M
Data File: 2M158376.D Sam Mult : 1 Vial# : 32 Qt On : 10/19/21 09:26
Acq On : 10/19/21 07:40 Misc : S,5G!4 Qt Upd On: 10/07/21 15:47

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-1821\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.098	96	250083	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	311874	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.025	152	225407	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	83831	33.02	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.07%			
39) 1,2-Dichloroethane-d4	4.909	67	36269	31.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.13%			
66) Toluene-d8	5.952	98	284763	26.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.60%			
76) Bromofluorobenzene	7.366	174	195756	31.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.47%			
Target Compounds						Qvalue
15) Methylene Chloride	3.416	84	7140	2.6976	ug/l	84
19) Acetone	3.044	43	11465	11.8726	ug/l	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M158376.D\data.ms
Quant QT Reviewed
SampleID : AD26715-001
Data File: 2M158376.D
Acq On : 10/19/21 07:40
Operator : WP
Sam Mult : 1 Vial# : 32
Misc : S,5G14
Qt Meth : 2M_S1007.M
Qt On : 10/19/21 09:26
Qt Upd On: 10/07/21 15:47
Acetone,T
Methylene Chloride,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26715-002
Client Id: SB-005SS(2-4)
Data File: 2M158377.D
Analysis Date: 10/19/21 08:01
Date Rec/Extracted: 10/16/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.8g
Final Vol: NA
Dilution: 0.862
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0019	U	56-23-5	Carbon Tetrachloride	0.0019	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0019	U	108-90-7	Chlorobenzene	0.0019	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0019	U	75-00-3	Chloroethane	0.0019	U
79-00-5	1,1,2-Trichloroethane	0.0019	U	67-66-3	Chloroform	0.0019	U
75-34-3	1,1-Dichloroethane	0.0019	U	74-87-3	Chloromethane	0.0019	U
75-35-4	1,1-Dichloroethene	0.0019	U	156-59-2	cis-1,2-Dichloroethene	0.0019	U
87-61-6	1,2,3-Trichlorobenzene	0.0019	U	10061-01-5	cis-1,3-Dichloropropene	0.0019	U
120-82-1	1,2,4-Trichlorobenzene	0.0019	U	110-82-7	Cyclohexane	0.0019	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0019	U	124-48-1	Dibromochloromethane	0.0019	U
106-93-4	1,2-Dibromoethane	0.00048	U	75-71-8	Dichlorodifluoromethane	0.0019	U
95-50-1	1,2-Dichlorobenzene	0.0019	U	100-41-4	Ethylbenzene	0.00097	U
107-06-2	1,2-Dichloroethane	0.0019	U	**98-82-8**	**Isopropylbenzene**	**0.00097**	**0.012**
78-87-5	1,2-Dichloropropane	0.0019	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0019	U	79-20-9	Methyl Acetate	0.0019	U
106-46-7	1,4-Dichlorobenzene	0.0019	U	**108-87-2**	**Methylcyclohexane**	**0.0019**	**0.0021**
123-91-1	1,4-Dioxane	0.097	U	**75-09-2**	**Methylene Chloride**	**0.0019**	**0.0036**
78-93-3	**2-Butanone**	**0.0019**	**0.0059**	1634-04-4	Methyl-t-butyl ether	0.00097	U
591-78-6	2-Hexanone	0.0019	U	95-47-6	o-Xylene	0.00097	U
108-10-1	4-Methyl-2-Pentanone	0.0019	U	100-42-5	Styrene	0.0019	U
67-64-1	**Acetone**	**0.0097**	**0.041**	75-65-0	t-Butyl Alcohol	0.0097	U
107-02-8	Acrolein	0.0097	U	127-18-4	Tetrachloroethene	0.0019	U
107-13-1	Acrylonitrile	0.0019	U	108-88-3	Toluene	0.00097	U
71-43-2	Benzene	0.00097	U	156-60-5	trans-1,2-Dichloroethene	0.0019	U
74-97-5	Bromochloromethane	0.0019	U	10061-02-6	trans-1,3-Dichloropropene	0.0019	U
75-27-4	Bromodichloromethane	0.0019	U	79-01-6	Trichloroethene	0.0019	U
75-25-2	Bromoform	0.0019	U	75-69-4	Trichlorofluoromethane	0.0019	U
74-83-9	Bromomethane	0.0019	U	75-01-4	Vinyl Chloride	0.0019	U
75-15-0	**Carbon Disulfide**	**0.0033**	**0.0033**	1330-20-7	Xylenes (Total)	0.00097	U

Worksheet #: 614805

Total Target Concentration 0.068

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

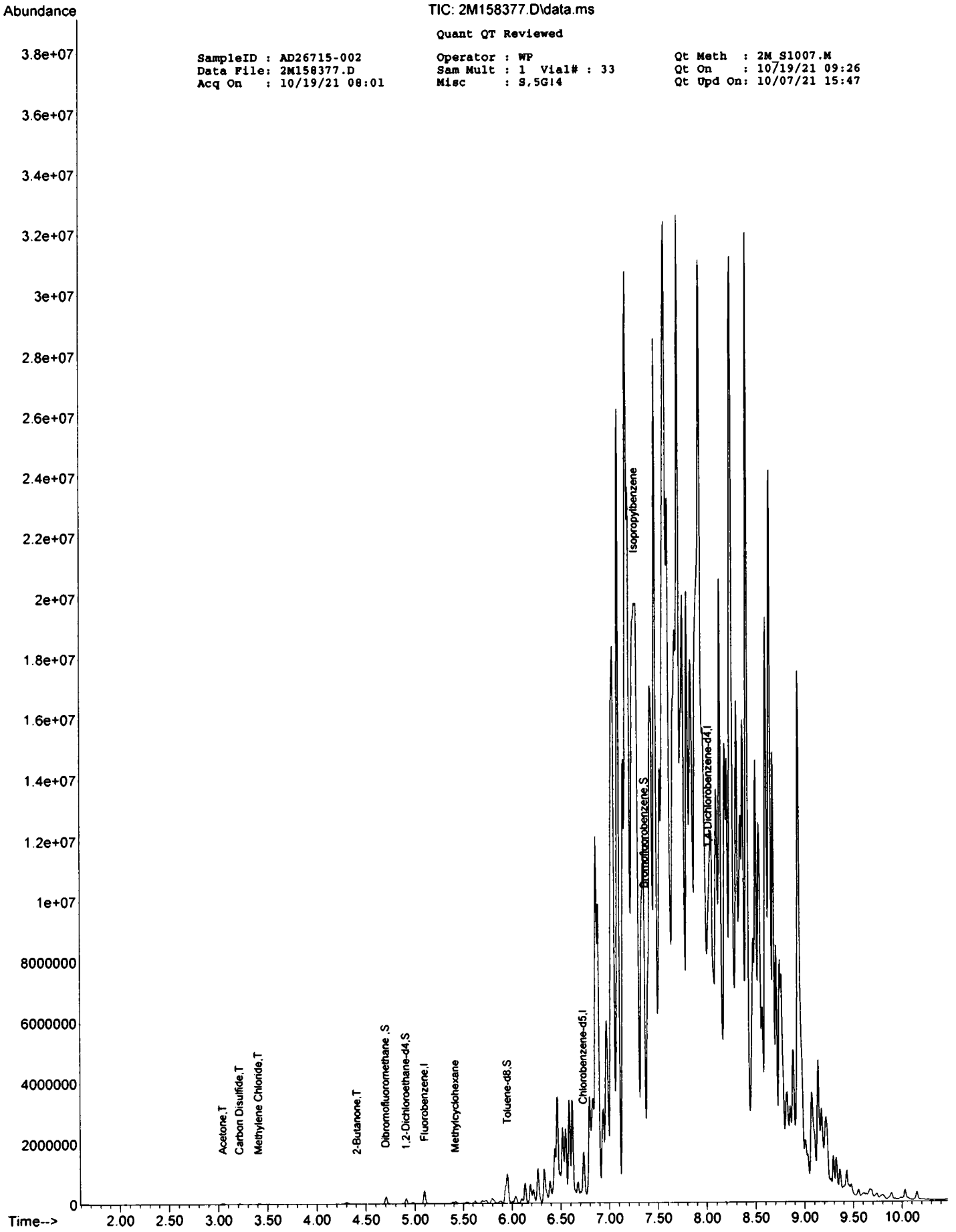
Quantitation Report (QT Reviewed)

SampleID : AD26715-002 Operator : WP Qt Meth : 2M_S1007.M
Data File: 2M158377.D Sam Mult : 1 Vial# : 33 Qt On : 10/19/21 09:26
Acq On : 10/19/21 08:01 Misc : S,5G!4 Qt Upd On: 10/07/21 15:47

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-1821\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	265415	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	328640	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.025	152	320343	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	88858	32.98	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.93%			
39) 1,2-Dichloroethane-d4	4.910	67	37425	30.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.23%			
66) Toluene-d8	5.952	98	331756	29.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.87%			
76) Bromofluorobenzene	7.367	174	209303	23.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 77.83%			
Target Compounds						Qvalue
15) Methylene Chloride	3.410	84	10310	3.6703	ug/l	87
19) Acetone	3.044	43	43205	42.2570	ug/l	83
20) Carbon Disulfide	3.215	76	26343	3.4481	ug/l	100
41) 2-Butanone	4.410	43	7871m	6.0706	ug/l	
46) Methylcyclohexane	5.416	83	10115	2.1689	ug/l	87
84) Isopropylbenzene	7.269	105	288026	12.8045	ug/l	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M158377.D\data.ms
Quant QT Reviewed
SampleID : AD26715-002
Data File: 2M158377.D
Acq On : 10/19/21 08:01
Operator : WP
Sam Mult : 1 Vial# : 33
Misc : S,5G14
Qt Meth : 2M_S1007.M
Qt On : 10/19/21 09:26
Qt Upd On: 10/07/21 15:47
3.8e+07
3.6e+07
3.4e+07
3.2e+07
3e+07
2.8e+07
2.6e+07
2.4e+07
2.2e+07
2e+07
1.8e+07
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Acetone,T
Carbon Disulfide,T
Methylene Chloride,T
2-Butanone,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Methylcyclohexane
Toluene-d8,S
Chlorobenzene-d5,I
Isopropylbenzene
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M158352.D
Analysis Date: 10/18/21 23:14
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 614805

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

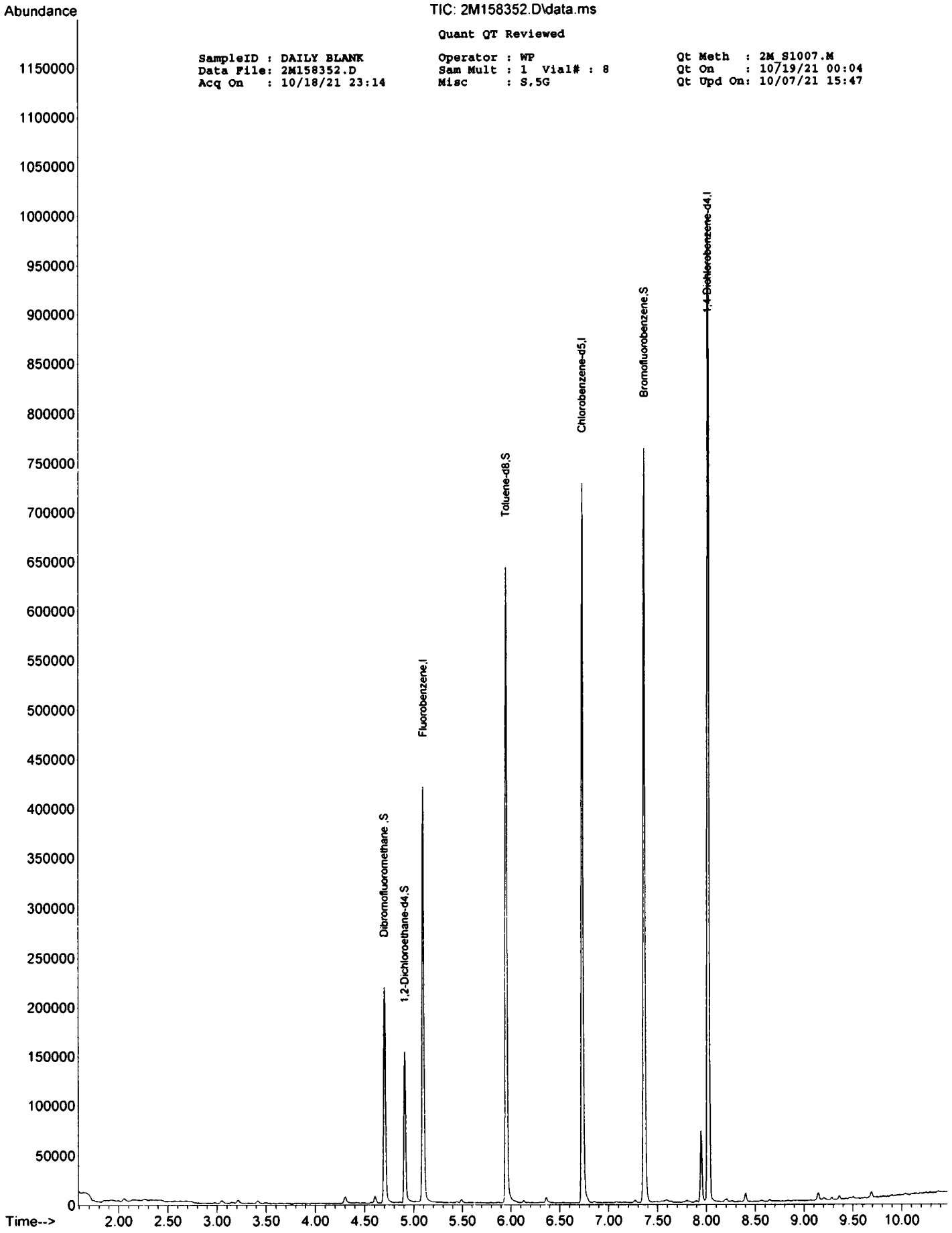
SampleID : DAILY BLANK Operator : WP Qt Meth : 2M_S1007.M
Data File: 2M158352.D Sam Mult : 1 Vial# : 8 Qt On : 10/19/21 00:04
Acq On : 10/18/21 23:14 Misc : S,5G Qt Upd On: 10/07/21 15:47

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-1821\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	258467	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	316302	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	237380	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	84013	32.02	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.73%			
39) 1,2-Dichloroethane-d4	4.910	67	35346	29.45	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.17%			
66) Toluene-d8	5.952	98	289750	26.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.90%			
76) Bromofluorobenzene	7.367	174	200211	30.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.47%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M158352.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M158352.D
Acq On : 10/18/21 23:14
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : S,5G
Qt Meth : 2M_S1007.M
Qt On : 10/19/21 00:04
Qt Upd On: 10/07/21 15:47
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2M158352.D	DAILY BLANK	S	10/18/21 23:14	1		107	98	88	100		
2M158376.D	AD26715-001	S	10/19/21 07:40	1		110	104	88	103		
2M158377.D	AD26715-002	S	10/19/21 08:01	1		110	101	97	78		
2M158353.D	AD26668-001	S	10/18/21 23:35	1		108	100	87	104		
2M158354.D	MBS96992	S	10/18/21 23:56	1		110	99	90	103		
2M158355.D	AD26668-002(MS:AD26	S	10/19/21 00:17	1		108	98	89	104		
2M158356.D	AD26668-003(MSD:AD2	S	10/19/21 00:38	1		109	95	88	104		

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96992

Data File: Spike or Dup: 2M158354.D
Sample ID: MBS96992
Analysis Date: 10/18/2021 11:56:00 P
Non Spike(If applicable):
Inst Blank(If applicable):

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	33.6302	0	50	67	20	130
Dichlorodifluoromethane	1	44.6475	0	50	89	20	130
Chloromethane	1	54.3913	0	50	109	20	130
Bromomethane	1	40.1205	0	50	80	20	130
Vinyl Chloride	1	54.1446	0	50	108	20	130
Chloroethane	1	47.6911	0	50	95	20	130
Trichlorofluoromethane	1	47.7939	0	50	96	20	130
Ethyl ether	1	41.1953	0	50	82	50	130
Furan	1	42.1042	0	50	84	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	50.977	0	50	102	50	130
Methylene Chloride	1	51.0806	0	50	102	50	130
Acrolein	1	196.5052	0	200	98	20	130
Acrylonitrile	1	46.9206	0	50	94	20	130
Iodomethane	1	40.5327	0	50	81	50	130
Acetone	1	198.2597	0	200	99	20	130
Carbon Disulfide	1	47.3335	0	50	95	50	130
t-Butyl Alcohol	1	239.8316	0	200	120	20	130
n-Hexane	1	52.887	0	50	106	50	130
Di-isopropyl-ether	1	50.1243	0	50	100	50	130
1,1-Dichloroethene	1	51.4684	0	50	103	50	130
Methyl Acetate	1	44.0681	0	50	88	50	130
Methyl-t-butyl ether	1	50.3357	0	50	101	50	130
1,1-Dichloroethane	1	53.8927	0	50	108	50	130
trans-1,2-Dichloroethene	1	54.9101	0	50	110	50	130
Ethyl-t-butyl ether	1	48.0552	0	50	96	50	130
cis-1,2-Dichloroethene	1	53.0849	0	50	106	50	130
Bromochloromethane	1	50.9723	0	50	102	50	130
2,2-Dichloropropane	1	56.4192	0	50	113	50	130
Ethyl acetate	1	40.4532	0	50	81	50	130
1,4-Dioxane	1	2394.376	0	2500	96	50	130
1,1-Dichloropropene	1	54.9023	0	50	110	50	130
Chloroform	1	55.6121	0	50	111	50	130
Cyclohexane	1	52.9488	0	50	106	50	130
1,2-Dichloroethane	1	53.2388	0	50	106	50	130
2-Butanone	1	49.3102	0	50	99	20	130
1,1,1-Trichloroethane	1	59.5988	0	50	119	50	130
Carbon Tetrachloride	1	60.2518	0	50	121	50	130
Vinyl Acetate	1	48.2767	0	50	97	50	130
Bromodichloromethane	1	56.5895	0	50	113	50	130
Methylcyclohexane	1	56.0254	0	50	112	50	130
Dibromomethane	1	57.4336	0	50	115	50	130
1,2-Dichloropropane	1	52.6083	0	50	105	50	130
Trichloroethene	1	56.3435	0	50	113	50	130
Benzene	1	54.1728	0	50	108	50	130
tert-Amyl methyl ether	1	52.032	0	50	104	50	130
Iso-propylacetate	1	38.9371	0	50	78	50	130
Methyl methacrylate	1	37.9849	0	50	76	50	130
Dibromochloromethane	1	48.5256	0	50	97	50	130
2-Chloroethylvinylether	1	42.534	0	50	85	50	130
cis-1,3-Dichloropropene	1	45.3324	0	50	91	50	130
trans-1,3-Dichloropropene	1	45.2426	0	50	90	50	130
Ethyl methacrylate	1	39.9877	0	50	80	50	130
1,1,2-Trichloroethane	1	45.8615	0	50	92	50	130
1,2-Dibromoethane	1	45.8336	0	50	92	50	130
1,3-Dichloropropane	1	44.1691	0	50	88	50	130
4-Methyl-2-Pentanone	1	41.5405	0	50	83	20	130
2-Hexanone	1	41.1166	0	50	82	20	130
Tetrachloroethene	1	47.4501	0	50	95	50	130
Toluene	1	44.7318	0	50	89	50	130
1,1,1,2-Tetrachloroethane	1	48.2193	0	50	96	50	130
Chlorobenzene	1	46.1365	0	50	92	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96992

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	41.2862	0	50	83	50	130
n-Amyl acetate	1	39.0404	0	50	78	50	130
Bromoform	**1**	**49.1453**	**0**	**50**	**98**	**20**	**130**
Ethylbenzene	**1**	**46.1985**	**0**	**50**	**92**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**43.817**	**0**	**50**	**88**	**50**	**130**
Styrene	**1**	**45.4594**	**0**	**50**	**91**	**50**	**130**
m&p-Xylenes	**1**	**87.6987**	**0**	**100**	**88**	**50**	**130**
o-Xylene	**1**	**44.7133**	**0**	**50**	**89**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	39.0501	0	50	78	20	130
1,3-Dichlorobenzene	**1**	**41.5636**	**0**	**50**	**83**	**50**	**130**
1,4-Dichlorobenzene	**1**	**40.6599**	**0**	**50**	**81**	**50**	**130**
1,2-Dichlorobenzene	**1**	**41.91**	**0**	**50**	**84**	**50**	**130**
Isopropylbenzene	**1**	**46.0244**	**0**	**50**	**92**	**50**	**130**
Cyclohexanone	1	160.6124	0	250	64	50	130
Camphene	1	46.2961	0	50	93	50	130
1,2,3-Trichloropropane	1	42.558	0	50	85	50	130
2-Chlorotoluene	1	44.0581	0	50	88	50	130
p-Ethyltoluene	1	36.8706	0	50	74	50	130
4-Chlorotoluene	1	43.8744	0	50	88	50	130
n-Propylbenzene	1	44.0594	0	50	88	50	130
Bromobenzene	1	43.5891	0	50	87	50	130
1,3,5-Trimethylbenzene	1	49.2134	0	50	98	50	130
Butyl methacrylate	1	39.4708	0	50	79	50	130
t-Butylbenzene	1	45.1788	0	50	90	50	130
1,2,4-Trimethylbenzene	1	41.0386	0	50	82	50	130
sec-Butylbenzene	1	45.4744	0	50	91	50	130
4-Isopropyltoluene	1	41.2639	0	50	83	50	130
n-Butylbenzene	1	41.705	0	50	83	50	130
p-Diethylbenzene	1	39.1297	0	50	78	50	130
1,2,4,5-Tetramethylbenzene	1	37.8733	0	50	76	50	130
1,2-Dibromo-3-Chloropropane	**1**	**45.2936**	**0**	**50**	**91**	**50**	**130**
Camphor	1	408.6984	0	500	82	50	130
Hexachlorobutadiene	1	45.1507	0	50	90	50	130
1,2,4-Trichlorobenzene	**1**	**39.3179**	**0**	**50**	**79**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**41.0397**	**0**	**50**	**82**	**50**	**130**
Naphthalene	1	43.2284	0	50	86	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96992

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158355.D	AD26668-002(MS:AD26668-001	10/19/2021 12:17:00 A
Non Spike(If applicable):	2M158353.D	AD26668-001	10/18/2021 11:35:00 P
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	24.9845	0	50	50	20	130
Dichlorodifluoromethane	1	45.8146	0	50	92	20	130
Chloromethane	1	48.7357	0	50	97	20	130
Bromomethane	1	38.38	0	50	77	20	130
Vinyl Chloride	1	45.5899	0	50	91	20	130
Chloroethane	1	38.7483	0	50	77	20	130
Trichlorofluoromethane	1	38.9161	0	50	78	20	130
Ethyl ether	1	39.2138	0	50	78	50	130
Furan	1	36.8847	0	50	74	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	41.2584	0	50	83	50	130
Methylene Chloride	1	42.6622	0	50	85	50	130
Acrolein	1	80.2339	0	200	40	20	130
Acrylonitrile	1	36.676	0	50	73	20	130
Iodomethane	1	37.5341	0	50	75	50	130
Acetone	1	175.6318	0	200	88	20	130
Carbon Disulfide	1	40.0849	0	50	80	50	130
t-Butyl Alcohol	1	182.5427	0	200	91	20	130
n-Hexane	1	44.6051	0	50	89	50	130
Di-isopropyl-ether	1	42.6415	0	50	85	50	130
1,1-Dichloroethene	1	41.5407	0	50	83	50	130
Methyl Acetate	1	35.3866	0	50	71	50	130
Methyl-t-butyl ether	1	44.2376	0	50	88	50	130
1,1-Dichloroethane	1	43.4596	0	50	87	50	130
trans-1,2-Dichloroethene	1	44.3306	0	50	89	50	130
Ethyl-t-butyl ether	1	44.0144	0	50	88	50	130
cis-1,2-Dichloroethene	1	43.8798	0	50	88	50	130
Bromochloromethane	1	43.8895	0	50	88	50	130
2,2-Dichloropropane	1	46.9118	0	50	94	50	130
Ethyl acetate	1	33.1453	0	50	66	50	130
1,4-Dioxane	1	2027.744	0	2500	81	50	130
1,1-Dichloropropene	1	43.4334	0	50	87	50	130
Chloroform	1	45.6601	0	50	91	50	130
Cyclohexane	1	41.5979	0	50	83	50	130
1,2-Dichloroethane	1	45.084	0	50	90	50	130
2-Butanone	1	50.1295	0	50	100	20	130
1,1,1-Trichloroethane	1	46.9899	0	50	94	50	130
Carbon Tetrachloride	1	47.8485	0	50	96	50	130
Vinyl Acetate	1	38.0836	0	50	76	50	130
Bromodichloromethane	1	46.7256	0	50	93	50	130
Methylcyclohexane	1	45.4215	0	50	91	50	130
Dibromomethane	1	47.933	0	50	96	50	130
1,2-Dichloropropane	1	44.0125	0	50	88	50	130
Trichloroethene	1	47.3341	0	50	95	50	130
Benzene	1	44.2273	0	50	88	50	130
tert-Amyl methyl ether	1	45.3436	0	50	91	50	130
Iso-propylacetate	1	33.2436	0	50	66	50	130
Methyl methacrylate	1	31.9797	0	50	64	50	130
Dibromochloromethane	1	40.5018	0	50	81	50	130
2-Chloroethylvinylether	1	35.3477	0	50	71	50	130
cis-1,3-Dichloropropene	1	38.7941	0	50	78	50	130
trans-1,3-Dichloropropene	1	39.0561	0	50	78	50	130
Ethyl methacrylate	1	35.5176	0	50	71	50	130
1,1,2-Trichloroethane	1	37.8918	0	50	76	50	130
1,2-Dibromoethane	1	38.5647	0	50	77	50	130
1,3-Dichloropropane	1	37.2817	0	50	75	50	130
4-Methyl-2-Pentanone	1	34.1751	0	50	68	20	130
2-Hexanone	1	32.9789	0	50	66	20	130
Tetrachloroethene	1	39.3684	0	50	79	50	130
Toluene	1	36.7613	0	50	74	50	130
1,1,1,2-Tetrachloroethane	1	40.477	0	50	81	50	130
Chlorobenzene	1	38.7837	0	50	78	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96992

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	36.9838	0	50	74	50	130
n-Amyl acetate	1	35.3576	0	50	71	50	130
Bromoform	1	41.4502	0	50	83	20	130
Ethylbenzene	1	38.8559	0	50	78	50	130
1,1,2,2-Tetrachloroethane	1	35.3689	0	50	71	50	130
Styrene	1	39.1592	0	50	78	50	130
m&p-Xylenes	1	74.4485	0	100	74	50	130
o-Xylene	1	38.1054	0	50	76	50	130
trans-1,4-Dichloro-2-butene	1	33.3111	0	50	67	20	130
1,3-Dichlorobenzene	1	36.9261	0	50	74	50	130
1,4-Dichlorobenzene	1	36.2622	0	50	73	50	130
1,2-Dichlorobenzene	1	36.9896	0	50	74	50	130
Isopropylbenzene	1	38.721	0	50	77	50	130
Cyclohexanone	1	199.6903	0	250	80	50	130
Camphene	1	37.9121	0	50	76	50	130
1,2,3-Trichloropropane	1	36.078	0	50	72	50	130
2-Chlorotoluene	1	37.9799	0	50	76	50	130
p-Ethyltoluene	1	36.9473	0	50	74	50	130
4-Chlorotoluene	1	36.741	0	50	73	50	130
n-Propylbenzene	1	37.6042	0	50	75	50	130
Bromobenzene	1	37.1584	0	50	74	50	130
1,3,5-Trimethylbenzene	1	36.8481	0	50	74	50	130
Butyl methacrylate	1	33.4421	0	50	67	50	130
t-Butylbenzene	1	37.8906	0	50	76	50	130
1,2,4-Trimethylbenzene	1	35.5635	0	50	71	50	130
sec-Butylbenzene	1	38.0951	0	50	76	50	130
4-Isopropyltoluene	1	35.2966	0	50	71	50	130
n-Butylbenzene	1	36.5974	0	50	73	50	130
p-Diethylbenzene	1	36.2064	0	50	72	50	130
1,2,4,5-Tetramethylbenzene	1	37.2879	0	50	75	50	130
1,2-Dibromo-3-Chloropropane	1	37.0299	0	50	74	50	130
Camphor	1	346.8021	0	500	69	50	130
Hexachlorobutadiene	1	38.798	0	50	78	50	130
1,2,4-Trichlorobenzene	1	35.6305	0	50	71	50	130
1,2,3-Trichlorobenzene	1	35.709	0	50	71	50	130
Naphthalene	1	37.022	0	50	74	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96992

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158356.D	AD26668-003(MSD:AD26668-0	10/19/2021 12:38:00 A
Non Spike(If applicable):	2M158353.D	AD26668-001	10/18/2021 11:35:00 P
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.6867	0	50	39	20	130
Dichlorodifluoromethane	1	39.885	0	50	80	20	130
Chloromethane	1	45.045	0	50	90	20	130
Bromomethane	1	36.0427	0	50	72	20	130
Vinyl Chloride	1	40.2342	0	50	80	20	130
Chloroethane	1	35.2591	0	50	71	20	130
Trichlorofluoromethane	1	33.3789	0	50	67	20	130
Ethyl ether	1	38.5607	0	50	77	50	130
Furan	1	34.356	0	50	69	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	35.5338	0	50	71	50	130
Methylene Chloride	1	41.3412	0	50	83	50	130
Acrolein	1	79.9435	0	200	40	20	130
Acrylonitrile	1	36.3355	0	50	73	20	130
Iodomethane	1	38.0272	0	50	76	50	130
Acetone	1	174.4496	0	200	87	20	130
Carbon Disulfide	1	35.847	0	50	72	50	130
t-Butyl Alcohol	1	178.0927	0	200	89	20	130
n-Hexane	1	37.2188	0	50	74	50	130
Di-isopropyl-ether	1	41.2673	0	50	83	50	130
1,1-Dichloroethene	1	36.2422	0	50	72	50	130
Methyl Acetate	1	35.3213	0	50	71	50	130
Methyl-t-butyl ether	1	43.8994	0	50	88	50	130
1,1-Dichloroethane	1	40.1522	0	50	80	50	130
trans-1,2-Dichloroethene	1	40.7698	0	50	82	50	130
Ethyl-t-butyl ether	1	43.1407	0	50	86	50	130
cis-1,2-Dichloroethene	1	40.9535	0	50	82	50	130
Bromochloromethane	1	42.6596	0	50	85	50	130
2,2-Dichloropropane	1	41.9192	0	50	84	50	130
Ethyl acetate	1	33.1993	0	50	66	50	130
1,4-Dioxane	1	1843.653	0	2500	74	50	130
1,1-Dichloropropene	1	38.6518	0	50	77	50	130
Chloroform	1	42.6731	0	50	85	50	130
Cyclohexane	1	35.7363	0	50	71	50	130
1,2-Dichloroethane	1	43.9543	0	50	88	50	130
2-Butanone	1	49.0907	0	50	98	20	130
1,1,1-Trichloroethane	1	41.6211	0	50	83	50	130
Carbon Tetrachloride	1	41.6669	0	50	83	50	130
Vinyl Acetate	1	37.1794	0	50	74	50	130
Bromodichloromethane	1	45.4201	0	50	91	50	130
Methylcyclohexane	1	38.1584	0	50	76	50	130
Dibromomethane	1	47.0213	0	50	94	50	130
1,2-Dichloropropane	1	41.5338	0	50	83	50	130
Trichloroethene	1	43.1321	0	50	86	50	130
Benzene	1	41.1496	0	50	82	50	130
tert-Amyl methyl ether	1	44.5611	0	50	89	50	130
Iso-propylacetate	1	32.5606	0	50	65	50	130
Methyl methacrylate	1	31.3674	0	50	63	50	130
Dibromochloromethane	1	39.6787	0	50	79	50	130
2-Chloroethylvinylether	1	34.7526	0	50	70	50	130
cis-1,3-Dichloropropene	1	36.9783	0	50	74	50	130
trans-1,3-Dichloropropene	1	38.2598	0	50	77	50	130
Ethyl methacrylate	1	33.8964	0	50	68	50	130
1,1,2-Trichloroethane	1	37.4872	0	50	75	50	130
1,2-Dibromoethane	1	37.2875	0	50	75	50	130
1,3-Dichloropropane	1	36.5665	0	50	73	50	130
4-Methyl-2-Pentanone	1	33.3589	0	50	67	20	130
2-Hexanone	1	32.5198	0	50	65	20	130
Tetrachloroethene	1	33.5558	0	50	67	50	130
Toluene	1	33.2495	0	50	66	50	130
1,1,1,2-Tetrachloroethane	1	38.0945	0	50	76	50	130
Chlorobenzene	1	35.8006	0	50	72	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS96992

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	35.8128	0	50	72	50	130
n-Amyl acetate	1	34.4645	0	50	69	50	130
Bromoform	1	39.9503	0	50	80	20	130
Ethylbenzene	1	35.0767	0	50	70	50	130
1,1,2,2-Tetrachloroethane	1	34.2379	0	50	68	50	130
Styrene	1	36.3255	0	50	73	50	130
m&p-Xylenes	1	66.2638	0	100	66	50	130
o-Xylene	1	34.4296	0	50	69	50	130
trans-1,4-Dichloro-2-butene	1	30.7053	0	50	61	20	130
1,3-Dichlorobenzene	1	33.464	0	50	67	50	130
1,4-Dichlorobenzene	1	33.5859	0	50	67	50	130
1,2-Dichlorobenzene	1	34.355	0	50	69	50	130
Isopropylbenzene	1	33.472	0	50	67	50	130
Cyclohexanone	1	193.4532	0	250	77	50	130
Camphene	1	31.1269	0	50	62	50	130
1,2,3-Trichloropropane	1	35.0827	0	50	70	50	130
2-Chlorotoluene	1	33.5211	0	50	67	50	130
p-Ethyltoluene	1	32.4548	0	50	65	50	130
4-Chlorotoluene	1	33.8245	0	50	68	50	130
n-Propylbenzene	1	32.401	0	50	65	50	130
Bromobenzene	1	34.1067	0	50	68	50	130
1,3,5-Trimethylbenzene	1	31.6631	0	50	63	50	130
Butyl methacrylate	1	33.7856	0	50	68	50	130
t-Butylbenzene	1	32.5805	0	50	65	50	130
1,2,4-Trimethylbenzene	1	31.959	0	50	64	50	130
sec-Butylbenzene	1	32.0813	0	50	64	50	130
4-Isopropyltoluene	1	30.2524	0	50	61	50	130
n-Butylbenzene	1	30.9363	0	50	62	50	130
p-Diethylbenzene	1	30.4785	0	50	61	50	130
1,2,4,5-Tetramethylbenzene	1	33.673	0	50	67	50	130
1,2-Dibromo-3-Chloropropane	1	35.1553	0	50	70	50	130
Camphor	1	332.3999	0	500	66	50	130
Hexachlorobutadiene	1	32.0073	0	50	64	50	130
1,2,4-Trichlorobenzene	1	32.6621	0	50	65	50	130
1,2,3-Trichlorobenzene	1	33.3091	0	50	67	50	130
Naphthalene	1	35.1801	0	50	70	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS96992

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158356.D	AD26668-003(MSD:AD26668-0	10/19/2021 12:38:00 A
Duplicate(If applicable):	2M158355.D	AD26668-002(MS:AD26668-001	10/19/2021 12:17:00 A
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	19.6867	24.9845	24	30
Dichlorodifluoromethane	1	39.885	45.8146	14	30
Chloromethane	1	45.045	48.7357	7.9	30
Bromomethane	1	36.0427	38.38	6.3	30
Vinyl Chloride	1	40.2342	45.5899	12	40
Chloroethane	1	35.2591	38.7483	9.4	30
Trichlorofluoromethane	1	33.3789	38.9161	15	30
Ethyl ether	1	38.5607	39.2138	1.7	30
Furan	1	34.356	36.8847	7.1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	35.5338	41.2584	15	30
Methylene Chloride	1	41.3412	42.6622	3.1	30
Acrolein	1	79.9435	80.2339	0.36	30
Acrylonitrile	1	36.3355	36.676	0.93	30
Iodomethane	1	38.0272	37.5341	1.3	30
Acetone	1	174.4496	175.6318	0.68	30
Carbon Disulfide	1	35.847	40.0849	11	30
t-Butyl Alcohol	1	178.0927	182.5427	2.5	30
n-Hexane	1	37.2188	44.6051	18	30
Di-isopropyl-ether	1	41.2673	42.6415	3.3	30
1,1-Dichloroethene	1	36.2422	41.5407	14	40
Methyl Acetate	1	35.3213	35.3866	0.18	30
Methyl-t-butyl ether	1	43.8994	44.2376	0.77	30
1,1-Dichloroethane	1	40.1522	43.4596	7.9	40
trans-1,2-Dichloroethene	1	40.7698	44.3306	8.4	30
Ethyl-t-butyl ether	1	43.1407	44.0144	2	30
cis-1,2-Dichloroethene	1	40.9535	43.8798	6.9	30
Bromochloromethane	1	42.6596	43.8895	2.8	30
2,2-Dichloropropane	1	41.9192	46.9118	11	30
Ethyl acetate	1	33.1993	33.1453	0.16	30
1,4-Dioxane	1	1843.653	2027.744	9.5	30
1,1-Dichloropropene	1	38.6518	43.4334	12	30
Chloroform	1	42.6731	45.6601	6.8	40
Cyclohexane	1	35.7363	41.5979	15	30
1,2-Dichloroethane	1	43.9543	45.084	2.5	40
2-Butanone	1	49.0907	50.1295	2.1	40
1,1,1-Trichloroethane	1	41.6211	46.9899	12	30
Carbon Tetrachloride	1	41.6669	47.8485	14	40
Vinyl Acetate	1	37.1794	38.0836	2.4	30
Bromodichloromethane	1	45.4201	46.7256	2.8	30
Methylcyclohexane	1	38.1584	45.4215	17	30
Dibromomethane	1	47.0213	47.933	1.9	30
1,2-Dichloropropane	1	41.5338	44.0125	5.8	30
Trichloroethene	1	43.1321	47.3341	9.3	40
Benzene	1	41.1496	44.2273	7.2	40
tert-Amyl methyl ether	1	44.5611	45.3436	1.7	30
Iso-propylacetate	1	32.5606	33.2436	2.1	30
Methyl methacrylate	1	31.3674	31.9797	1.9	30
Dibromochloromethane	1	39.6787	40.5018	2.1	30
2-Chloroethylvinylether	1	34.7526	35.3477	1.7	30
cis-1,3-Dichloropropene	1	36.9783	38.7941	4.8	30
trans-1,3-Dichloropropene	1	38.2598	39.0561	2.1	30
Ethyl methacrylate	1	33.8964	35.5176	4.7	30
1,1,2-Trichloroethane	1	37.4872	37.8918	1.1	30
1,2-Dibromoethane	1	37.2875	38.5647	3.4	30
1,3-Dichloropropane	1	36.5665	37.2817	1.9	30
4-Methyl-2-Pentanone	1	33.3589	34.1751	2.4	30
2-Hexanone	1	32.5198	32.9789	1.4	30
Tetrachloroethene	1	33.5558	39.3684	16	40
Toluene	1	33.2495	36.7613	10	40
1,1,1,2-Tetrachloroethane	1	38.0945	40.477	6.1	30
Chlorobenzene	1	35.8006	38.7837	8	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS96992

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	35.8128	36.9838	3.2	30
n-Amyl acetate	1	34.4645	35.3576	2.6	30
Bromoform	1	39.9503	41.4502	3.7	30
Ethylbenzene	1	35.0767	38.8559	10	30
1,1,2,2-Tetrachloroethane	1	34.2379	35.3689	3.2	30
Styrene	1	36.3255	39.1592	7.5	30
m&p-Xylenes	1	66.2638	74.4485	12	30
o-Xylene	1	34.4296	38.1054	10	30
trans-1,4-Dichloro-2-butene	1	30.7053	33.3111	8.1	30
1,3-Dichlorobenzene	1	33.464	36.9261	9.8	30
1,4-Dichlorobenzene	1	33.5859	36.2522	7.6	40
1,2-Dichlorobenzene	1	34.355	36.9896	7.4	40
Isopropylbenzene	1	33.472	38.721	15	30
Cyclohexanone	1	193.4532	199.6903	3.2	30
Camphene	1	31.1269	37.9121	20	30
1,2,3-Trichloropropane	1	35.0827	36.078	2.8	30
2-Chlorotoluene	1	33.5211	37.9799	12	30
p-Ethyltoluene	1	32.4548	36.9473	13	30
4-Chlorotoluene	1	33.8245	36.741	8.3	30
n-Propylbenzene	1	32.401	37.6042	15	40
Bromobenzene	1	34.1067	37.1584	8.6	30
1,3,5-Trimethylbenzene	1	31.6631	36.8481	15	30
Butyl methacrylate	1	33.7856	33.4421	1	30
t-Butylbenzene	1	32.5805	37.8906	15	30
1,2,4-Trimethylbenzene	1	31.959	35.5635	11	30
sec-Butylbenzene	1	32.0813	38.0951	17	40
4-Isopropyltoluene	1	30.2524	35.2966	15	30
n-Butylbenzene	1	30.9363	36.5974	17	30
p-Diethylbenzene	1	30.4785	36.2064	17	30
1,2,4,5-Tetramethylbenzene	1	33.673	37.2879	10	30
1,2-Dibromo-3-Chloropropane	1	35.1553	37.0299	5.2	30
Camphor	1	332.3999	346.8021	4.2	30
Hexachlorobutadiene	1	32.0073	38.798	19	30
1,2,4-Trichlorobenzene	1	32.6621	35.6305	8.7	30
1,2,3-Trichlorobenzene	1	33.3091	35.709	7	30
Naphthalene	1	35.1801	37.022	5.1	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M158352.D
Matrix: Soil

Blank Analysis Date: 10/18/21 23:14
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD26715-001	2M158376.D	10/19/21 07:40
AD26715-002	2M158377.D	10/19/21 08:01
AD26668-003(MSD	2M158356.D	10/19/21 00:38
AD26668-002(MS:	2M158355.D	10/19/21 00:17
MBS96992	2M158354.D	10/18/21 23:56
AD26668-001	2M158353.D	10/18/21 23:35

Form 5

Tune Name: BFB TUNE **Data File:** 2M157867.D
Instrument: GCMS 2 **Analysis Date:** 10/07/21 09:49
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.342 to 7.355 min

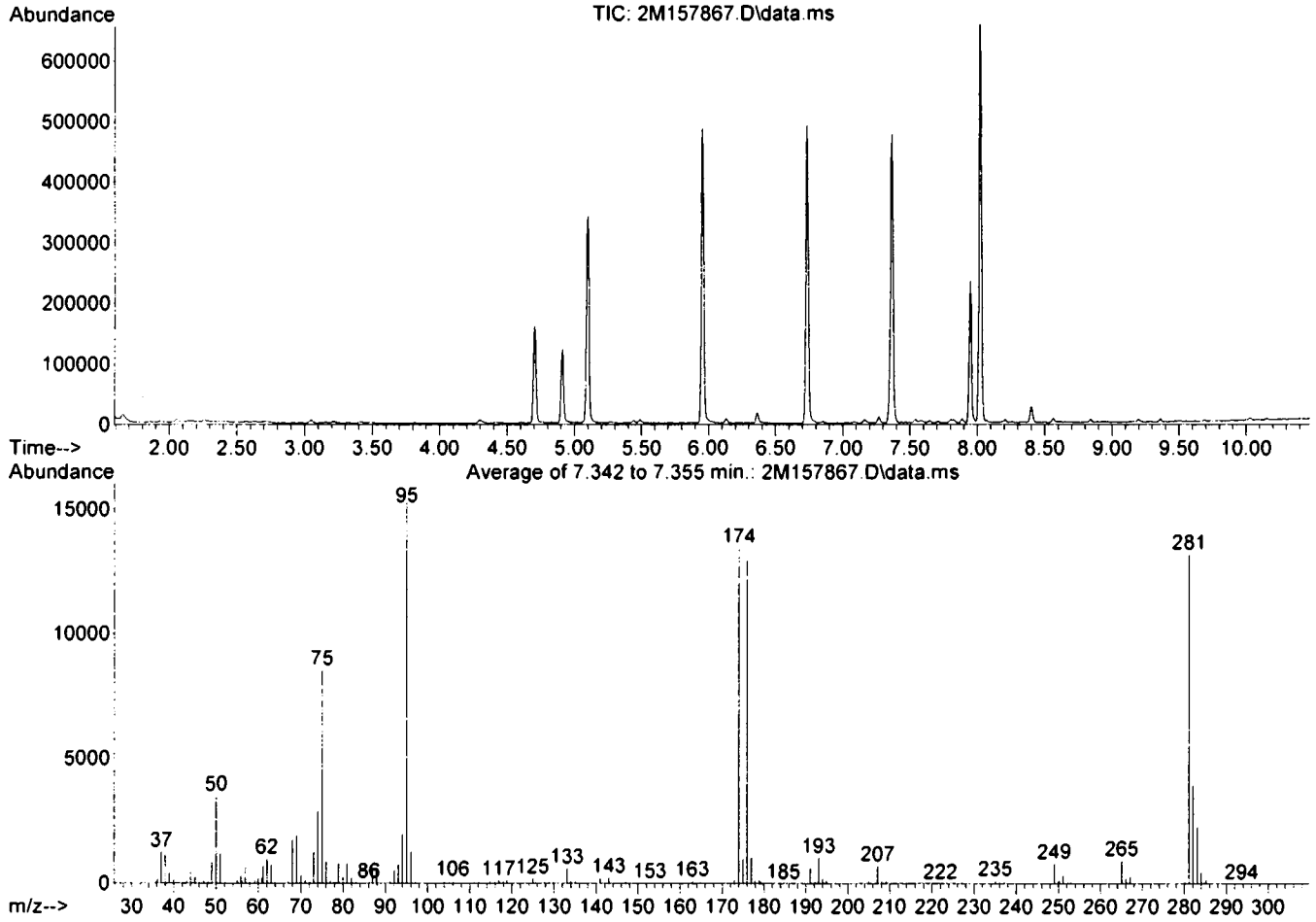
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.0	3515	PASS
75	95	30	60	55.9	8541	PASS
95	95	100	100	100.0	15274	PASS
96	95	5	9	8.5	1299	PASS
173	174	0.00	2	1.1	147	PASS
174	95	50	100	88.2	13478	PASS
175	174	5	9	7.6	1020	PASS
176	174	95	101	96.7	13034	PASS
177	176	5	9	8.8	1142	PASS

Data File	Sample Number	Analysis Date:
2M157868.D	BLK	10/07/21 10:10
2M157871.D	CAL @ 0.5PPB	10/07/21 11:03
2M157872.D	CAL @ 1PPB	10/07/21 11:24
2M157873.D	CAL @ 5PPB	10/07/21 11:45
2M157874.D	CAL @ 2PPB	10/07/21 12:06
2M157875.D	CAL @ 20PPB	10/07/21 12:27
2M157876.D	CAL @ 50PPB	10/07/21 12:48
2M157877.D	CAL @ 100PPB	10/07/21 13:09
2M157878.D	BLK	10/07/21 13:30
2M157879.D	CAL @ 250PPB	10/07/21 13:51
2M157880.D	BLK	10/07/21 14:13
2M157881.D	CAL @ 500PPB	10/07/21 14:34
2M157883.D	BLK	10/07/21 15:16
2M157884.D	BLK	10/07/21 15:37
2M157885.D	BLK	10/07/21 15:58
2M157886.D	STD	10/07/21 16:19

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-07-21\
Data File : 2M157867.D
Acq On : 07 Oct 2021 09:49
Operator : JM
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_S0617.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Jun 18 13:15:35 2021



Spectrum Information: Average of 7.342 to 7.355 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	3515	PASS
75	95	30	60	55.9	8541	PASS
95	95	100	100	100.0	15274	PASS
96	95	5	9	8.5	1299	PASS
173	174	0.00	2	1.1	147	PASS
174	95	50	100	88.2	13478	PASS
175	174	5	9	7.6	1020	PASS
176	174	95	101	96.7	13034	PASS
177	176	5	9	8.8	1142	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 2M158345.D
Instrument: GCMS 2 **Analysis Date:** 10/18/21 20:45
Method: EPA 8260D
Tune Scan/Time Range: Average of 7.342 to 7.354 min

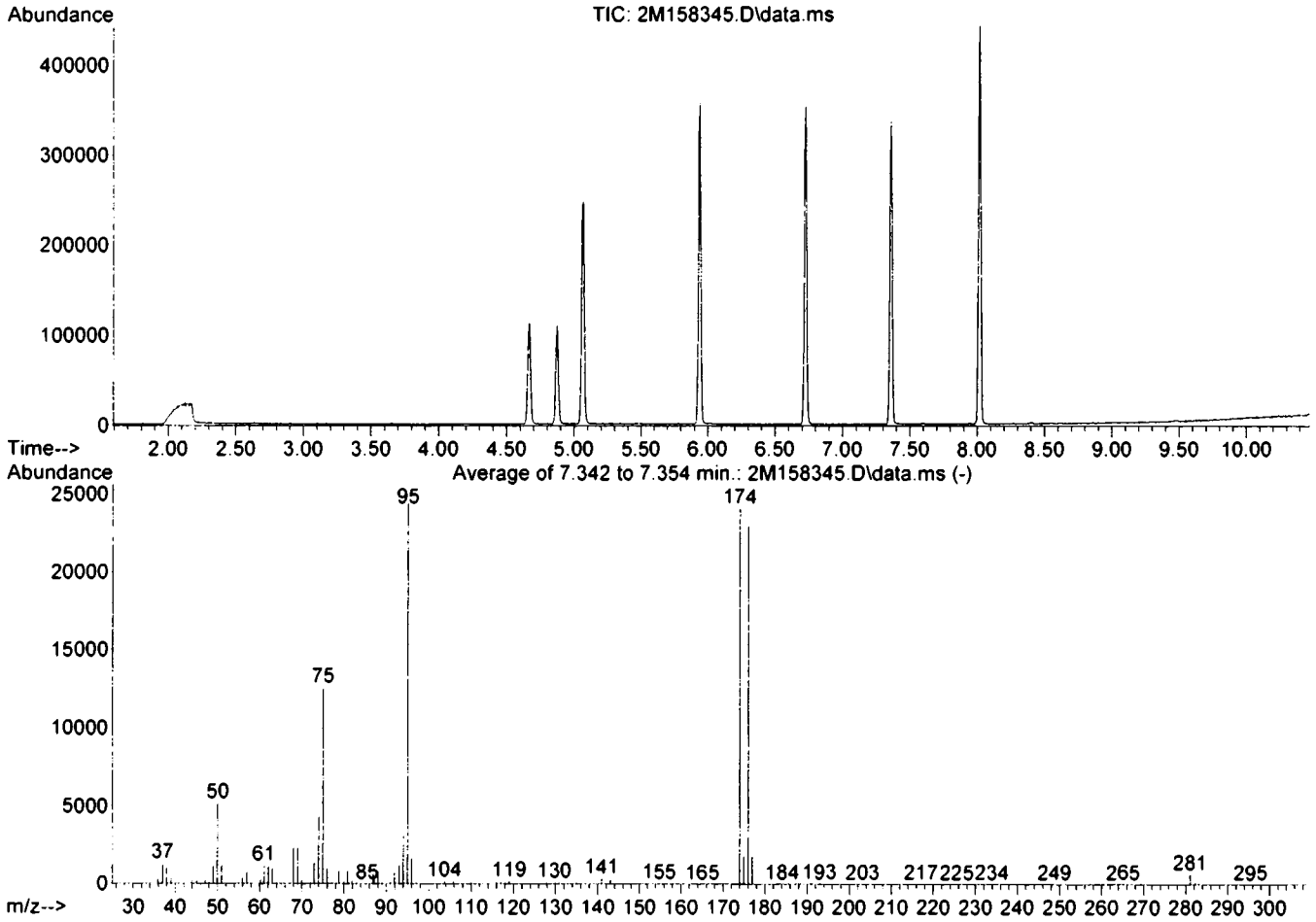
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.3	5198	PASS
75	95	30	60	51.6	12593	PASS
95	95	100	100	100.0	24404	PASS
96	95	5	9	6.9	1695	PASS
173	174	0.00	2	0.1	17	PASS
174	95	50	100	98.8	24105	PASS
175	174	5	9	7.6	1827	PASS
176	174	95	101	95.6	23040	PASS
177	176	5	9	7.9	1809	PASS

Data File	Sample Number	Analysis Date:
2M158347.D	CAL @ 50 PPB	10/18/21 21:29
2M158348.D	50 PPB	10/18/21 21:50
2M158349.D	BLK	10/18/21 22:11
2M158350.D	BLK	10/18/21 22:32
2M158351.D	BLK	10/18/21 22:53
2M158352.D	DAILY BLANK	10/18/21 23:14
2M158353.D	AD26668-001	10/18/21 23:35
2M158354.D	MBS96992	10/18/21 23:56
2M158355.D	AD26668-002(MS	10/19/21 00:17
2M158356.D	AD26668-003(MSD	10/19/21 00:38
2M158357.D	BLK	10/19/21 00:59
2M158358.D	BLK	10/19/21 01:20
2M158359.D	AD26668-004	10/19/21 01:42
2M158360.D	AD26668-005	10/19/21 02:03
2M158361.D	AD26668-006	10/19/21 02:24
2M158362.D	AD26668-007	10/19/21 02:45
2M158363.D	AD26716-038	10/19/21 03:06
2M158364.D	AD26716-048	10/19/21 03:27
2M158365.D	AD26716-058	10/19/21 03:48
2M158366.D	AD26716-068	10/19/21 04:09
2M158367.D	AD26716-078	10/19/21 04:30
2M158368.D	AD26716-088	10/19/21 04:51
2M158369.D	AD26716-098	10/19/21 05:12
2M158370.D	AD26708-002	10/19/21 05:33
2M158371.D	AD26708-004	10/19/21 05:55
2M158372.D	AD26708-006	10/19/21 06:16
2M158373.D	AD26708-008	10/19/21 06:37
2M158374.D	AD26708-010	10/19/21 06:58
2M158375.D	AD26708-012	10/19/21 07:19
2M158376.D	AD26715-001	10/19/21 07:40
2M158377.D	AD26715-002	10/19/21 08:01

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-1821\
Data File : 2M158345.D
Acq On : 18 Oct 2021 20:45
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_S1007.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Oct 07 15:40:24 2021



Spectrum Information: Average of 7.342 to 7.354 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	5198	PASS
75	95	30	60	51.6	12593	PASS
95	95	100	100	100.0	24404	PASS
96	95	5	9	6.9	1695	PASS
173	174	0.00	2	0.1	17	PASS
174	95	50	100	98.8	24105	PASS
175	174	5	9	7.6	1827	PASS
176	174	95	101	95.6	23040	PASS
177	176	5	9	7.9	1809	PASS

1101601 0040

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	2M157875.D	CAL @ 20PPB	10/07/21 12:27	2	2M157873.D	CAL @ 5PPB	10/07/21 11:45
3	2M157874.D	CAL @ 2PPB	10/07/21 12:06	4	2M157876.D	CAL @ 50PPB	10/07/21 12:48
5	2M157877.D	CAL @ 100PPB	10/07/21 13:09	6	2M157879.D	CAL @ 250PPB	10/07/21 13:51
7	2M157881.D	CAL @ 500PPB	10/07/21 14:34	8	2M157872.D	CAL @ 1PPB	10/07/21 11:24
9	2M157871.D	CAL @ 0.5PPB	10/07/21 11:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.3669	0.4357	0.4210	0.4149	0.3758	0.4244	0.4790	-----	-----	0.417	1.70	0.996	1.00	9.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.2450	0.2910	0.2793	0.2760	0.2433	0.2798	0.3036	-----	-----	0.274	1.68	0.998	1.00	8.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1828	0.2484	0.2742	0.2193	0.1970	0.2204	0.2575	-----	-----	0.229	1.86	0.994	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1352	0.1922	0.2133	0.1414	0.1326	0.1616	0.1579	-----	-----	0.162	2.26	0.999	0.999	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.2475	0.2977	0.3036	0.2845	0.2527	0.2897	0.3115	-----	-----	0.284	1.95	0.998	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.1960	0.2102	0.2293	0.1938	0.1717	0.2108	0.2094	-----	-----	0.203	2.34	0.999	0.999	8.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.6107	0.6546	0.6840	0.5927	0.5561	0.6524	0.6847	-----	-----	0.634	2.56	0.998	1.00	7.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.2269	0.2741	0.2262	0.2116	0.2223	0.2475	0.2379	-----	-----	0.235	2.80	0.999	0.999	8.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.5799	0.6586	0.5175	0.4945	0.5594	0.6348	0.5737	-----	-----	0.574	2.84	0.997	0.998	10	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.3261	0.2999	0.3094	0.2851	0.3123	0.3524	0.3315	-----	-----	0.317	3.00	0.999	0.999	7.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.3076	0.3306	0.3723	0.2847	0.2996	0.3312	0.2963	-----	-----	0.317	3.42	0.997	0.999	9.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0482	0.0451	0.0431	0.0428	0.0463	0.0511	0.0454	-----	-----	0.0461	2.92	0.996	0.999	6.3		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.1297	0.1225	0.1184	0.1202	0.1266	0.1290	0.1239	-----	-----	0.124	3.62	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.1996	0.2045	0.2886	0.2364	0.2989	0.3516	0.3347	-----	-----	0.274	3.15	0.998	0.998	22		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.1199	0.1398	0.1752	0.0954	0.1023	0.1081	0.0929	-----	-----	0.119	3.04	0.994	0.999	25	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.8155	0.8282	0.9536	0.7653	0.8445	0.9574	0.8800	-----	-----	0.864	3.22	0.998	0.999	8.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0495	0.0471	0.0516	0.0430	0.0460	0.0503	0.0474	-----	-----	0.0479	3.48	0.999	0.999	6.1		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.4006	0.3552	0.3578	0.3726	0.4052	0.3866	0.4247	-----	-----	0.386	3.87	0.998	1.00	6.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.9516	0.8646	0.8469	0.9036	0.9659	0.8930	0.9610	-----	-----	0.912	4.03	0.999	1.00	5.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.5132	0.4720	0.4365	0.4411	0.4940	0.5549	0.5068	-----	-----	0.488	3.01	0.998	0.999	8.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.3247	0.3265	0.3392	0.2836	0.2988	0.3229	0.2812	-----	-----	0.311	3.32	0.995	0.999	7.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.7694	0.7204	0.7095	0.7418	0.7886	0.7897	0.7890	0.7971	-----	0.763	3.64	1.00	1.00	4.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.5278	0.5172	0.5165	0.4939	0.5252	0.4916	0.5363	-----	-----	0.516	4.00	0.998	1.00	3.3	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.3382	0.3296	0.3015	0.3109	0.3330	0.3405	0.3498	-----	-----	0.329	3.65	1.00	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.8292	0.7642	0.7757	0.8034	0.8560	0.8006	0.8671	-----	-----	0.814	4.29	0.999	1.00	4.8	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.5354	0.5147	0.5028	0.5078	0.5403	0.5130	0.5603	-----	-----	0.525	4.41	0.998	1.00	4.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.2591	0.2554	0.2644	0.2349	0.2468	0.2197	0.2297	-----	-----	0.244	4.57	0.999	0.999	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.4793	0.4414	0.4241	0.4525	0.5060	0.4958	0.5525	-----	-----	0.479	4.42	0.998	1.00	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.3833	0.3884	0.4574	0.3751	0.3909	0.3523	0.3785	-----	-----	0.389	4.43	0.999	0.999	8.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0054	0.0052	0.0055	0.0050	0.0049	0.0047	0.0053	-----	-----	0.00519	5.49	0.997	1.00	5.8		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.4389	0.4416	0.4200	0.4102	0.4406	0.4194	0.4669	-----	-----	0.434	4.82	0.998	1.00	4.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.5858	0.5694	0.5910	0.5547	0.5772	0.5377	0.5837	-----	-----	0.571	4.61	0.999	1.00	3.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.3108	0.3026	0.3055	0.3024	0.3087	0.3073	0.3044	0.3011	0.2973	0.305	4.70	-1	-1	1.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.4925	0.4605	0.4525	0.4487	0.4878	0.4637	0.5114	-----	-----	0.474	4.77	0.998	1.00	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1489	0.1405	0.1400	0.1328	0.1416	0.1375	0.1338	0.1398	0.1382	0.139	4.91	-1	-1	3.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4487	0.4150	0.4044	0.4238	0.4343	0.4093	0.4409	-----	-----	0.425	4.95	0.999	1.00	3.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Qua	0.2066	0.2128	0.2364	0.1505	0.1557	0.1464	0.1530	-----	-----	0.180	4.41	0.999	1.00	21	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.5791	0.5469	0.5083	0.5377	0.5841	0.5589	0.6187	-----	-----	0.562	4.73	0.998	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.5589	0.5069	0.4693	0.5229	0.5683	0.5486	0.6163	-----	-----	0.542	4.83	0.997	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.9770	0.9122	0.9198	0.9328	0.9886	0.9169	0.9838	-----	-----	0.947	4.02	0.999	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.4153	0.3804	0.3846	0.4208	0.4315	0.4235	0.4655	-----	-----	0.417	5.57	0.998	1.00	6.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.65

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101601 0041

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M157875.D	CAL @ 20PPB	10/07/21 12:27	2	2M157873.D	CAL @ 5PPB	10/07/21 11:45
3	2M157874.D	CAL @ 2PPB	10/07/21 12:06	4	2M157876.D	CAL @ 50PPB	10/07/21 12:48
5	2M157877.D	CAL @ 100PPB	10/07/21 13:09	6	2M157879.D	CAL @ 250PPB	10/07/21 13:51
7	2M157881.D	CAL @ 500PPB	10/07/21 14:34	8	2M157872.D	CAL @ 1PPB	10/07/21 11:24
9	2M157871.D	CAL @ 0.5PPB	10/07/21 11:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.5340	0.4982	0.4777	0.5139	0.5398	0.5301	0.5959	-----	-----	0.527	5.42	0.997	1.00	7.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.3105	0.3047	0.3106	0.3184	0.3102	0.3112	0.3351	-----	-----	0.314	5.50	0.999	1.00	3.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.2879	0.3013	0.2767	0.2828	0.2873	0.2744	0.2996	-----	-----	0.287	5.43	0.998	1.00	3.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.4121	0.4320	0.4086	0.4080	0.4165	0.4049	0.4558	-----	-----	0.420	5.30	0.997	1.00	4.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.1308	1.1584	1.1142	1.1136	1.1461	1.0928	1.1835	1.1848	-----	1.14	4.95	0.999	1.00	3.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.7392	0.7033	0.6578	0.7644	0.7845	0.7433	0.7903	-----	-----	0.740	4.99	0.999	1.00	6.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.7373	0.5733	0.5729	0.6143	0.7280	0.5802	0.6080	-----	-----	0.631	4.95	0.998	0.998	11	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.3555	0.2774	0.2872	0.2868	0.3392	0.2674	0.2851	-----	-----	0.300	5.45	0.997	0.997	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.4002	0.3360	0.3390	0.3756	0.3877	0.3788	0.4047	-----	-----	0.375	6.42	0.999	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Avg	0.1678	0.1386	0.1262	0.1513	0.1705	0.1459	0.1531	-----	-----	0.151	5.71	0.999	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.4846	0.3864	0.3823	0.4313	0.4609	0.4131	0.4401	-----	-----	0.428	5.80	0.999	0.999	8.8	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.4365	0.3619	0.3509	0.4052	0.4131	0.3977	0.4236	-----	-----	0.398	6.09	0.999	1.00	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.3460	0.2639	0.2711	0.2964	0.3026	0.2864	0.2981	-----	-----	0.295	6.10	1.00	1.00	9.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.2928	0.2656	0.2745	0.2628	0.2612	0.2478	0.2625	-----	-----	0.267	6.20	0.999	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.3213	0.2922	0.2924	0.2922	0.2924	0.2738	0.2897	0.3257	0.3054	0.298	6.49	0.999	1.00	5.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.4804	0.4361	0.4155	0.4228	0.4204	0.3965	0.4269	-----	-----	0.428	6.29	0.999	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.3913	0.3034	0.3015	0.3181	0.3201	0.2960	0.3103	-----	-----	0.320	5.87	0.999	1.00	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.2826	0.2385	0.2469	0.2378	0.2411	0.2224	0.2364	-----	-----	0.244	6.30	0.999	1.00	7.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.4465	0.3837	0.3785	0.3759	0.3901	0.3796	0.4191	-----	-----	0.396	6.29	0.998	1.00	6.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1753	1.0352	1.0324	1.0324	1.0270	1.0294	1.0119	1.0231	1.0128	1.04	5.95	-1	-1	4.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.8693	0.7703	0.7574	0.7435	0.7710	0.7278	0.7854	0.8614	-----	0.786	5.99	0.999	1.00	6.6	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3367	0.3252	0.3439	0.3573	0.3649	0.3572	0.3915	-----	-----	0.354	6.78	0.998	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.9035	0.9256	0.9530	0.8925	0.9147	0.8673	0.9277	-----	-----	0.912	6.74	0.999	1.00	3.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.6890	0.6142	0.6734	0.7061	0.7286	0.6886	0.6953	-----	-----	0.685	6.99	1.00	1.00	5.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.7051	0.6567	0.7142	0.7000	0.7238	0.6712	0.6620	-----	-----	0.690	7.10	1.00	1.00	3.9	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4140	0.3856	0.3667	0.4358	0.4573	0.4474	0.4643	-----	-----	0.424	7.20	1.00	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.5606	0.5173	0.5585	0.5117	0.5280	0.4996	0.5778	0.5350	-----	0.536	6.79	0.996	0.999	5.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.5033	0.5065	0.4848	0.4791	0.4612	0.4316	0.4420	-----	-----	0.473	7.42	1.00	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.8532	0.8403	0.8677	0.8377	0.8277	0.8386	0.7776	0.8588	0.8528	0.839	7.36	-1	-1	3.1		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.3228	1.2713	1.2259	1.2950	1.3233	1.2576	1.3157	-----	-----	1.29	7.07	1.00	1.00	2.9	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.8433	0.8336	0.8007	0.7817	0.7937	0.7439	0.7785	0.8993	1.0343	0.834	6.85	1.00	1.00	10	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8017	0.7761	0.8320	0.7633	0.7874	0.7473	0.7969	0.8166	-----	0.790	7.07	0.999	1.00	3.5	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2626	0.2483	0.2675	0.2542	0.2589	0.2436	0.2550	-----	-----	0.256	7.44	0.999	1.00	3.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.2036	1.1925	1.2498	1.1903	1.1977	1.1044	1.2050	-----	-----	1.19	7.98	0.998	0.999	3.7	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.2300	1.2396	1.3450	1.1871	1.1834	1.0915	1.1911	-----	-----	1.21	8.03	0.998	0.999	6.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.1160	1.0899	1.1857	1.1058	1.1064	1.0229	1.1623	-----	-----	1.11	8.26	0.997	0.999	4.7	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.1690	2.1042	2.0814	2.0752	2.1387	2.0038	2.0098	2.2701	-----	2.11	7.26	1.00	1.00	4.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0254	0.0257	0.0298	0.0226	0.0221	0.0205	0.0215	-----	-----	0.0240	7.34	0.999	1.00	13		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.7595	0.6842	0.6986	0.7436	0.7784	0.7510	0.7990	-----	-----	0.745	7.43	0.999	1.00	5.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.6313	0.6006	0.6442	0.6282	0.6213	0.5802	0.6004	-----	-----	0.615	7.46	1.00	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.2557	1.1739	1.2170	1.2161	1.2263	1.1483	1.1423	-----	-----	1.20	7.56	1.00	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.65

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101601 0042

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M157875.D	CAL @ 20PPB	10/07/21 12:27	2	2M157873.D	CAL @ 5PPB	10/07/21 11:45
3	2M157874.D	CAL @ 2PPB	10/07/21 12:06	4	2M157876.D	CAL @ 50PPB	10/07/21 12:48
5	2M157877.D	CAL @ 100PPB	10/07/21 13:09	6	2M157879.D	CAL @ 250PPB	10/07/21 13:51
7	2M157881.D	CAL @ 500PPB	10/07/21 14:34	8	2M157872.D	CAL @ 1PPB	10/07/21 11:24
9	2M157871.D	CAL @ 0.5PPB	10/07/21 11:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.4479	2.3521	2.4086	2.3844	2.4101	2.2046	2.1692	-----	-----	2.34	7.55	1.00	1.00	4.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.1473	1.1215	1.1648	1.1397	1.1357	1.0886	1.1754	-----	-----	1.14	7.62	0.999	1.00	2.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	2.4362	2.3756	2.4244	2.3376	2.3864	2.1891	2.1767	2.6081	-----	2.37	7.49	1.00	1.00	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.1874	1.1531	1.1633	1.1443	1.1570	1.0756	1.1123	-----	-----	1.14	7.46	1.00	1.00	3.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	1.6142	1.5393	1.5421	1.5368	1.5580	1.4895	1.6620	1.8017	-----	1.59	7.57	0.998	1.00	6.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.6242	0.5231	0.5235	0.6321	0.6311	0.5879	0.6061	0.6434	-----	0.596	7.58	1.00	1.00	8.1	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.8669	1.7951	1.8738	1.8424	1.9094	1.8073	1.9616	1.9515	-----	1.88	7.77	0.999	1.00	3.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.8128	1.7797	1.9665	1.7577	1.7969	1.6682	1.7675	2.2201	-----	1.85	7.79	0.999	1.00	9.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.2964	2.1715	2.1865	2.2420	2.3359	2.1856	2.3669	2.2292	-----	2.25	7.89	0.999	1.00	3.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	2.0532	2.0613	2.3427	2.0037	2.0589	1.9270	2.0964	2.6857	-----	2.15	7.96	0.999	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	2.0660	1.9561	2.0189	2.0457	2.1139	1.9598	2.1089	2.0358	-----	2.04	8.20	0.999	1.00	2.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.2323	1.1527	1.2791	1.2204	1.2754	1.2128	1.3572	-----	-----	1.25	8.18	0.997	1.00	5.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	1.4445	1.3592	1.4781	1.4843	1.5492	1.4808	1.6247	-----	-----	1.49	8.65	0.998	1.00	5.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.1656	0.1555	0.1585	0.1676	0.1784	0.1743	0.1884	-----	-----	0.170	8.71	0.999	1.00	6.8	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0683	0.0598	0.0666	0.0693	0.0726	0.0675	0.0709	-----	-----	0.0679	9.14	0.999	1.00	6.0		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.6438	0.5844	0.6890	0.6516	0.6862	0.6723	0.6894	-----	-----	0.660	9.28	1.00	1.00	5.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.8727	0.8503	0.9907	0.8889	0.9116	0.8431	0.8595	-----	-----	0.888	9.20	1.00	1.00	5.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.7553	0.7718	0.9142	0.7987	0.8073	0.7509	0.7518	-----	-----	0.793	9.50	1.00	1.00	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	1.6442	1.5747	1.8428	1.7185	1.7536	1.6128	1.5568	1.8347	-----	1.69	9.35	0.999	1.00	6.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.65
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 2M158347.D **Instrument:** GCMS 2

Cont Calibration Date/Time 10/18/2021 9:29:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.10	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.70	46.77	50	20	0.1	0.417	0.390	6.46	
Dichlorodifluoromethane	1	0		1.68	60.10	50	20	0.1	0.274	0.329	20.19	
Chloromethane	1	0		1.86	61.47	50	20	0.1	0.229	0.281	22.95	C1
Bromomethane	1	0		2.25	49.22	50	20	0.1	0.162	0.160	1.57	
Vinyl Chloride	1	0		1.95	58.70	50	20	0.1	0.284	0.333	17.40	
Chloroethane	1	0		2.34	48.68	50	20	0.1	0.203	0.198	2.64	
Trichlorofluoromethane	1	0		2.56	49.79	50	20	0.1	0.634	0.631	0.42	
Ethyl ether	1	0		2.80	43.42	50	20	0.5	0.235	0.204	13.16	
Furan	1	0		2.84	45.12	50	20	0.5	0.574	0.518	9.75	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	52.43	50	20	0.1	0.317	0.332	4.86	
Methylene Chloride	1	0		3.41	50.77	50	20	0.1	0.318	0.322	1.53	
Acrolein	1	0		2.92	200.29	250	20		0.046	0.037	19.89	
Acrylonitrile	1	0		3.62	45.48	50	20		0.124	0.113	9.04	
Iodomethane	1	0		3.15	48.81	50	20		0.274	0.325	2.38	
Acetone	1	0		3.04	209.64	250	20	0.1	0.119	0.096	16.14	
Carbon Disulfide	1	0		3.21	49.28	50	20	0.1	0.864	0.851	1.44	
t-Butyl Alcohol	1	0		3.48	240.86	250	20		0.048	0.046	3.65	
n-Hexane	1	0		3.87	55.71	50	20		0.386	0.430	11.41	
Di-isopropyl-ether	1	0		4.03	49.01	50	20		0.912	0.894	1.98	
1,1-Dichloroethene	1	0		3.01	52.08	50	20	0.1	0.488	0.509	4.17	
Methyl Acetate	1	0		3.31	43.69	50	20	0.1	0.311	0.272	12.61	
Methyl-t-butyl ether	1	0		3.64	49.16	50	20	0.1	0.763	0.750	1.67	
1,1-Dichloroethane	1	0		4.00	52.18	50	20	0.2	0.516	0.538	4.36	
trans-1,2-Dichloroethene	1	0		3.65	54.81	50	20	0.1	0.329	0.361	9.62	
Ethyl-t-butyl ether	1	0		4.29	49.15	50	20	0.5	0.814	0.800	1.70	
cis-1,2-Dichloroethene	1	0		4.41	52.33	50	20	0.1	0.525	0.549	4.65	
Bromochloromethane	1	0		4.56	48.78	50	20		0.244	0.238	2.44	
2,2-Dichloropropane	1	0		4.42	56.18	50	20		0.479	0.538	12.37	
Ethyl acetate	1	0		4.43	43.71	50	20		0.389	0.340	12.58	
1,4-Dioxane	1	0		5.49	2339.24	2500	20		0.005	0.005	6.43	
1,1-Dichloropropene	1	0		4.82	54.83	50	20		0.434	0.476	9.66	
Chloroform	1	0		4.60	53.88	50	20	0.2	0.571	0.616	7.77	
Dibromofluoromethane	1	0	S	4.70	32.33	75	**		0.305	0.328	7.78	
Cyclohexane	1	0		4.77	54.23	50	20	0.1	0.474	0.514	8.46	
1,2-Dichloroethane-d4	1	0	S	4.91	29.12	75	**		0.139	0.135	2.93	
1,2-Dichloroethane	1	0		4.95	51.66	50	20	0.1	0.425	0.439	3.32	
2-Butanone	1	0		4.41	47.75	50	20	0.1	0.180	0.140	4.50	
1,1,1-Trichloroethane	1	0		4.73	58.76	50	20	0.1	0.562	0.660	17.52	
Carbon Tetrachloride	1	0		4.83	59.80	50	20	0.1	0.542	0.648	19.59	
Vinyl Acetate	1	0		4.02	44.71	50	20		0.947	0.847	10.58	
Bromodichloromethane	1	0		5.57	53.71	50	20	0.2	0.417	0.448	7.42	
Methylcyclohexane	1	0		5.42	56.66	50	20	0.1	0.527	0.597	13.32	
Dibromomethane	1	0		5.50	54.10	50	20		0.314	0.340	8.20	
1,2-Dichloropropane	1	0		5.43	50.99	50	20	0.1	0.287	0.293	1.98	
Trichloroethene	1	0		5.30	56.16	50	20	0.2	0.420	0.471	12.33	
Benzene	1	0		4.95	53.14	50	20	0.5	1.141	1.212	6.28	
tert-Amyl methyl ether	1	0		4.99	49.92	50	20		0.740	0.739	0.17	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.95	37.25	50	20	0.5	0.631	0.470	25.51	C1
Methyl methacrylate	1	0		5.45	37.03	50	20	0.5	0.300	0.222	25.94	C1
Dibromochloromethane	1	0		6.42	45.28	50	20	0.1	0.375	0.339	9.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 2M158347.D **Instrument:** GCMS 2

Cont Calibration Date/Time 10/18/2021 9:29:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.71	40.86	50	20		0.151	0.123	18.28	
cis-1,3-Dichloropropene	1	0		5.80	44.05	50	20	0.2	0.428	0.377	11.91	
trans-1,3-Dichloropropene	1	0		6.09	43.59	50	20	0.1	0.398	0.347	12.81	
Ethyl methacrylate	1	0		6.10	40.94	50	20	0.5	0.295	0.242	18.12	
1,1,2-Trichloroethane	1	0		6.20	42.63	50	20	0.1	0.267	0.227	14.75	
1,2-Dibromoethane	1	0		6.49	43.11	50	20	0.1	0.298	0.257	13.77	
1,3-Dichloropropane	1	0		6.29	42.20	50	20		0.428	0.362	15.60	
4-Methyl-2-Pentanone	1	0		5.87	41.58	50	20	0.1	0.320	0.266	16.83	
2-Hexanone	1	0		6.31	40.89	50	20	0.1	0.244	0.199	18.23	
Tetrachloroethene	1	0		6.29	47.74	50	20	0.2	0.396	0.378	4.52	
Toluene-d8	1	0	S	5.95	27.17	75	**		1.042	0.944	9.42	
Toluene	1	0		5.99	44.41	50	20	0.4	0.786	0.698	11.17	
1,1,1,2-Tetrachloroethane	1	0		6.78	46.18	50	20		0.354	0.327	7.64	
Chlorobenzene	1	0		6.75	45.19	50	20	0.5	0.912	0.824	9.62	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	40.79	50	20	0.5	0.685	0.559	18.43	
n-Amyl acetate	1	0		7.11	36.61	50	20	0.5	0.690	0.506	26.79	C1
Bromoform	1	0		7.20	44.11	50	20	0.1	0.424	0.375	11.78	
Ethylbenzene	1	0		6.79	44.65	50	20	0.1	0.536	0.479	10.69	
1,1,2,2-Tetrachloroethane	1	0		7.42	40.06	50	20	0.1	0.473	0.379	19.88	
Bromofluorobenzene	1	0	S	7.37	31.03	75	**		0.839	0.868	3.42	
Styrene	1	0		7.07	44.03	50	20	0.3	1.287	1.134	11.95	
m&p-Xylenes	1	0		6.85	87.00	100	20	0.1	0.834	0.726	13.00	
o-Xylene	1	0		7.07	43.90	50	20	0.3	0.790	0.694	12.20	
trans-1,4-Dichloro-2-butene	1	0		7.45	40.08	50	20		0.256	0.205	19.83	
1,3-Dichlorobenzene	1	0		7.99	40.69	50	20	0.6	1.192	0.970	18.62	
1,4-Dichlorobenzene	1	0		8.04	39.40	50	20	0.5	1.210	0.953	21.19	C1
1,2-Dichlorobenzene	1	0		8.26	40.30	50	20	0.4	1.113	0.897	19.39	
Isopropylbenzene	1	0		7.26	46.02	50	20	0.1	2.107	1.939	7.96	
Cyclohexanone	1	0		7.34	215.21	250	20		0.024	0.021	13.92	
Camphene	1	0		7.43	46.98	50	20		0.745	0.700	6.05	
1,2,3-Trichloropropane	1	0		7.46	39.69	50	20		0.615	0.488	20.63	C1
2-Chlorotoluene	1	0		7.56	42.23	50	20		1.197	1.011	15.54	
p-Ethyltoluene	1	0		7.55	42.29	50	20		2.340	1.979	15.42	
4-Chlorotoluene	1	0		7.62	40.30	50	20		1.139	0.918	19.39	
n-Propylbenzene	1	0		7.49	43.66	50	20		2.367	2.067	12.68	
Bromobenzene	1	0		7.46	42.57	50	20		1.142	0.972	14.86	
1,3,5-Trimethylbenzene	1	0		7.58	42.77	50	20		1.593	1.363	14.46	
Butyl methacrylate	1	0		7.59	37.99	50	20	0.5	0.596	0.453	24.01	C1
t-Butylbenzene	1	0		7.78	44.62	50	20		1.876	1.674	10.77	
1,2,4-Trimethylbenzene	1	0		7.80	40.51	50	20		1.846	1.496	18.99	
sec-Butylbenzene	1	0		7.90	45.07	50	20		2.252	2.030	9.85	
4-Isopropyltoluene	1	0		7.97	40.60	50	20		2.154	1.749	18.79	
n-Butylbenzene	1	0		8.21	41.48	50	20		2.038	1.691	17.03	
p-Diethylbenzene	1	0		8.19	40.31	50	20		1.247	1.006	19.37	
1,2,4,5-Tetramethylbenzene	1	0		8.65	40.74	50	20		1.489	1.213	18.51	
1,2-Dibromo-3-Chloropropane	1	0		8.71	41.09	50	20	0.05	0.170	0.140	17.81	
Camphor	1	0		9.15	400.81	500	20		0.068	0.054	19.84	
Hexachlorobutadiene	1	0		9.28	45.88	50	20		0.660	0.605	8.25	
1,2,4-Trichlorobenzene	1	0		9.20	37.97	50	20	0.2	0.888	0.675	24.05	C1
1,2,3-Trichlorobenzene	1	0		9.50	38.91	50	20		0.793	0.617	22.18	C1
Naphthalene	1	0		9.36	39.97	50	20		1.692	1.353	20.06	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1101601 0045

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M157875.D Method: EPA 8260D

Analysis Date/Time: 10/07/21 12:27

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	237313	5.10	209238	6.73	144355	8.02								
Eval File Area Limit:	118656-474626		104619-418476		72178-288710									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									
Data File Sample														
2M157868.D BLK	214573	5.10	223025	6.73	154022	8.02								
2M157871.D CAL @ 0.5PPB	200026	5.10	206822	6.73	142665	8.02								
2M157872.D CAL @ 1PPB	199601	5.10	207243	6.73	143042	8.02								
2M157873.D CAL @ 5PPB	200523	5.10	205633	6.73	147451	8.02								
2M157874.D CAL @ 2PPB	212734	5.10	216815	6.73	152833	8.02								
2M157875.D CAL @ 20PPB	237313	5.10	209238	6.73	144355	8.02								
2M157876.D CAL @ 50PPB	215525	5.10	222698	6.73	170403	8.02								
2M157877.D CAL @ 100PPB	258939	5.10	234816	6.73	181838	8.02								
2M157878.D BLK	98552	5.10	98678	6.73	70986	8.02								
2M157879.D CAL @ 250PPB	219617	5.10	236502	6.73	186631	8.02								
2M157880.D BLK	230740	5.10	236273	6.73	164448	8.02								
2M157881.D CAL @ 500PPB	217872	5.10	240600	6.73	200735	8.02								
2M157883.D BLK	263717	5.10	269313	6.73	169829	8.02								
2M157884.D BLK	217737	5.10	223280	6.73	155273	8.02								
2M157885.D BLK	180352	5.10	183098	6.73	126666	8.02								
2M157886.D STD	223977	5.10	228135	6.73	172106	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101601 0046

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M158347.D Method: EPA 8260D

Analysis Date/Time: 10/18/21 21:29

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	252518	5.10	304547	6.73	230642	8.02								
Eval File Area Limit:	126259-505036		152274-609094		115321-461284									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									

Data File	Sample						
2M158348.D	50 PPB	244542	5.10	297773	6.73	224691	8.02
2M158349.D	BLK	254964	5.10	307455	6.73	228165	8.02
2M158350.D	BLK	261892	5.10	318985	6.73	238566	8.02
2M158351.D	BLK	259195	5.10	315030	6.73	236205	8.02
2M158352.D	DAILY BLANK	258467	5.10	316302	6.73	237380	8.02
2M158353.D	AD26668-001	261613	5.10	321719	6.73	236049	8.02
2M158354.D	MBS96992	264186	5.10	321647	6.73	243161	8.02
2M158355.D	AD26668-002(MS:AD	279789	5.10	341808	6.73	253674	8.02
2M158356.D	AD26668-003(MSD:A	279656	5.10	345797	6.73	258452	8.02
2M158357.D	BLK	269119	5.10	339199	6.73	252650	8.02
2M158358.D	BLK	266298	5.10	334493	6.73	249386	8.02
2M158359.D	AD26668-004	272675	5.10	339089	6.73	252403	8.02
2M158360.D	AD26668-005	273191	5.10	338571	6.73	252095	8.02
2M158361.D	AD26668-006	235336	5.10	288953	6.73	213330	8.02
2M158362.D	AD26668-007	287368	5.10	354900	6.73	265993	8.02
2M158363.D	AD26716-038	276533	5.10	346464	6.73	256639	8.03
2M158364.D	AD26716-048	283413	5.10	355096	6.73	268239	8.02
2M158365.D	AD26716-058	272267	5.10	326058	6.73	216404	8.02
2M158366.D	AD26716-068	271547	5.10	343107	6.73	258151	8.02
2M158367.D	AD26716-078	282397	5.10	353671	6.73	266940	8.02
2M158368.D	AD26716-088	270061	5.10	331265	6.73	225366	8.02
2M158369.D	AD26716-098	274191	5.10	333227	6.73	228588	8.02
2M158370.D	AD26708-002	276622	5.10	347739	6.73	266362	8.02
2M158371.D	AD26708-004	223868	5.10	278081	6.73	208702	8.02
2M158372.D	AD26708-006	260799	5.10	310433	6.73	203755	8.03
2M158373.D	AD26708-008	276440	5.10	346626	6.73	263896	8.02
2M158374.D	AD26708-010	264579	5.10	332238	6.73	250351	8.02
2M158375.D	AD26708-012	262984	5.10	326854	6.73	247881	8.02
2M158376.D	AD26715-001	250083	5.10	311874	6.73	225407	8.02
2M158377.D	AD26715-002	265415	5.10	328640	6.73	320343	8.02

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26715-001
Client Id: SB-006SS(14-16)
Data File: 9M109102.D
Analysis Date: 10/26/21 19:45
Date Rec/Extracted: 10/16/21-10/26/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	**50-32-8**	**Benzo[a]pyrene**	**0.040**	**0.66**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.040**	**0.87**
122-66-7	1,2-Diphenylhydrazine	0.040	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.040**	**0.44**
123-91-1	1,4-Dioxane	0.020	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.040**	**0.26**
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	100-51-6	Benzyl alcohol	0.040	U
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.0099	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.040	U
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	86-74-8	Carbazole	0.040	U
91-58-7	2-Chloronaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.60**
95-57-8	2-Chlorophenol	0.040	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.040**	**0.12**
91-57-6	2-Methylnaphthalene	0.040	U	**132-64-9**	**Dibenzofuran**	**0.010**	**0.016**
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.040	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.046	U
106-44-5	3&4-Methylphenol	0.012	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**1.2**
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.40**
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	91-20-3	Naphthalene	0.011	U
83-32-9	Acenaphthene	0.040	U	98-95-3	Nitrobenzene	0.040	U
208-96-8	Acenaphthylene	0.040	U	62-75-9	N-Nitrosodimethylamine	0.049	U
98-86-2	Acetophenone	0.040	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	**Anthracene**	**0.040**	**0.16**	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.040	U	87-86-5	Pentachlorophenol	0.20	U
100-52-7	Benzaldehyde	0.43	U	**85-01-8**	**Phenanthrene**	**0.040**	**0.46**
92-87-5	Benzidine	0.070	U	108-95-2	Phenol	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.74**	**129-00-0**	**Pyrene**	**0.040**	**1.1**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

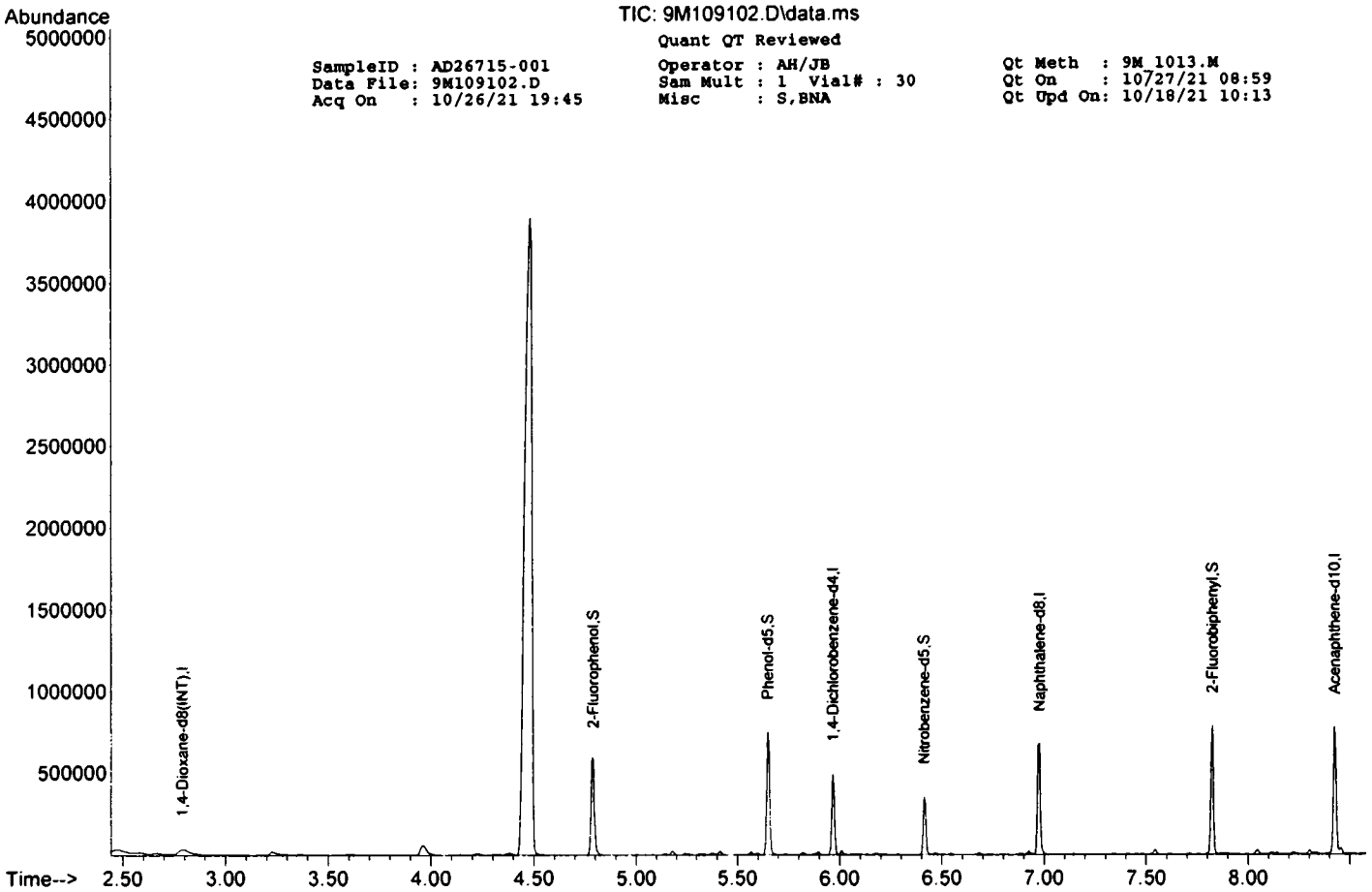
Quantitation Report (QT Reviewed)

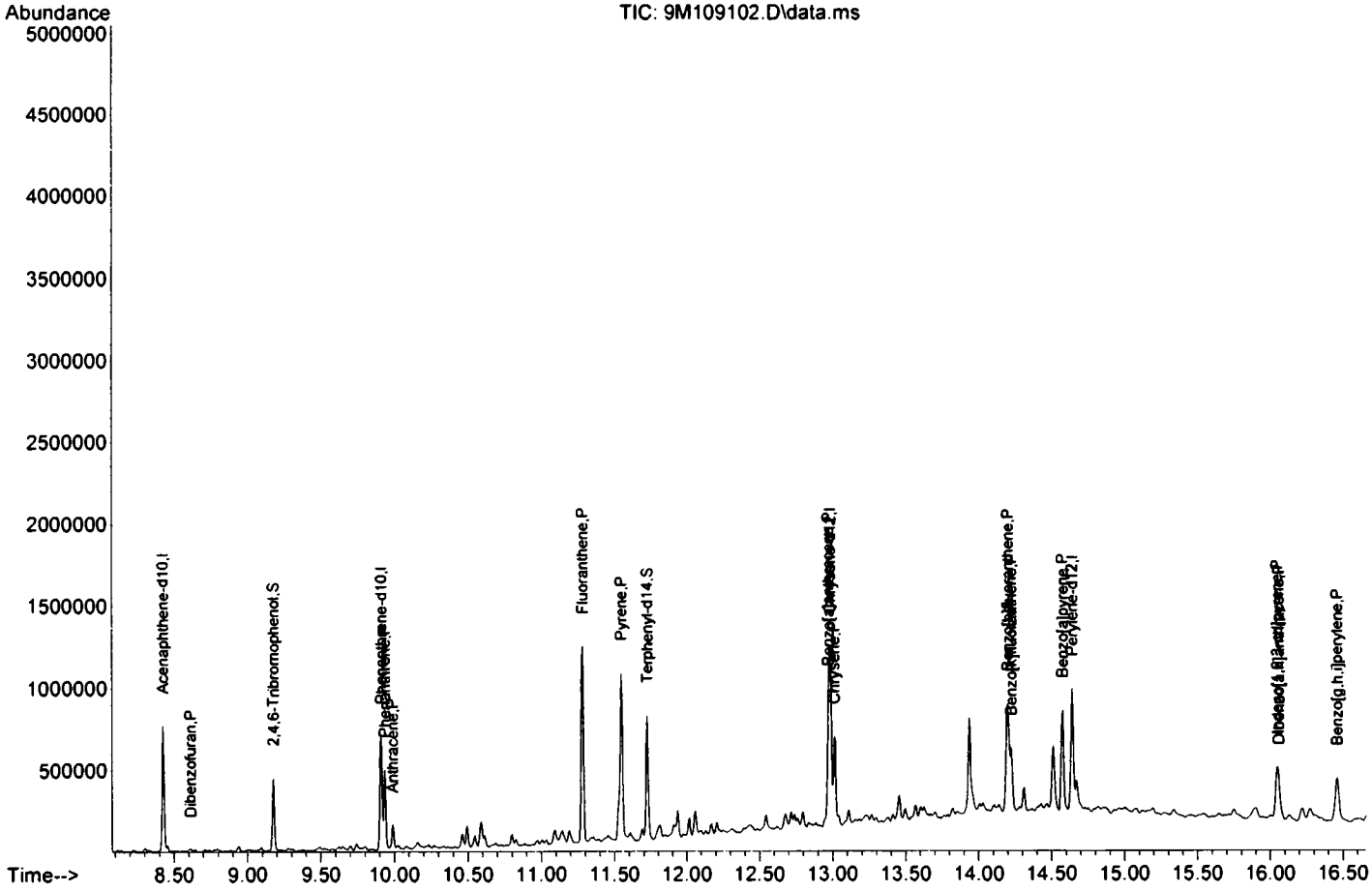
SampleID : AD26715-001 Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109102.D Sam Mult : 1 Vial# : 30 Qt On : 10/27/21 08:59
Acq On : 10/26/21 19:45 Misc : S,BNA Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-26-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.790	96	42871	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.966	152	76668	40.00	ng	0.00
31) Naphthalene-d8	6.978	136	306909	40.00	ng	0.00
50) Acenaphthene-d10	8.425	164	153461	40.00	ng	0.00
77) Phenanthrene-d10	9.913	188	292932	40.00	ng	0.00
91) Chrysene-d12	12.983	240	291718	40.00	ng	0.00
103) Perylene-d12	14.642	264	343766	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.790	112	200313	75.03	ng	0.02
Spiked Amount 100.000			Recovery = 75.03%			
16) Phenol-d5	5.648	99	255404	80.14	ng	0.00
Spiked Amount 100.000			Recovery = 80.14%			
32) Nitrobenzene-d5	6.413	128	50750	42.31	ng	0.00
Spiked Amount 50.000			Recovery = 84.62%			
55) 2-Fluorobiphenyl	7.825	172	233842	40.29	ng	0.00
Spiked Amount 50.000			Recovery = 80.58%			
80) 2,4,6-Tribromophenol	9.178	330	63077	62.77	ng	0.00
Spiked Amount 100.000			Recovery = 62.77%			
94) Terphenyl-d14	11.724	244	237922	46.52	ng	0.00
Spiked Amount 50.000			Recovery = 93.04%			
Target Compounds						Qvalue
68) Dibenzofuran	8.613	168	5881	0.8088	ng	85
86) Phenanthrene	9.936	178	189067	23.0923	ng	99
87) Anthracene	9.989	178	65173m	7.9497	ng	
90) Fluoranthene	11.283	202	544939	61.4890	ng	92
92) Pyrene	11.548	202	474056	54.7770	ng	93
100) Benzo[a]anthracene	12.971	228	327742	37.2760	ng	97
101) Chrysene	13.013	228	266773m	30.4575	ng	
105) Benzo[b]fluoranthene	14.201	252	416616m	44.0833	ng	
106) Benzo[k]fluoranthene	14.224	252	128763m	13.2056	ng	
107) Benzo[a]pyrene	14.577	252	304657	33.1442	ng	89
108) Indeno[1,2,3-cd]pyrene	16.048	276	221352	20.2387	ng	72
109) Dibenzo[a,h]anthracene	16.059	278	58619	6.2986	ng	88
110) Benzo[g,h,i]perylene	16.459	276	202400	22.2335	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 9M109102.D\data.ms
Quant QT Reviewed
SampleID : AD26715-001
Data File: 9M109102.D
Acq On : 10/26/21 19:45
Operator : AH/JB
Sam Mult : 1 Vial# : 30
Misc : S,BNA
Qt Meth : 9M_1013.M
Qt On : 10/27/21 08:59
Qt Upd On: 10/18/21 10:13
Abundance
Time-->
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I


TIC: 9M109102.D\data.ms
Abundance
Time-->
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Anthracene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26715-002
Client Id: SB-005SS(2-4)
Data File: 9M109103.D
Analysis Date: 10/26/21 20:08
Date Rec/Extracted: 10/16/21-10/26/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.037	U	**50-32-8**	**Benzo[a]pyrene**	**0.037**	**0.060**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.037**	**0.086**
122-66-7	1,2-Diphenylhydrazine	0.037	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.037**	**0.049**
123-91-1	1,4-Dioxane	0.019	U	207-08-9	Benzo[k]fluoranthene	0.037	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	100-51-6	Benzyl alcohol	0.037	U
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0094	U
120-83-2	2,4-Dichlorophenol	0.014	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.018	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.037**	**0.38**
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	86-74-8	Carbazole	0.037	U
91-58-7	2-Chloronaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.053**
95-57-8	2-Chlorophenol	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
91-57-6	2-Methylnaphthalene	0.037	U	132-64-9	Dibenzofuran	0.0095	U
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	84-74-2	Di-n-butylphthalate	0.043	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.10**
99-09-2	3-Nitroaniline	0.037	U	86-73-7	Fluorene	0.037	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.040**
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	**91-20-3**	**Naphthalene**	**0.011**	**0.034**
83-32-9	Acenaphthene	0.037	U	98-95-3	Nitrobenzene	0.037	U
208-96-8	Acenaphthylene	0.037	U	62-75-9	N-Nitrosodimethylamine	0.046	U
98-86-2	Acetophenone	0.037	U	621-64-7	N-Nitroso-di-n-propylamine	0.014	U
120-12-7	Anthracene	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.037	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.41	U	**85-01-8**	**Phenanthrene**	**0.037**	**0.048**
92-87-5	Benzidine	0.066	U	108-95-2	Phenol	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.058**	**129-00-0**	**Pyrene**	**0.037**	**0.11**

Worksheet #: 614763 *Total Target Concentration* 1 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

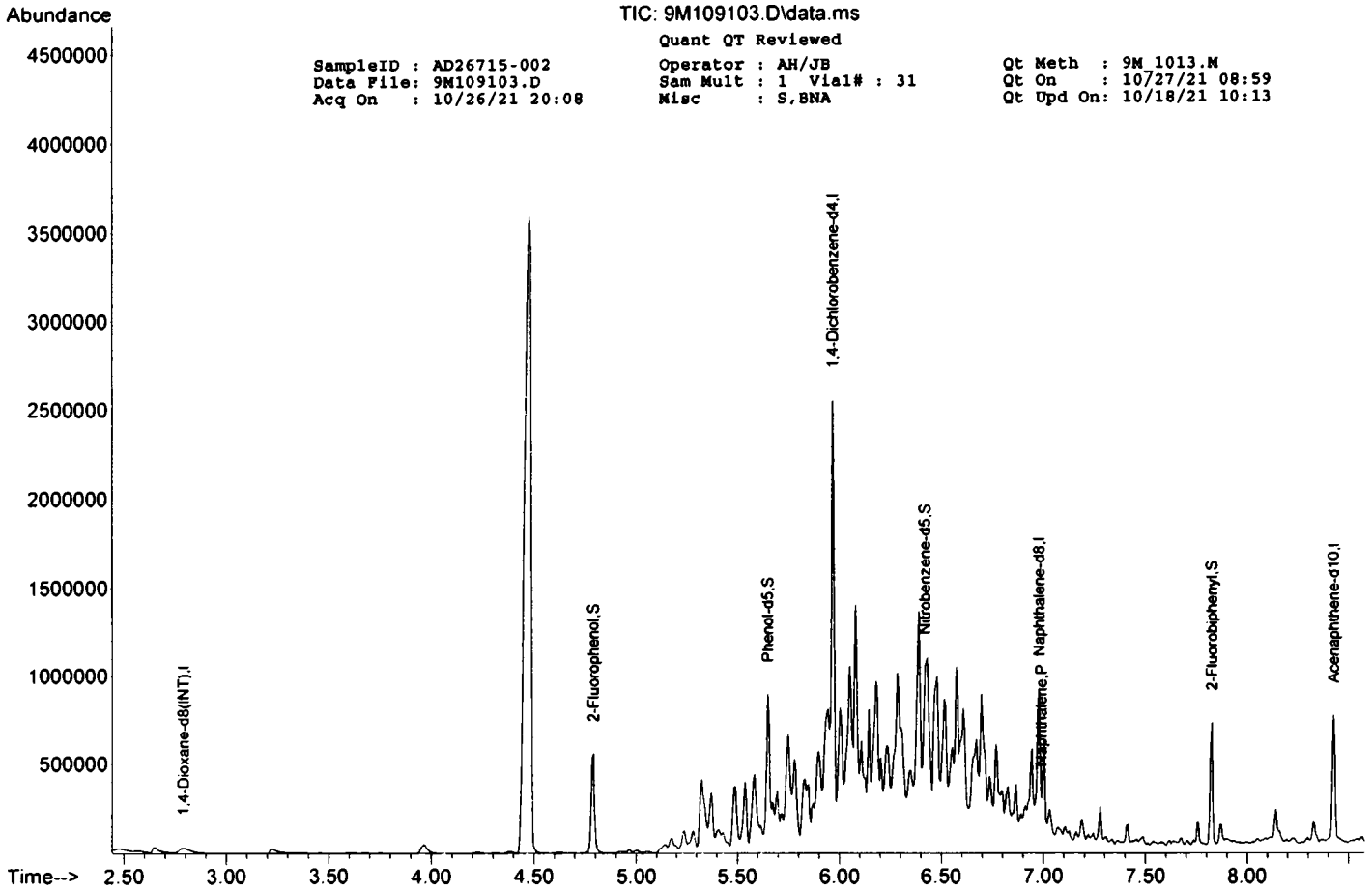
Quantitation Report (QT Reviewed)

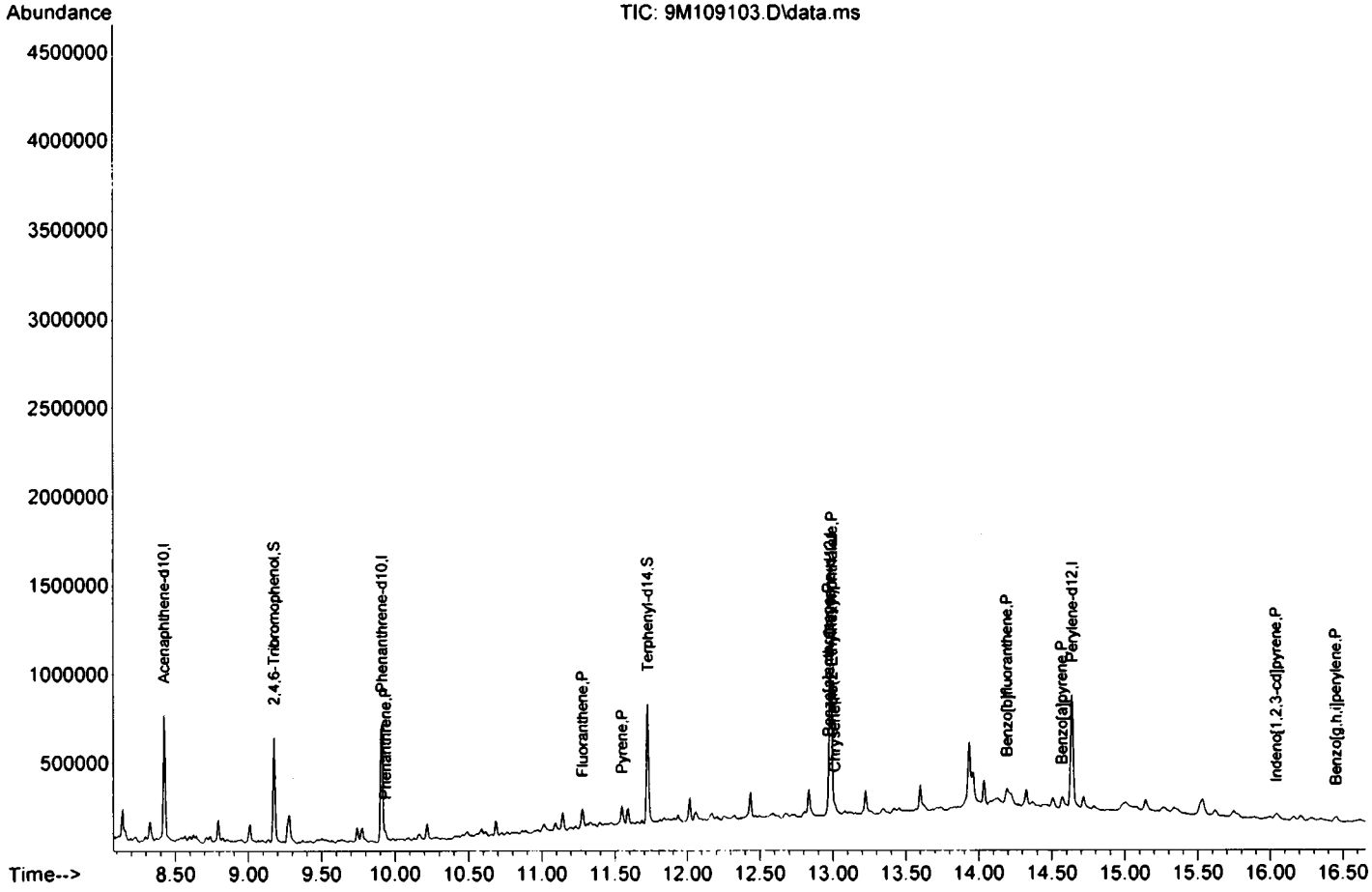
SampleID : AD26715-002 Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109103.D Sam Mult : 1 Vial# : 31 Qt On : 10/27/21 08:59
Acq On : 10/26/21 20:08 Misc : S,BNA Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-26-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.790	96	39961	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.966	152	74605	40.00	ng	0.00
31) Naphthalene-d8	6.978	136	266778	40.00	ng	0.00
50) Acenaphthene-d10	8.425	164	143327	40.00	ng	0.00
77) Phenanthrene-d10	9.913	188	269521	40.00	ng	0.00
91) Chrysene-d12	12.983	240	272834	40.00	ng	0.00
103) Perylene-d12	14.642	264	323801	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.790	112	187771	75.46	ng	0.02
Spiked Amount 100.000			Recovery = 75.46%			
16) Phenol-d5	5.648	99	241367	81.25	ng	0.00
Spiked Amount 100.000			Recovery = 81.25%			
32) Nitrobenzene-d5	6.419	128	47991	46.03	ng	0.00
Spiked Amount 50.000			Recovery = 92.06%			
55) 2-Fluorobiphenyl	7.825	172	207055	38.20	ng	0.00
Spiked Amount 50.000			Recovery = 76.40%			
80) 2,4,6-Tribromophenol	9.177	330	92589	94.87	ng	0.00
Spiked Amount 100.000			Recovery = 94.87%			
94) Terphenyl-d14	11.724	244	224533	46.94	ng	0.00
Spiked Amount 50.000			Recovery = 93.88%			
Target Compounds						Qvalue
41) Naphthalene	6.989	128	13295m	1.7967	ng	
86) Phenanthrene	9.936	178	19410m	2.5766	ng	
90) Fluoranthene	11.277	202	43691	5.3582	ng	96
92) Pyrene	11.548	202	45995	5.6826	ng	90
100) Benzo[a]anthracene	12.971	228	25466m	3.0969	ng	
101) Chrysene	13.013	228	23376	2.8536	ng	98
102) bis(2-Ethylhexyl)phtha...	12.995	149	81690	20.0665	ng	90
105) Benzo[b]fluoranthene	14.195	252	40763m	4.5792	ng	
107) Benzo[a]pyrene	14.571	252	27799	3.2108	ng	93
108) Indeno[1,2,3-cd]pyrene	16.042	276	22275	2.1622	ng	77
110) Benzo[g,h,i]perylene	16.453	276	22465	2.6199	ng	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M109103.D\data.ms
Quant QT Reviewed
SampleID : AD26715-002
Data File: 9M109103.D
Acq On : 10/26/21 20:08
Operator : AH/JB
Sam Mult : 1 Vial# : 31
Misc : S,BNA
Qt Meth : 9M_1013.M
Qt On : 10/27/21 08:59
Qt Upd On: 10/18/21 10:13
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->


Abundance
TIC: 9M109103.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[b]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95380
Client Id:
Data File: 9M109090.D
Analysis Date: 10/26/21 15:07
Date Rec/Extracted: NA-10/26/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 614763

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

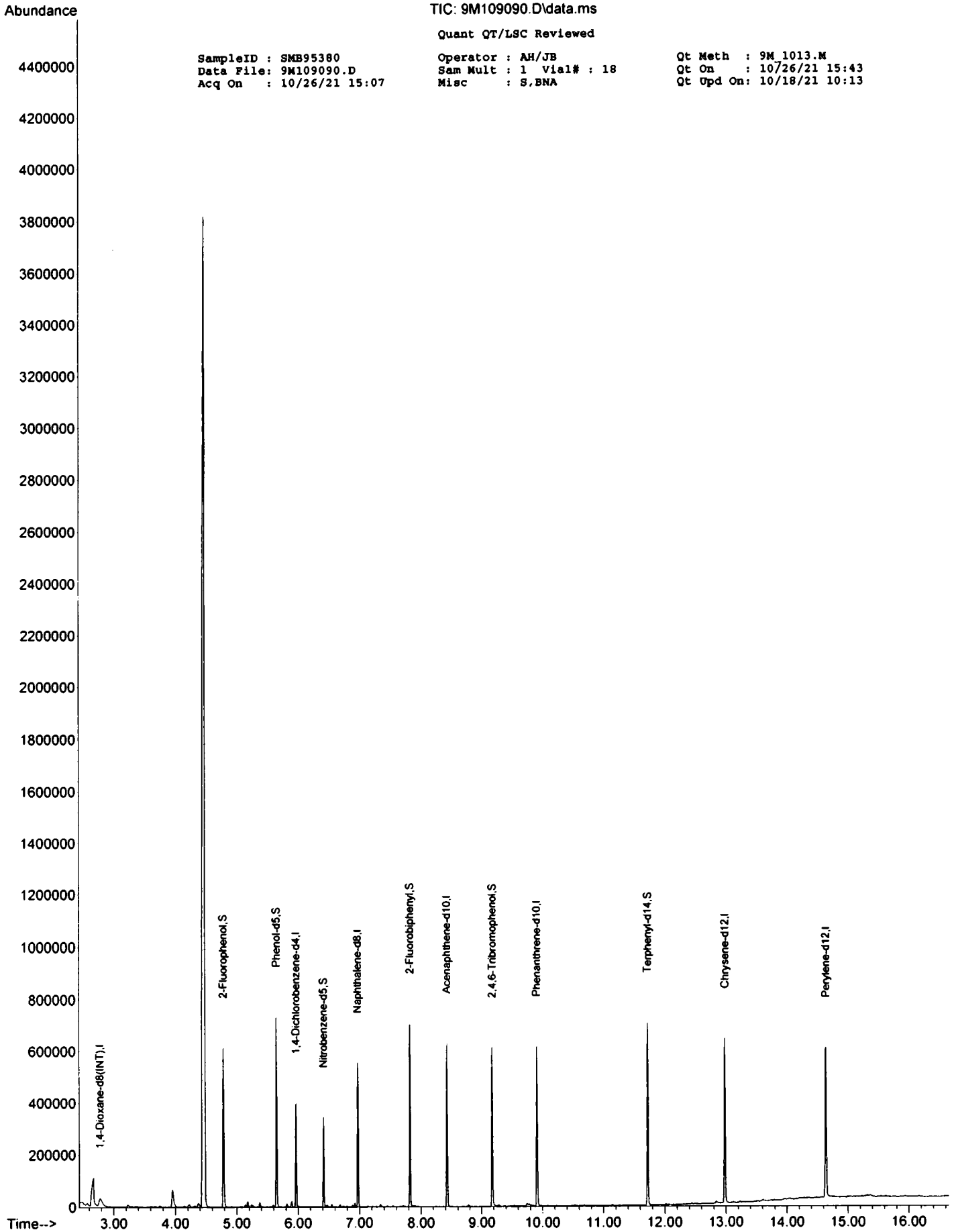
Quantitation Report (QT/LSC Reviewed)

SampleID : SMB95380 Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109090.D Sam Mult : 1 Vial# : 18 Qt On : 10/26/21 15:43
Acq On : 10/26/21 15:07 Misc : S,BNA Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-26-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.778	96	36617	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.966	152	59534	40.00	ng	0.00
31) Naphthalene-d8	6.972	136	243368	40.00	ng	0.00
50) Acenaphthene-d10	8.425	164	125765	40.00	ng	0.00
77) Phenanthrene-d10	9.907	188	241042	40.00	ng	0.00
91) Chrysene-d12	12.983	240	239758	40.00	ng	0.00
103) Perylene-d12	14.642	264	294276	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.784	112	186719	81.89	ng	0.01
Spiked Amount 100.000			Recovery = 81.89%			
16) Phenol-d5	5.649	99	240998	88.54	ng	0.00
Spiked Amount 100.000			Recovery = 88.54%			
32) Nitrobenzene-d5	6.413	128	46497	48.88	ng	0.00
Spiked Amount 50.000			Recovery = 97.76%			
55) 2-Fluorobiphenyl	7.825	172	220281	46.31	ng	0.00
Spiked Amount 50.000			Recovery = 92.62%			
80) 2,4,6-Tribromophenol	9.178	330	96574	108.27	ng	0.00
Spiked Amount 100.000			Recovery = 108.27%			
94) Terphenyl-d14	11.725	244	238162	56.66	ng	0.00
Spiked Amount 50.000			Recovery = 113.32%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M109090.D\data.ms
Quant QT/LSC Reviewed
SampleID : SMB95380
Data File: 9M109090.D
Acq On : 10/26/21 15:07
Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : S,BNA
Qt Meth : 9M_1013.M
Qt On : 10/26/21 15:43
Qt Upd On: 10/18/21 10:13
4400000
4200000
4000000
3800000
3600000
3400000
3200000
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M109090.D	SMB95380	S	10/26/21 15:07	1		82	89	98	93	108	113
9M109102.D	AD26715-001	S	10/26/21 19:45	1		75	80	85	81	63	93
9M109103.D	AD26715-002	S	10/26/21 20:08	1		75	81	92	76	95	94
5M118284.D	SMB95380(MS)	S	10/26/21 14:51	1		83	82	99	105	107	116
7M117418.D	AD26635-002	S	10/26/21 16:14	1		77	78	80	83	88	97
7M117419.D	AD26635-002(MS)	S	10/26/21 16:38	1		79	81	86	89	100	95
7M117420.D	AD26635-002(MSD)	S	10/26/21 17:02	1		79	81	87	90	104	99

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M118284.D	SMB95380(MS)	10/26/2021 2:51:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.6437	0	50	35	25	150
Pyridine	1	32.3927	0	50	65	1	150
N-Nitrosodimethylamine	1	34.6286	0	50	69	50	130
Benzaldehyde	1	29.27	0	50	59	20	220
Aniline	1	21.0046	0	50	42	20	150
Pentachloroethane	1	32.7659	0	50	66	50	130
bis(2-Chloroethyl)ether	1	35.0787	0	50	70	50	130
Phenol	1	72.1389	0	100	72	20	150
2-Chlorophenol	1	77.5929	0	100	78	50	130
N-Decane	1	27.0269	0	50	54	20	130
1,3-Dichlorobenzene	1	33.2737	0	50	67	60	130
1,4-Dichlorobenzene	1	40.5162	0	50	81	60	130
1,2-Dichlorobenzene	1	39.5125	0	50	79	50	130
Benzyl alcohol	1	44.8776	0	50	90	20	130
bis(2-chloroisopropyl)ether	1	36.1357	0	50	72	40	130
2-Methylphenol	1	94.2147	0	100	94	50	130
Acetophenone	1	45.5207	0	50	91	50	130
Hexachloroethane	1	40.0046	0	50	80	50	130
N-Nitroso-di-n-propylamine	1	44.1621	0	50	88	40	130
3&4-Methylphenol	1	101.7668	0	100	102	70	130
Nitrobenzene	1	43.6408	0	50	87	70	130
Isophorone	1	39.537	0	50	79	60	130
2-Nitrophenol	1	91.6947	0	100	92	70	130
2,4-Dimethylphenol	1	96.0281	0	100	96	40	130
Benzoic Acid	1	69.5623	0	100	70	20	130
bis(2-Chloroethoxy)methane	1	42.4596	0	50	85	60	130
2,4-Dichlorophenol	1	99.24	0	100	99	70	130
1,2,4-Trichlorobenzene	1	43.1248	0	50	86	50	130
Naphthalene	1	40.0561	0	50	80	50	130
4-Chloroaniline	1	30.4229	0	50	61	10	150
Hexachlorobutadiene	1	41.0795	0	50	82	60	130
Caprolactam	1	50.4324	0	50	101	50	130
4-Chloro-3-methylphenol	1	101.9962	0	100	102	50	130
2-Methylnaphthalene	1	43.5719	0	50	87	70	130
1-Methylnaphthalene	1	42.9993	0	50	86	70	130
1,1'-Biphenyl	1	41.0376	0	50	82	60	130
1,2,4,5-Tetrachlorobenzene	1	42.1637	0	50	84	70	130
Hexachlorocyclopentadiene	1	42.8074	0	50	86	20	160
2,4,6-Trichlorophenol	1	101.8728	0	100	102	70	130
2,4,5-Trichlorophenol	1	101.2444	0	100	101	70	130
2-Chloronaphthalene	1	42.3745	0	50	85	70	130
1,4-Dimethylnaphthalene	1	42.0255	0	50	84	70	130
Diphenyl Ether	1	42.583	0	50	85	70	130
2-Nitroaniline	1	46.93	0	50	94	50	130
Coumarin	1	42.4439	0	50	85	70	130
Acenaphthylene	1	40.7121	0	50	81	70	130
Dimethylphthalate	1	43.763	0	50	88	70	130
2,6-Dinitrotoluene	1	42.2008	0	50	84	70	130
Acenaphthene	1	42.081	0	50	84	50	130
3-Nitroaniline	1	33.145	0	50	66	10	130
2,4-Dinitrophenol	1	63.7932	0	100	64	20	150
Dibenzofuran	1	44.8649	0	50	90	70	130
2,4-Dinitrotoluene	1	43.6704	0	50	87	40	130
4-Nitrophenol	1	90.6695	0	100	91	20	150
2,3,4,6-Tetrachlorophenol	1	88.2909	0	100	88	70	130
Fluorene	1	42.6375	0	50	85	50	130
4-Chlorophenyl-phenylether	1	44.5655	0	50	89	70	130
Diethylphthalate	1	43.6432	0	50	87	70	130
4-Nitroaniline	1	43.9452	0	50	88	50	130
Atrazine	1	48.0727	0	50	96	50	130
4,6-Dinitro-2-methylphenol	1	84.7154	0	100	85	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.5531	0	50	71	50	130
1,2-Diphenylhydrazine	1	45.9766	0	50	92	70	130
4-Bromophenyl-phenylether	1	44.3459	0	50	89	70	130
Hexachlorobenzene	1	42.6175	0	50	85	70	130
N-Octadecane	1	36.948	0	50	74	70	130
Pentachlorophenol	1	104.9465	0	100	105	40	130
Phenanthrene	1	42.6367	0	50	85	70	130
Anthracene	1	41.8252	0	50	84	70	130
Carbazole	1	41.0627	0	50	82	70	130
Di-n-butylphthalate	1	44.6924	0	50	89	70	130
Fluoranthene	1	44.3496	0	50	89	70	130
Pyrene	1	42.6844	0	50	85	50	130
Benzidine	1	2.5434	0	50	5.1	0	130
Butylbenzylphthalate	1	45.2836	0	50	91	50	130
3,3'-Dichlorobenzidine	1	26.883	0	50	54	10	130
Benzo[a]anthracene	1	40.8997	0	50	82	70	130
Chrysene	1	45.4894	0	50	91	60	130
bis(2-Ethylhexyl)phthalate	1	46.2813	0	50	93	70	130
Di-n-octylphthalate	1	44.2867	0	50	89	70	130
Benzo[b]fluoranthene	1	45.6722	0	50	91	70	130
Benzo[k]fluoranthene	1	42.1394	0	50	84	70	130
Benzo[a]pyrene	1	43.6087	0	50	87	70	130
Indeno[1,2,3-cd]pyrene	1	47.304	0	50	95	70	130
Dibenzo[a,h]anthracene	1	43.2611	0	50	87	60	130
Benzo[g,h,i]perylene	1	44.0067	0	50	88	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M117419.D	AD26635-002(MS)	10/26/2021 4:38:00 PM
Non Spike(If applicable):	7M117418.D	AD26635-002	10/26/2021 4:14:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	13.866	0	50	28	25	150
Pyridine	1	28.4946	0	50	57	1	150
N-Nitrosodimethylamine	1	31.5263	0	50	63	50	130
Benzaldehyde	1	30.5604	0	50	61	20	220
Aniline	1	21.9114	0	50	44	20	150
Pentachloroethane	1	33.38	0	50	67	50	130
bis(2-Chloroethyl)ether	1	32.5374	0	50	65	50	130
N-Decane	1	25.843	0	50	52	20	130
1,3-Dichlorobenzene	1	33.0744	0	50	66	60	130
1,4-Dichlorobenzene	1	34.7238	0	50	69	60	130
1,2-Dichlorobenzene	1	34.8463	0	50	70	50	130
Benzyl alcohol	1	37.4673	0	50	75	20	130
bis(2-chloroisopropyl)ether	1	29.6016	0	50	59	40	130
Acetophenone	1	35.7375	0	50	71	50	130
Hexachloroethane	1	33.9968	0	50	68	50	130
N-Nitroso-di-n-propylamine	1	32.0484	0	50	64	40	130
Nitrobenzene	1	37.2652	0	50	75	70	130
Isophorone	1	33.2013	0	50	66	60	130
Benzoic Acid	1	61.7319	0	100	62	20	130
bis(2-Chloroethoxy)methane	1	35.8919	0	50	72	60	130
1,2,4-Trichlorobenzene	1	38.5383	0	50	77	50	130
Naphthalene	1	34.4033	0	50	69	50	130
4-Chloroaniline	1	15.7007	0	50	31	10	150
Hexachlorobutadiene	1	36.2106	0	50	72	60	130
Caprolactam	1	37.5953	0	50	75	50	130
2-Methylnaphthalene	1	37.9687	0	50	76	70	130
1-Methylnaphthalene	1	39.3865	0	50	79	70	130
1,1'-Biphenyl	1	37.5407	0	50	75	60	130
1,2,4,5-Tetrachlorobenzene	1	39.23	0	50	78	70	130
Hexachlorocyclopentadiene	1	34.4817	0	50	69	20	160
2-Chloronaphthalene	1	38.597	0	50	77	70	130
1,4-Dimethylnaphthalene	1	37.7698	0	50	76	70	130
Diphenyl Ether	1	39.4693	0	50	79	70	130
2-Nitroaniline	1	39.93	0	50	80	50	130
Coumarin	1	38.7332	0	50	77	70	130
Acenaphthylene	1	37.1013	0	50	74	70	130
Dimethylphthalate	1	38.3542	0	50	77	70	130
2,6-Dinitrotoluene	1	38.3392	0	50	77	70	130
Acenaphthene	1	37.64	0	50	75	50	130
3-Nitroaniline	1	28.2448	0	50	56*	70	130
Dibenzofuran	1	38.8865	0	50	78	70	130
2,4-Dinitrotoluene	1	38.6392	0	50	77	40	130
Fluorene	1	36.7961	0	50	74	50	130
4-Chlorophenyl-phenylether	1	37.5274	0	50	75	70	130
Diethylphthalate	1	36.3594	0	50	73	70	130
4-Nitroaniline	1	36.7444	0	50	73	50	130
Atrazine	1	38.6415	0	50	77	50	130
n-Nitrosodiphenylamine	1	33.4068	0	50	67	50	130
1,2-Diphenylhydrazine	1	40.1645	0	50	80	70	130
4-Bromophenyl-phenylether	1	39.947	0	50	80	70	130
Hexachlorobenzene	1	37.9234	0	50	76	70	130
N-Octadecane	1	37.2748	3.2746	50	68*	70	130
Phenanthrene	1	38.846	0	50	78	70	130
Anthracene	1	37.9914	0	50	76	70	130
Carbazole	1	37.5382	0	50	75	70	130
Di-n-butylphthalate	1	38.3007	0	50	77	70	130
Fluoranthene	1	38.0666	0	50	76	70	130
Pyrene	1	36.9861	0	50	74	50	130
Benzidine	1	2.5035	0	50	5	0	130
Butylbenzylphthalate	1	38.4931	0	50	77	50	130
3,3'-Dichlorobenzidine	1	23.6177	0	50	47	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	35.8768	0	50	72	70	130
Chrysene	1	39.3943	0	50	79	60	130
bis(2-Ethylhexyl)phthalate	1	40.1637	0	50	80	70	130
Di-n-octylphthalate	1	40.3705	0	50	81	70	130
Benzo[b]fluoranthene	1	38.9692	0	50	78	70	130
Benzo[k]fluoranthene	1	39.6963	0	50	79	70	130
Benzo[a]pyrene	1	37.3446	0	50	75	70	130
Indeno[1,2,3-cd]pyrene	1	39.1699	0	50	78	70	130
Dibenzo[a,h]anthracene	1	38.4907	0	50	77	60	130
Benzo[g,h,i]perylene	1	38.2152	0	50	76	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M117420.D	AD26635-002(MSD)	10/26/2021 5:02:00 PM
Non Spike(If applicable):	7M117418.D	AD26635-002	10/26/2021 4:14:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	14.2659	0	50	29	25	150
Pyridine	1	27.3396	0	50	55	1	150
N-Nitrosodimethylamine	1	32.6186	0	50	65	50	130
Benzaldehyde	1	30.2958	0	50	61	20	220
Aniline	1	24.6292	0	50	49	20	150
Pentachloroethane	1	32.7045	0	50	65	50	130
bis(2-Chloroethyl)ether	1	33.6632	0	50	67	50	130
N-Decane	1	25.7177	0	50	51	20	130
1,3-Dichlorobenzene	1	34.0348	0	50	68	60	130
1,4-Dichlorobenzene	1	35.3987	0	50	71	60	130
1,2-Dichlorobenzene	1	35.158	0	50	70	50	130
Benzyl alcohol	1	38.4574	0	50	77	20	130
bis(2-chloroisopropyl)ether	1	30.024	0	50	60	40	130
Acetophenone	1	34.7842	0	50	70	50	130
Hexachloroethane	1	34.6448	0	50	69	50	130
N-Nitroso-di-n-propylamine	1	32.3917	0	50	65	40	130
Nitrobenzene	1	37.8922	0	50	76	70	130
Isophorone	1	34.2233	0	50	68	60	130
Benzoic Acid	1	57.6071	0	100	58	20	130
bis(2-Chloroethoxy)methane	1	37.0423	0	50	74	60	130
1,2,4-Trichlorobenzene	1	39.4384	0	50	79	50	130
Naphthalene	1	35.6603	0	50	71	50	130
4-Chloroaniline	1	17.9854	0	50	36	10	150
Hexachlorobutadiene	1	37.1455	0	50	74	60	130
Caprolactam	1	37.2123	0	50	74	50	130
2-Methylnaphthalene	1	39.1945	0	50	78	70	130
1-Methylnaphthalene	1	37.9254	0	50	76	70	130
1,1'-Biphenyl	1	36.9473	0	50	74	60	130
1,2,4,5-Tetrachlorobenzene	1	38.2194	0	50	76	70	130
Hexachlorocyclopentadiene	1	36.3578	0	50	73	20	160
2-Chloronaphthalene	1	39.6386	0	50	79	70	130
1,4-Dimethylnaphthalene	1	35.9349	0	50	72	70	130
Diphenyl Ether	1	38.8802	0	50	78	70	130
2-Nitroaniline	1	41.6935	0	50	83	50	130
Coumarin	1	38.3175	0	50	77	70	130
Acenaphthylene	1	37.9872	0	50	76	70	130
Dimethylphthalate	1	39.8102	0	50	80	70	130
2,6-Dinitrotoluene	1	39.2257	0	50	78	70	130
Acenaphthene	1	38.9154	0	50	78	50	130
3-Nitroaniline	1	32.2331	0	50	64*	70	130
Dibenzofuran	1	39.9622	0	50	80	70	130
2,4-Dinitrotoluene	1	39.7075	0	50	79	40	130
Fluorene	1	37.5012	0	50	75	50	130
4-Chlorophenyl-phenylether	1	39.0327	0	50	78	70	130
Diethylphthalate	1	37.6494	0	50	75	70	130
4-Nitroaniline	1	38.1332	0	50	76	50	130
Atrazine	1	38.0981	0	50	76	50	130
n-Nitrosodiphenylamine	1	35.0491	0	50	70	50	130
1,2-Diphenylhydrazine	1	41.9759	0	50	84	70	130
4-Bromophenyl-phenylether	1	41.8004	0	50	84	70	130
Hexachlorobenzene	1	39.5227	0	50	79	70	130
N-Octadecane	1	37.6119	3.2746	50	69*	70	130
Phenanthrene	1	40.2709	0	50	81	70	130
Anthracene	1	39.3505	0	50	79	70	130
Carbazole	1	37.7017	0	50	75	70	130
Di-n-butylphthalate	1	40.9559	0	50	82	70	130
Fluoranthene	1	39.3948	0	50	79	70	130
Pyrene	1	39.4983	0	50	79	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	41.1443	0	50	82	50	130
3,3'-Dichlorobenzidine	1	28.6123	0	50	57	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	37.9183	0	50	76	70	130
Chrysene	1	41.8768	0	50	84	60	130
bis(2-Ethylhexyl)phthalate	1	42.7538	0	50	86	70	130
Di-n-octylphthalate	1	42.5127	0	50	85	70	130
Benzo[b]fluoranthene	1	42.9746	0	50	86	70	130
Benzo[k]fluoranthene	1	43.2521	0	50	87	70	130
Benzo[a]pyrene	1	38.8565	0	50	78	70	130
Indeno[1,2,3-cd]pyrene	1	41.987	0	50	84	70	130
Dibenzo[a,h]anthracene	1	41.307	0	50	83	60	130
Benzo[g,h,i]perylene	1	40.6348	0	50	81	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95380

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M117420.D	AD26635-002(MSD)	10/26/2021 5:02:00 PM
Duplicate(If applicable):	7M117419.D	AD26635-002(MS)	10/26/2021 4:38:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	14.2659	13.866	2.8	30
Pyridine	1	27.3396	28.4946	4.1	30
N-Nitrosodimethylamine	1	32.6186	31.5263	3.4	30
Benzaldehyde	1	30.2958	30.5604	0.87	30
Aniline	1	24.6292	21.9114	12	30
Pentachloroethane	1	32.7045	33.38	2	30
bis(2-Chloroethyl)ether	1	33.6632	32.5374	3.4	30
N-Decane	1	25.7177	25.843	0.49	30
1,3-Dichlorobenzene	1	34.0348	33.0744	2.9	30
1,4-Dichlorobenzene	1	35.3987	34.7238	1.9	40
1,2-Dichlorobenzene	1	35.158	34.8463	0.89	30
Benzyl alcohol	1	38.4574	37.4673	2.6	30
bis(2-chloroisopropyl)ether	1	30.024	29.6016	1.4	30
Acetophenone	1	34.7842	35.7375	2.7	30
Hexachloroethane	1	34.6448	33.9968	1.9	30
N-Nitroso-di-n-propylamine	1	32.3917	32.0484	1.1	40
Nitrobenzene	1	37.8922	37.2652	1.7	30
Isophorone	1	34.2233	33.2013	3	30
Benzoic Acid	1	57.6071	61.7319	6.9	30
bis(2-Chloroethoxy)methane	1	37.0423	35.8919	3.2	30
1,2,4-Trichlorobenzene	1	39.4384	38.5383	2.3	40
Naphthalene	1	35.6603	34.4033	3.6	40
4-Chloroaniline	1	17.9854	15.7007	14	30
Hexachlorobutadiene	1	37.1455	36.2106	2.5	30
Caprolactam	1	37.2123	37.5953	1	30
2-Methylnaphthalene	1	39.1945	37.9687	3.2	30
1-Methylnaphthalene	1	37.9254	39.3865	3.8	30
1,1'-Biphenyl	1	36.9473	37.5407	1.6	30
1,2,4,5-Tetrachlorobenzene	1	38.2194	39.23	2.6	30
Hexachlorocyclopentadiene	1	36.3578	34.4817	5.3	30
2-Chloronaphthalene	1	39.6386	38.597	2.7	30
1,4-Dimethylnaphthalene	1	35.9349	37.7698	5	30
Diphenyl Ether	1	38.8802	39.4693	1.5	30
2-Nitroaniline	1	41.6935	39.93	4.3	30
Coumarin	1	38.3175	38.7332	1.1	30
Acenaphthylene	1	37.9872	37.1013	2.4	30
Dimethylphthalate	1	39.8102	38.3542	3.7	30
2,6-Dinitrotoluene	1	39.2257	38.3392	2.3	30
Acenaphthene	1	38.9154	37.64	3.3	40
3-Nitroaniline	1	32.2331	28.2448	13	30
Dibenzofuran	1	39.9622	38.8865	2.7	30
2,4-Dinitrotoluene	1	39.7075	38.6392	2.7	40
Fluorene	1	37.5012	36.7961	1.9	40
4-Chlorophenyl-phenylether	1	39.0327	37.5274	3.9	30
Diethylphthalate	1	37.6494	36.3594	3.5	30
4-Nitroaniline	1	38.1332	36.7444	3.7	30
Atrazine	1	38.0981	38.6415	1.4	30
n-Nitrosodiphenylamine	1	35.0491	33.4068	4.8	30
1,2-Diphenylhydrazine	1	41.9759	40.1645	4.4	30
4-Bromophenyl-phenylether	1	41.8004	39.947	4.5	30
Hexachlorobenzene	1	39.5227	37.9234	4.1	30
N-Octadecane	1	37.6119	37.2748	0.9	30
Phenanthrene	1	40.2709	38.846	3.6	30
Anthracene	1	39.3505	37.9914	3.5	30
Carbazole	1	37.7017	37.5382	0.43	30
Di-n-butylphthalate	1	40.9559	38.3007	6.7	30
Fluoranthene	1	39.3948	38.0666	3.4	30
Pyrene	1	39.4983	36.9861	6.6	40
Benzidine	1	0	2.5035	200*	30
Butylbenzylphthalate	1	41.1443	38.4931	6.7	40
3,3'-Dichlorobenzidine	1	28.6123	23.6177	19	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95380

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	37.9183	35.8768	5.5	30
Chrysene	1	41.8768	39.3943	6.1	30
bis(2-Ethylhexyl)phthalate	1	42.7538	40.1637	6.2	30
Di-n-octylphthalate	1	42.5127	40.3705	5.2	30
Benzo[b]fluoranthene	1	42.9746	38.9692	9.8	30
Benzo[k]fluoranthene	1	43.2521	39.6963	8.6	30
Benzo[a]pyrene	1	38.8565	37.3446	4	30
Indeno[1,2,3-cd]pyrene	1	41.987	39.1699	6.9	30
Dibenzo[a,h]anthracene	1	41.307	38.4907	7.1	30
Benzo[g,h,i]perylene	1	40.6348	38.2152	6.1	30

* - Indicates outside of limits | NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95380
Blank Data File: 9M109090.D
Matrix: Soil

Blank Analysis Date: 10/26/21 15:07
Blank Extraction Date: 10/26/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD26715-001	9M109102.D	10/26/21 19:45
AD26715-002	9M109103.D	10/26/21 20:08
AD26635-002(MSD	7M117420.D	10/26/21 17:02
AD26635-002(MS)	7M117419.D	10/26/21 16:38
AD26635-002	7M117418.D	10/26/21 16:14
SMB95380(MS)	5M118284.D	10/26/21 14:51

Form 5

Tune Name: CAL DFTPP **Data File:** 5M118178.D
Instrument: GCMS 5 **Analysis Date:** 10/13/21 09:17
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.957 to 9.962 min

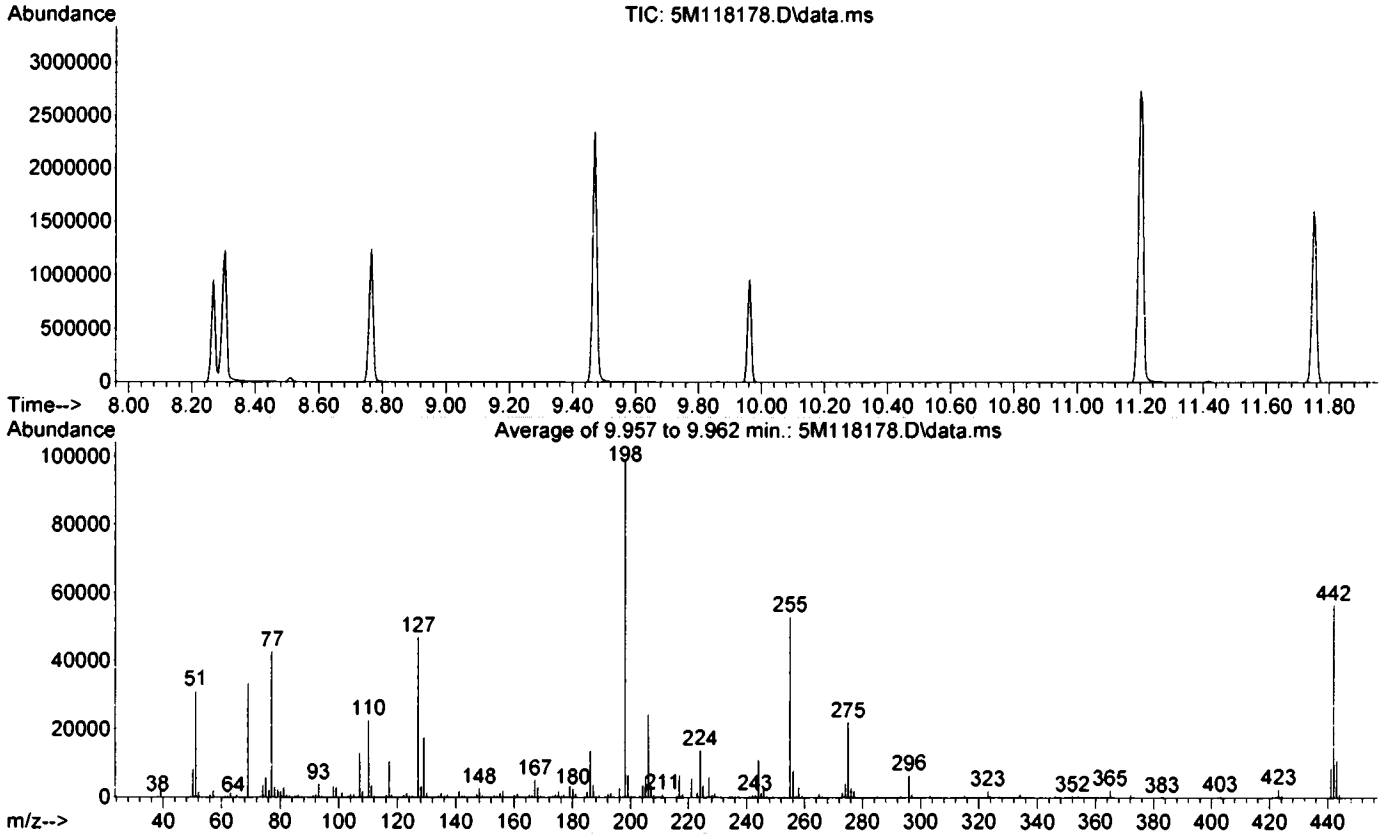
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.5	31284	PASS
68	69	0.00	2	0.8	273	PASS
69	198	0.00	100	33.6	33424	PASS
70	69	0.00	2	0.7	231	PASS
127	198	40	60	47.2	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99352	PASS
199	198	5	9	6.6	6600	PASS
275	198	10	30	22.3	22159	PASS
365	198	1	100	2.3	2334	PASS
441	443	0.01	100	79.0	8731	PASS
442	198	40	100	56.9	56568	PASS
443	442	17	23	19.5	11045	PASS

Data File	Sample Number	Analysis Date:
5M118179.D	CAL BNA@50PPM	10/13/21 09:46
5M118180.D	CAL BNA@10PPM	10/13/21 10:09
5M118181.D	CAL BNA@2PPM	10/13/21 10:32
5M118182.D	CAL BNA@196PP	10/13/21 10:56
5M118183.D	CAL BNA@160PP	10/13/21 11:20
5M118184.D	CAL BNA@120PP	10/13/21 11:51
5M118185.D	CAL BNA@80PPM	10/13/21 12:20
5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5M118187.D	CAL BNA@0.5PP	10/13/21 13:08
5M118188.D	ICV BNA@50PPM	10/13/21 13:34
5M118189.D	AD26497-008	10/13/21 14:00
5M118190.D	AD26497-007	10/13/21 14:24
5M118191.D	AD26509-002	10/13/21 14:48
5M118192.D	AD26509-001	10/13/21 15:12
5M118193.D	AD26503-021	10/13/21 15:35
5M118194.D	AD26497-007(MS)	10/13/21 15:59
5M118195.D	AD26497-007(MSD	10/13/21 16:23
5M118196.D	WMB95219	10/13/21 16:47

Data Path : G:\GcMsData\2021\GCMS_5\Data\10-13-21\
Data File : 5M118178.D
Acq On : 13 Oct 2021 9:17
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1011.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Oct 11 13:00:58 2021



Spectrum Information: Average of 9.957 to 9.962 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.5	31284	PASS
68	69	0.00	2	0.8	273	PASS
69	198	0.00	100	33.6	33424	PASS
70	69	0.00	2	0.7	231	PASS
127	198	40	60	47.2	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99352	PASS
199	198	5	9	6.6	6600	PASS
275	198	10	30	22.3	22159	PASS
365	198	1	100	2.3	2334	PASS
441	443	0.01	100	79.0	8731	PASS
442	198	40	100	56.9	56568	PASS
443	442	17	23	19.5	11045	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M108708.D
Instrument: GCMS 9 **Analysis Date:** 10/13/21 08:48
Method: EPA 8270E
Tune Scan/Time Range: Average of 10.178 to 10.183 min

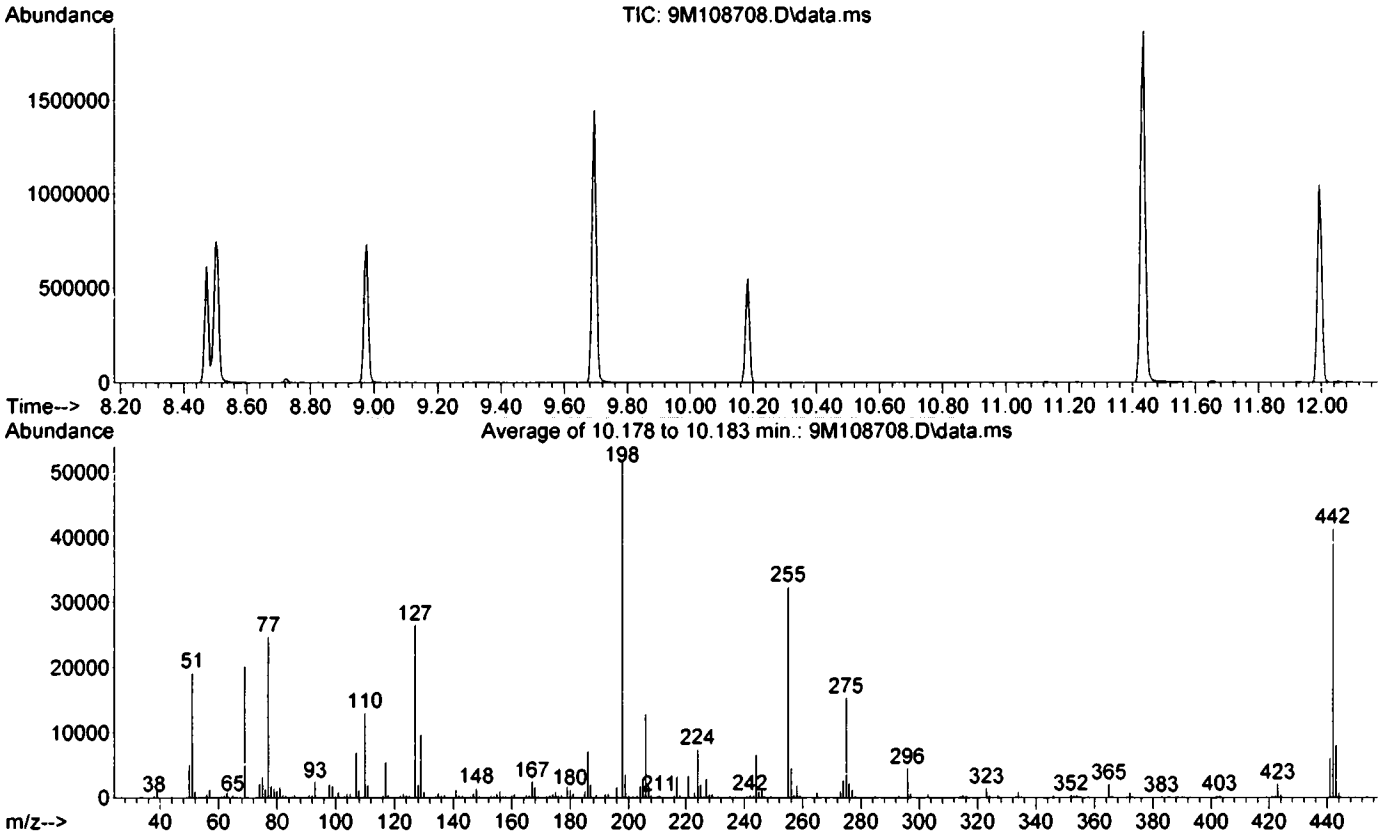
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

Data File	Sample Number	Analysis Date:
9M108709.D	CAL BNA@10PPM	10/13/21 09:10
9M108710.D	CAL BNA@2PPM	10/13/21 09:41
9M108711.D	CAL BNA@196PP	10/13/21 10:04
9M108712.D	CAL BNA@160PP	10/13/21 10:27
9M108713.D	CAL BNA@120PP	10/13/21 10:50
9M108714.D	CAL BNA@80PPM	10/13/21 11:13
9M108715.D	CAL BNA@20PPM	10/13/21 11:35
9M108716.D	CAL BNA@0.5PP	10/13/21 11:58
9M108717.D	CAL BNA@50PPM	10/13/21 12:21
9M108718.D	BNA@50PPM	10/13/21 12:44
9M108719.D	ICV BNA@50PPM	10/13/21 13:15
9M108720.D	SMB95218	10/13/21 13:38
9M108721.D	AD26497-002	10/13/21 14:01
9M108722.D	AD26497-003	10/13/21 14:24
9M108723.D	AD26497-004	10/13/21 14:47
9M108724.D	AD26497-005	10/13/21 15:10
9M108725.D	AD26383-001(30X)	10/13/21 15:34
9M108726.D	OMB95201	10/13/21 15:57
9M108727.D	SMB95218(MS)	10/13/21 16:20
9M108728.D	SMB95225	10/13/21 16:43
9M108729.D	SMB95225(MS)	10/13/21 17:06
9M108730.D	AD26503-007	10/13/21 17:29
9M108731.D	AD26503-002	10/13/21 17:52
9M108732.D	AD26503-015	10/13/21 18:15
9M108733.D	AD26503-009	10/13/21 18:38
9M108734.D	AD26503-005	10/13/21 19:01
9M108735.D	AD26503-001	10/13/21 19:24
9M108736.D	AD26404-001	10/13/21 19:47
9M108737.D	AD26404-001(MS)	10/13/21 20:10
9M108738.D	AD26404-001(MSD	10/13/21 20:33

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-13-21\
Data File : 9M108708.D
Acq On : 13 Oct 2021 8:48
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1012.M
Title : @GCMS_9,mg,625,8270
Last Update : Tue Oct 12 13:44:04 2021



Spectrum Information: Average of 10.178 to 10.183 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M117279.D
Instrument: GCMS 7 **Analysis Date:** 10/19/21 09:59
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.990 to 10.002 min

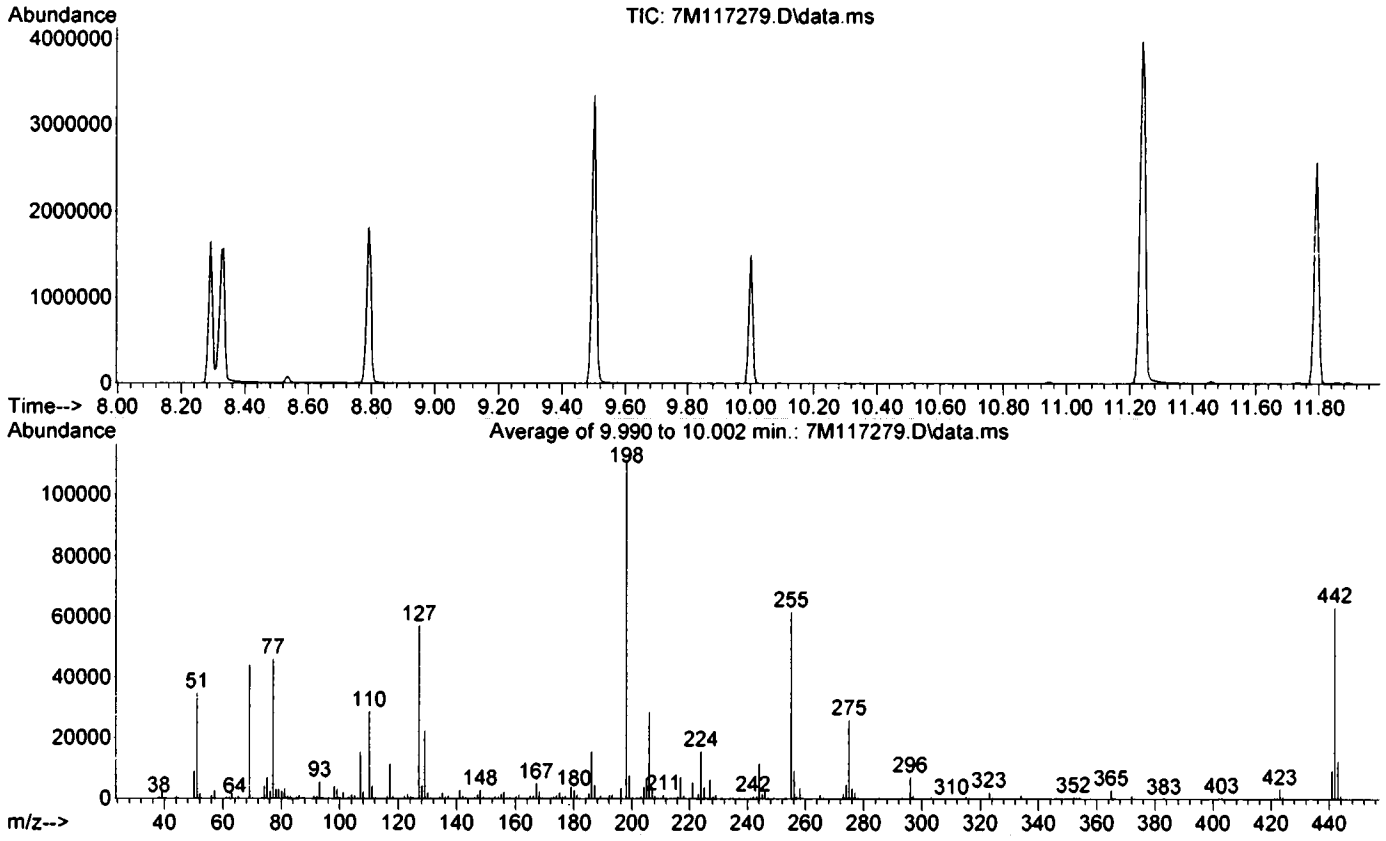
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.3	34826	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	44264	PASS
70	69	0.00	2	0.4	177	PASS
127	198	40	60	51.4	57208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111277	PASS
199	198	5	9	7.0	7788	PASS
275	198	10	30	23.5	26164	PASS
365	198	1	100	2.7	3010	PASS
441	443	0.01	100	74.5	9393	PASS
442	198	40	100	57.0	63373	PASS
443	442	17	23	19.9	12603	PASS

Data File	Sample Number	Analysis Date:
7M117280.D	CAL BNA@50PPM	10/19/21 10:23
7M117281.D	CAL BNA@10PPM	10/19/21 10:47
7M117282.D	CAL BNA@2PPM	10/19/21 11:10
7M117283.D	CAL BNA@196PP	10/19/21 11:34
7M117284.D	CAL BNA@160PP	10/19/21 11:57
7M117285.D	CAL BNA@120PP	10/19/21 12:20
7M117286.D	CAL BNA@80PPM	10/19/21 12:44
7M117287.D	CAL BNA@20PPM	10/19/21 13:07
7M117288.D	CAL BNA@0.5PP	10/19/21 13:31
7M117289.D	ICV BNA@50PPM	10/19/21 13:54

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-19-21\
Data File : 7M117279.D
Acq On : 19 Oct 2021 9:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_0920.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 20 13:06:38 2021



Spectrum Information: Average of 9.990 to 10.002 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	34826	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	44264	PASS
70	69	0.00	2	0.4	177	PASS
127	198	40	60	51.4	57208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111277	PASS
199	198	5	9	7.0	7788	PASS
275	198	10	30	23.5	26164	PASS
365	198	1	100	2.7	3010	PASS
441	443	0.01	100	74.5	9393	PASS
442	198	40	100	57.0	63373	PASS
443	442	17	23	19.9	12603	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109073.D
Analysis Date: 10/26/21 08:32
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.166 to 10.172 min

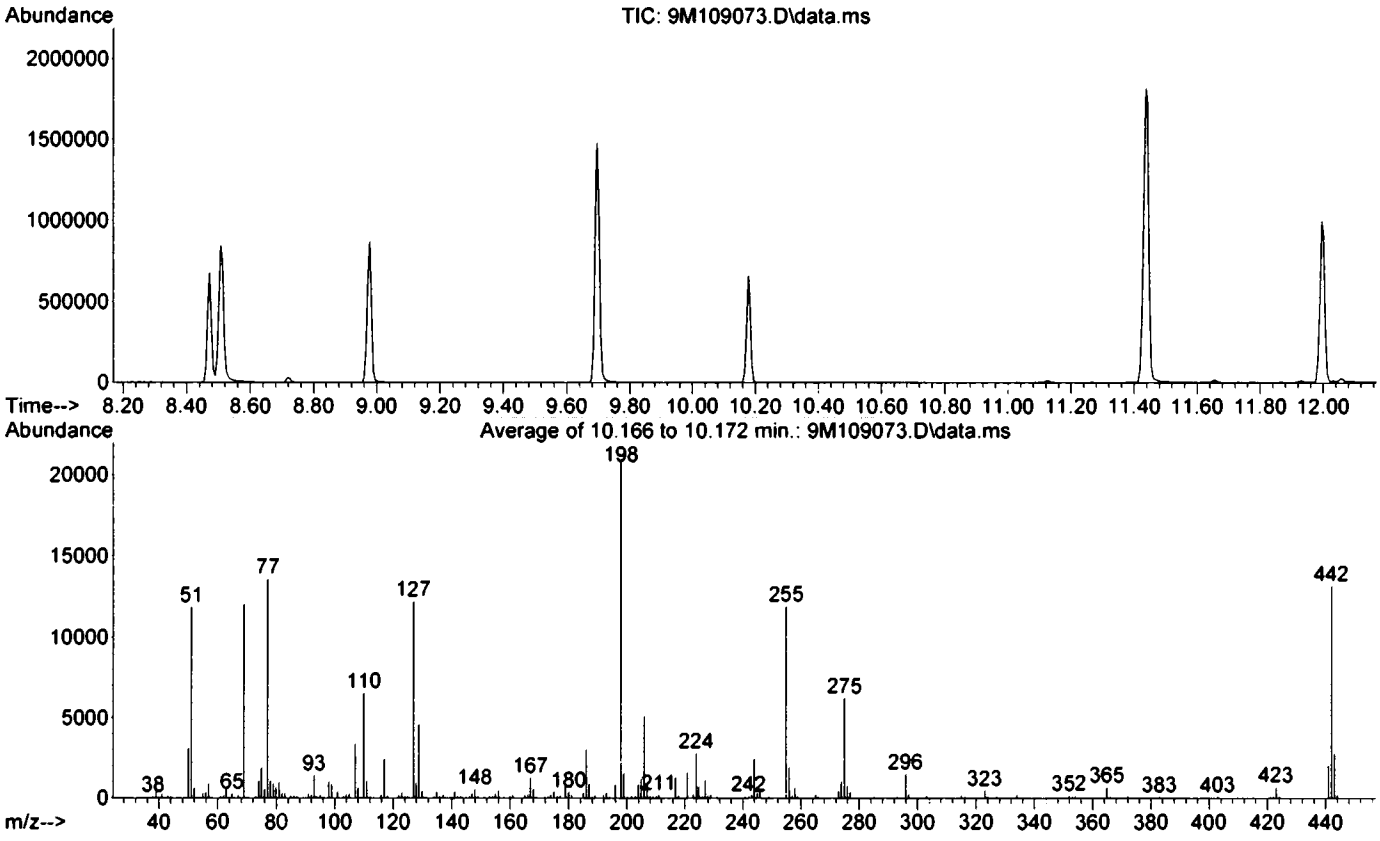
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	56.7	11887	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.4	12042	PASS
70	69	0.00	2	0.7	80	PASS
127	198	40	60	58.2	12210	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	20970	PASS
199	198	5	9	7.4	1542	PASS
275	198	10	30	29.6	6213	PASS
365	198	1	100	3.3	699	PASS
441	443	0.01	100	74.6	2076	PASS
442	198	40	100	62.9	13195	PASS
443	442	17	23	21.1	2782	PASS

Data File	Sample Number	Analysis Date:
9M109074.D	CAL BNA@50PPM	10/26/21 08:55
9M109075.D	WMB95369	10/26/21 09:18
9M109076.D	AD26741-002	10/26/21 09:42
9M109077.D	AD26741-003	10/26/21 10:05
9M109078.D	AD26741-004	10/26/21 10:28
9M109079.D	AD26741-006	10/26/21 10:51
9M109080.D	AD26771-005	10/26/21 11:14
9M109081.D	AD26771-014	10/26/21 11:38
9M109082.D	AD26771-015	10/26/21 12:01
9M109083.D	AD26771-016	10/26/21 12:24
9M109084.D	AD26741-002(3X)	10/26/21 12:47
9M109085.D	AD26741-006(5X)	10/26/21 13:11
9M109086.D	AD26823-001	10/26/21 13:34
9M109087.D	AD26807-001	10/26/21 13:57
9M109088.D	AD26765-001	10/26/21 14:20
9M109089.D	AD26765-001(MS)	10/26/21 14:43
9M109090.D	SMB95380	10/26/21 15:07
9M109091.D	AD26765-001(MSD	10/26/21 15:30
9M109092.D	AD26651-009	10/26/21 15:53
9M109093.D	AD26692-004	10/26/21 16:16
9M109094.D	AD26692-006	10/26/21 16:39
9M109095.D	AD26768-001	10/26/21 17:03
9M109096.D	AD26770-001(5X)	10/26/21 17:26
9M109097.D	AD26669-001(5X)	10/26/21 17:49
9M109098.D	AD26764-003(3X)	10/26/21 18:12
9M109099.D	AD26778-002(3X)	10/26/21 18:35
9M109100.D	AD26778-004(3X)	10/26/21 18:58
9M109101.D	AD26778-006(3X)	10/26/21 19:22
9M109102.D	AD26715-001	10/26/21 19:45
9M109103.D	AD26715-002	10/26/21 20:08
9M109104.D	AD26602-004(5X)	10/26/21 20:31
9M109105.D	AD26654-004	10/26/21 20:54

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-26-21\
Data File : 9M109073.D
Acq On : 26 Oct 2021 8:32
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1013.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Oct 13 12:40:21 2021



Spectrum Information: Average of 10.166 to 10.172 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.7	11887	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.4	12042	PASS
70	69	0.00	2	0.7	80	PASS
127	198	40	60	58.2	12210	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	20970	PASS
199	198	5	9	7.4	1542	PASS
275	198	10	30	29.6	6213	PASS
365	198	1	100	3.3	699	PASS
441	443	0.01	100	74.6	2076	PASS
442	198	40	100	62.9	13195	PASS
443	442	17	23	21.1	2782	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M117399.D
Analysis Date: 10/26/21 08:35
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.002 to 10.002 min

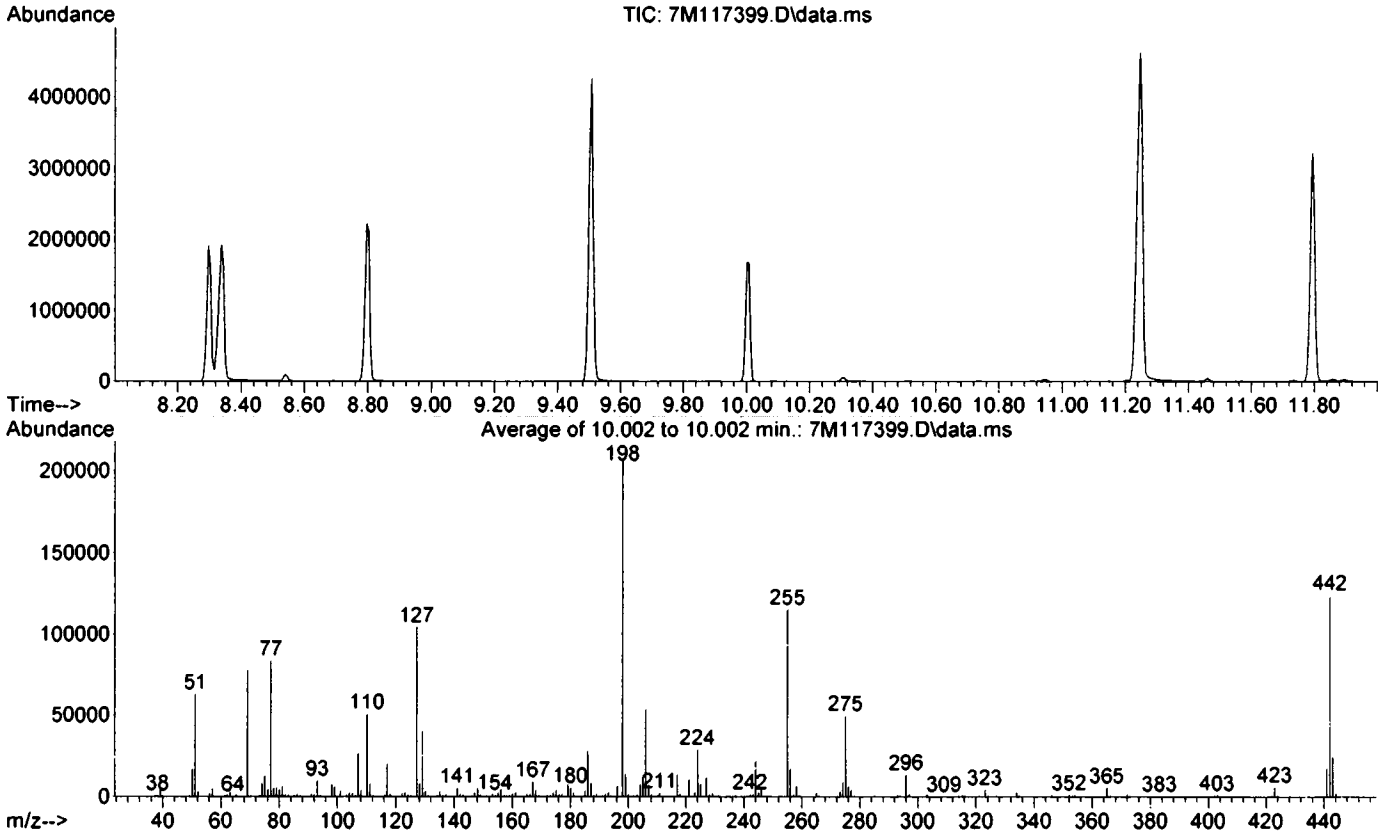
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.4	63056	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.4	77720	PASS
70	69	0.00	2	0.7	512	PASS
127	198	40	60	50.4	104568	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	207616	PASS
199	198	5	9	6.7	13967	PASS
275	198	10	30	24.0	49920	PASS
365	198	1	100	2.6	5423	PASS
441	443	0.01	100	71.8	17816	PASS
442	198	40	100	60.1	124704	PASS
443	442	17	23	19.9	24816	PASS

Data File	Sample Number	Analysis Date:
7M117400.D	CAL BNA@50PPM	10/26/21 09:00
7M117401.D	WMB95369(MS)	10/26/21 09:24
7M117402.D	WMB95369	10/26/21 09:48
7M117403.D	AD26757-001	10/26/21 10:12
7M117404.D	AD26757-002	10/26/21 10:36
7M117405.D	AD26757-003	10/26/21 11:00
7M117406.D	AD26421-001(T)	10/26/21 11:24
7M117407.D	AD26421-001(T)(M	10/26/21 11:49
7M117408.D	AD26421-001(T)(M	10/26/21 12:13
7M117409.D	AD26541-002(T)	10/26/21 12:37
7M117410.D	AD26757-003(3X)	10/26/21 13:01
7M117411.D	EF-SPLP V-359711	10/26/21 13:25
7M117412.D	EF-SPLP V-359711	10/26/21 13:49
7M117413.D	WMB95370	10/26/21 14:13
7M117414.D	AD26774-001	10/26/21 14:37
7M117415.D	AD26741-006(10X)	10/26/21 15:01
7M117416.D	AD26743-001	10/26/21 15:25
7M117417.D	AD26763-001	10/26/21 15:49
7M117418.D	AD26635-002	10/26/21 16:14
7M117419.D	AD26635-002(MS)	10/26/21 16:38
7M117420.D	AD26635-002(MSD	10/26/21 17:02
7M117421.D	AD26835-001	10/26/21 17:26
7M117422.D	AD26835-002	10/26/21 17:50
7M117423.D	SMB95380	10/26/21 18:14

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-26-21\
Data File : 7M117399.D
Acq On : 26 Oct 2021 8:35
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1019.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Oct 19 14:07:31 2021



Spectrum Information: Average of 10.002 to 10.002 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.4	63056	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.4	77720	PASS
70	69	0.00	2	0.7	512	PASS
127	198	40	60	50.4	104568	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	207616	PASS
199	198	5	9	6.7	13967	PASS
275	198	10	30	24.0	49920	PASS
365	198	1	100	2.6	5423	PASS
441	443	0.01	100	71.8	17816	PASS
442	198	40	100	60.1	124704	PASS
443	442	17	23	19.9	24816	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 5M118279.D
Instrument: GCMS 5 **Analysis Date:** 10/26/21 10:56
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.957 to 9.968 min

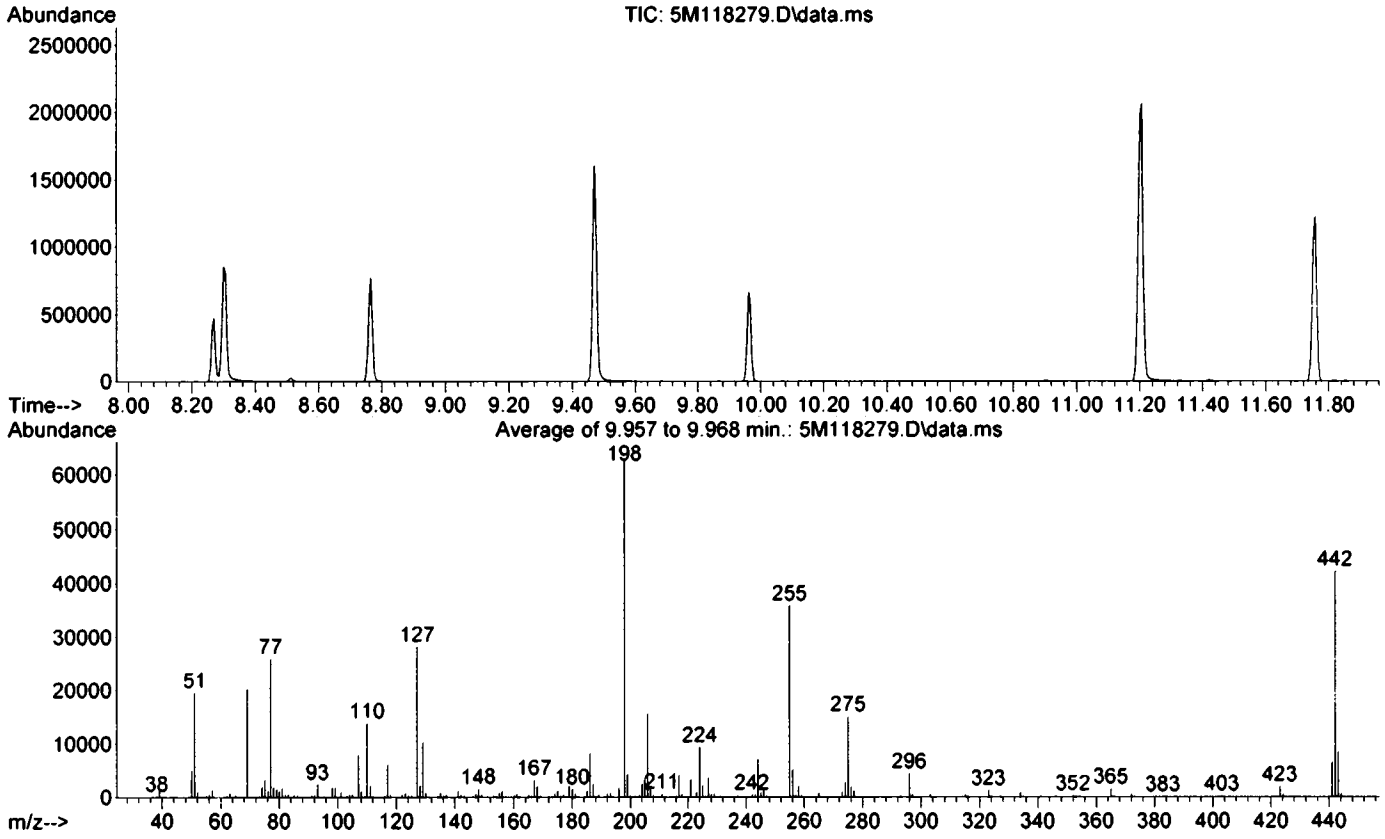
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.2	19638	PASS
68	69	0.00	2	0.9	186	PASS
69	198	0.00	100	32.2	20320	PASS
70	69	0.00	2	0.3	53	PASS
127	198	40	60	44.8	28253	PASS
197	198	0.00	1	0.2	140	PASS
198	198	100	100	100.0	63029	PASS
199	198	5	9	6.9	4345	PASS
275	198	10	30	24.0	15155	PASS
365	198	1	100	2.6	1630	PASS
441	443	0.01	100	76.9	6596	PASS
442	198	40	100	67.1	42275	PASS
443	442	17	23	20.3	8577	PASS

Data File	Sample Number	Analysis Date:
5M118280.D	CAL BNA@50PPM	10/26/21 11:19
5M118281.D	OMB95381(MS)	10/26/21 13:10
5M118282.D	OMB95381	10/26/21 13:34
5M118283.D	26741-006(10X)	10/26/21 13:57
5M118284.D	SMB95380(MS)	10/26/21 14:51
5M118285.D	AD26577-001	10/26/21 15:14
5M118286.D	SMB95380	10/26/21 15:37

Data Path : G:\GcMsData\2021\GCMS_5\Data\10-26-21\
Data File : 5M118279.D
Acq On : 26 Oct 2021 10:56
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1013.M
Title : @GCMS_5,mg,625,8270
Last Update : Wed Oct 13 13:26:27 2021



Spectrum Information: Average of 9.957 to 9.968 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.2	19638	PASS
68	69	0.00	2	0.9	186	PASS
69	198	0.00	100	32.2	20320	PASS
70	69	0.00	2	0.3	53	PASS
127	198	40	60	44.8	28253	PASS
197	198	0.00	1	0.2	140	PASS
198	198	100	100	100.0	63029	PASS
199	198	5	9	6.9	4345	PASS
275	198	10	30	24.0	15155	PASS
365	198	1	100	2.6	1630	PASS
441	443	0.01	100	76.9	6596	PASS
442	198	40	100	67.1	42275	PASS
443	442	17	23	20.3	8577	PASS

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9844	0.9335	1.2197	1.0389	0.9882	0.9963	0.9891	1.0915	1.0658	1.03	2.60	0.995	0.998	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0198	1.9571	1.7976	2.1199	2.1724	2.1764	2.2225	2.4168	----	2.11	3.05	0.995	0.999	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4619	1.5305	1.3691	1.5127	1.5019	1.5268	1.5346	1.6693	----	1.51	3.00	0.996	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.4646	1.5021	1.3446	1.5066	1.5569	1.6098	1.6047	1.7644	----	1.54	4.59	0.995	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.2569	1.3547	1.1993	1.3102	1.2976	1.3046	1.3465	1.4258	----	1.31	5.42	0.997	1.00	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.4285	2.6063	2.3300	2.5218	2.4553	2.5121	2.5343	2.7651	2.5925	2.53	5.51	0.997	0.999	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.5610	0.6179	0.5456	0.5992	0.5825	0.5889	0.6052	0.6653	----	0.596	5.56	0.994	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.6300	1.8882	1.6321	1.7170	1.6663	1.6707	1.7069	1.8450	1.8064	1.73	5.57	0.996	0.999	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	1.8261	1.9022	1.7103	1.8934	1.9141	1.9393	2.0317	2.1762	----	1.92	5.47	0.995	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.2448	2.3790	2.1196	2.3142	2.2779	2.3298	2.4010	2.5826	----	2.33	5.49	0.997	1.00	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.6722	1.7904	1.5730	1.7926	1.7490	1.7535	1.7858	1.9388	----	1.76	5.61	0.997	0.999	6.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.5298	1.8118	1.5142	1.5931	1.5174	1.4638	1.5280	1.5615	----	1.56	5.65	0.999	0.999	6.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	1.8442	2.2220	1.8588	1.9888	1.9086	1.9290	1.9624	2.1264	----	1.98	5.74	0.996	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5448	1.8035	1.5104	1.5930	1.5837	1.6298	1.6574	1.8317	----	1.64	5.81	0.994	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4652	1.6488	1.4444	1.4864	1.4811	1.5413	1.5294	1.7348	----	1.54	5.93	0.992	0.997	6.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8591	0.7885	0.7618	0.8624	0.9071	0.9605	0.9467	1.0706	----	0.895	5.91	0.992	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3808	1.5942	1.3949	1.3966	1.3481	1.3672	1.3653	1.5275	----	1.42	6.02	0.997	0.998	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2047	1.1919	1.1534	1.2075	1.2382	1.2865	1.3015	1.4489	1.0969	1.24	5.99	0.994	0.999	8.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8698	1.8249	1.7324	1.8340	1.8424	1.7720	1.7202	1.8582	----	1.81	6.12	0.999	0.999	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5617	0.6087	0.5323	0.5770	0.5812	0.6089	0.6045	0.6845	----	0.595	6.21	0.992	0.998	7.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9119	0.8232	0.8118	0.8877	0.8800	0.8370	0.8154	0.8880	0.7362	0.844	6.12	0.997	0.997	6.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3615	1.2114	1.1905	1.3114	1.3665	1.3445	1.2984	1.3743	1.0959	1.28	6.12	0.999	0.999	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1429	0.1211	0.1215	0.1407	0.1510	0.1616	0.1602	0.1727	----	0.147	6.24	0.996	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3197	0.2959	0.2885	0.3187	0.3272	0.3391	0.3403	0.3739	----	0.325	6.26	0.995	0.999	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6141	0.5388	0.5456	0.6133	0.6445	0.6667	0.6552	0.7127	----	0.624	6.45	0.997	0.999	9.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1714	0.1248	0.1377	0.1645	0.1837	0.2001	0.1997	0.2151	----	0.175	6.51	0.995	0.999	18	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3405	0.3097	0.3032	0.3381	0.3396	0.3608	0.3646	0.3917	0.2727	0.336	6.53	0.996	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1388	----	0.0432	0.1001	0.1979	0.2300	0.2330	0.2573	----	0.172	6.59	0.992	0.998	46		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3829	0.3931	0.3643	0.3930	0.4000	0.4201	0.4140	0.4558	----	0.403	6.61	0.995	0.998	6.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2914	0.2370	0.2563	0.2860	0.3054	0.3212	0.3205	0.3559	0.2033	0.286	6.69	0.995	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3298	0.3510	0.3169	0.3360	0.3488	0.3618	0.3676	0.3983	----	0.351	6.76	0.995	0.999	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0225	1.1077	0.9711	1.0288	1.0399	1.0757	1.0704	1.1597	1.2131	1.08	6.82	0.997	0.999	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4164	0.3806	0.3830	0.4166	0.4261	0.4331	0.4286	0.4547	0.3469	0.410	6.85	0.998	0.999	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1960	0.2038	0.1813	0.2013	0.2002	0.2110	0.2123	0.2297	----	0.204	6.90	0.996	0.999	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.0936	0.0530	0.0702	0.0932	0.0985	0.1048	0.1048	0.1271	----	0.0932	7.13	0.981	0.994	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2661	0.2097	0.2330	0.2715	0.2827	0.3002	0.3038	0.3261	----	0.274	7.21	0.996	1.00	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7162	0.6980	0.6510	0.6906	0.7355	0.7585	0.7533	0.8054	----	0.726	7.35	0.998	0.999	6.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6584	0.6651	0.6004	0.6657	0.6524	0.7098	0.6986	0.7731	----	0.678	7.43	0.994	0.998	7.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6811	0.6816	0.6213	0.6731	0.6903	0.7299	0.7217	0.7838	----	0.698	7.35	0.997	0.999	6.9		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8118	0.8574	0.7719	0.8364	0.8565	0.8952	0.9042	0.9776	----	0.864	7.72	0.996	0.999	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6554	0.6844	0.5956	0.6821	0.7044	0.7476	0.7491	0.8005	----	0.702	7.48	0.997	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101601 0080

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3832	0.2764	0.2826	0.3402	0.4086	0.4490	0.4512	0.4959	----	0.386	7.47	0.994	0.999	21	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3938	0.3047	0.3318	0.3935	0.4381	0.4745	0.4729	0.5101	----	0.415	7.57	0.996	0.999	17	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4233	0.3335	0.3658	0.4221	0.4732	0.4914	0.4921	0.5291	----	0.441	7.60	0.996	0.999	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3372	1.4952	1.3010	1.4124	1.4315	1.4578	1.4925	1.6357	----	1.45	7.64	0.995	0.999	7.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2315	1.3035	1.1890	1.3011	1.3207	1.3762	1.3863	1.4882	----	1.32	7.75	0.996	0.999	7.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0608	1.0544	0.9477	1.0434	1.1246	1.1206	1.1040	1.1574	----	1.08	8.03	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0608	1.0544	0.9477	1.0434	1.1246	1.1206	1.1040	1.1574	----	1.08	8.03	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8500	0.9126	0.7953	0.8794	0.9121	0.9645	0.9684	1.0310	----	0.914	7.81	0.997	1.00	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.3593	0.2570	0.2916	0.3466	0.3801	0.3900	0.3960	0.4184	----	0.355	7.83	0.998	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4863	0.4363	0.4378	0.4884	0.5231	0.5335	0.5279	0.5557	----	0.499	8.01	0.999	0.999	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8805	1.8740	1.7505	1.9037	1.9522	2.0456	2.0728	2.2158	----	1.96	8.10	0.997	1.00	7.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3312	1.3469	1.2708	1.4090	1.4216	1.4775	1.5060	1.6054	----	1.42	7.97	0.996	1.00	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3241	0.2242	0.2637	0.3139	0.3450	0.3432	0.3449	0.3587	----	0.315	8.03	0.999	1.00	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2390	1.3202	1.1601	1.2523	1.3127	1.3519	1.3822	1.4616	----	1.31	8.26	0.997	1.00	7.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3298	0.2330	0.2844	0.3399	0.3627	0.3773	0.3745	0.4030	----	0.338	8.18	0.997	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1219	----	0.0481	0.0788	0.1436	0.1732	0.1798	0.1980	----	0.135	8.27	0.988	0.999	41	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7437	1.8400	1.6407	1.8096	1.8335	1.9051	1.9083	2.0790	2.0215	1.86	8.41	0.996	0.999	7.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3789	0.2182	0.3017	0.3766	0.4269	0.4567	0.4644	0.5096	----	0.392	8.39	0.994	0.999	24	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2063	0.0773	0.1428	0.1779	0.2312	0.2437	0.2437	0.2687	----	0.199	8.30	0.995	0.999	32	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Qua	0.3458	0.2673	0.3023	0.3616	0.3874	0.4278	0.4332	0.4742	----	0.375	8.51	0.993	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4487	1.4023	1.2792	1.4268	1.5416	1.6144	1.6087	1.7245	----	1.51	8.73	0.997	0.999	9.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7197	0.6954	0.6420	0.7217	0.7793	0.8200	0.8221	0.8747	----	0.759	8.72	0.997	0.999	10	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2533	1.2376	1.1600	1.3075	1.3799	1.4330	1.4390	1.5582	----	1.35	8.60	0.996	0.999	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3663	0.2241	0.2894	0.3583	0.3892	0.4116	0.4068	0.4429	----	0.361	8.74	0.996	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.3687	0.2923	0.3040	0.3722	0.4095	0.4327	0.4421	0.4859	----	0.388	9.36	0.993	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0985	----	0.0544	0.0762	0.1144	0.1330	0.1344	0.1480	----	0.108	8.77	0.991	0.999	31	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6250	0.5974	0.5487	0.6391	0.6608	0.7110	0.6886	0.7686	----	0.655	8.83	0.995	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1017	0.0702	0.0806	0.0989	0.1101	0.1211	0.1199	0.1325	----	0.104	8.96	0.994	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7280	0.6175	0.5933	0.6653	0.7477	0.6958	0.7547	0.8286	----	0.704	8.87	0.995	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2076	0.1998	0.1888	0.2159	0.2336	0.2490	0.2473	0.2812	----	0.228	9.21	0.991	0.998	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2269	0.2453	0.2147	0.2417	0.2450	0.2560	0.2586	0.2871	----	0.247	9.27	0.993	0.999	8.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3653	0.3138	0.3124	0.3615	0.3743	0.3756	0.3647	0.3873	----	0.357	9.53	0.999	0.999	7.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1258	----	0.0813	0.1133	0.1472	0.1618	0.1662	0.1852	----	0.140	9.47	0.992	0.999	25	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0850	1.1585	1.0059	1.1304	1.1426	1.2263	1.1929	1.3106	----	1.16	9.71	0.996	0.999	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1319	1.0208	0.9840	1.1163	1.1784	1.2487	1.2424	1.3389	----	1.16	9.76	0.997	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9990	0.8857	0.8826	1.0211	1.0703	1.1398	1.1004	1.2164	----	1.04	9.94	0.995	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1276	0.7946	0.8687	1.1001	1.2349	1.3038	1.2905	1.4022	0.6491	1.09	10.31	0.996	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1956	0.9992	0.9973	1.1804	1.2974	1.3797	1.3624	1.4863	----	1.24	11.04	0.996	0.999	14	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3470	1.2999	1.2330	1.3759	1.3863	1.4420	1.4303	1.5373	----	1.38	11.30	0.997	0.999	6.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7386	0.3616	0.5121	0.6989	0.8002	0.8244	0.8168	0.8633	----	0.702	11.20	0.997	0.999	25		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6034	0.6413	0.5667	0.6599	0.6574	0.6951	0.7065	0.7905	----	0.665	11.48	0.991	0.998	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101601 0081

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2559	0.2457	0.2286	0.2652	0.2730	0.2972	0.3056	0.3350	----	0.276	11.42	0.992	0.999	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4369	0.3323	0.3630	0.4553	0.4881	0.4983	0.5144	0.5468	----	0.454	11.82	0.996	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4880	0.2881	0.3628	0.4841	0.5505	0.5807	0.5829	-----	----	0.477	12.08	0.998	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0		
4,4'-DDT	1	0	Qua	0.4261	0.2617	0.3150	0.3905	0.4583	0.4719	0.4753	0.4993	----	0.412	12.17	0.998	1.00	21		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4330	0.2632	0.3330	0.4466	0.5004	0.5156	0.5162	0.5593	----	0.446	12.70	0.996	0.999	23	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2442	1.2581	1.1237	1.3095	1.3238	1.4130	1.4024	1.5465	----	1.33	12.72	0.994	0.999	9.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.3258	1.3406	1.1729	1.3328	1.3591	1.3220	1.3293	1.4342	----	1.33	12.77	0.997	0.998	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7886	0.4104	0.5574	0.7349	0.8430	0.8356	0.8163	0.8761	----	0.733	12.77	0.998	0.999	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.0694	0.4703	0.7008	1.0146	1.2477	1.3525	1.3965	1.4923	----	1.09	13.51	0.995	1.00	33	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1058	0.9993	0.9808	1.1920	1.2411	1.3236	1.3983	1.4559	----	1.21	13.93	0.993	1.00	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1656	1.0856	1.0514	1.2025	1.2044	1.2868	1.3181	1.4507	----	1.22	13.96	0.993	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Qua	1.0755	0.9138	0.9348	1.0553	1.1714	1.2552	1.2924	1.4057	----	1.14	14.29	0.993	1.00	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Qua	1.1943	1.1099	1.0096	1.2084	1.3006	1.4175	1.5088	1.6207	----	1.30	15.65	0.990	1.00	16	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0081	0.9143	0.8520	0.9998	1.0926	1.1935	1.2590	1.3507	----	1.08	15.67	0.993	1.00	16	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9995	0.9960	0.9077	1.0117	1.0614	1.1559	1.1874	1.2792	----	1.07	16.03	0.994	1.00	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 11.9
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101601 0082

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9967	1.2587	0.9821	1.0511	1.0153	1.0078	1.0099	1.0990	1.0847	1.06	2.84	0.998	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.1791	2.0556	1.8617	2.2586	2.2815	2.2742	2.2705	2.4575	-----	2.20	3.29	0.997	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5572	1.5979	1.4786	1.6325	1.6047	1.6170	1.6167	1.7398	-----	1.61	3.24	0.998	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.4221	2.5841	2.2341	2.4896	2.5154	2.5095	2.5256	2.6466	-----	2.49	4.77	0.999	1.00	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0211	2.2026	1.9797	2.1751	2.1512	2.1183	2.1124	2.2106	-----	2.12	5.60	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.8157	4.2856	3.7093	4.1026	3.9736	3.8771	3.8815	4.0444	4.5998	4.03	5.69	0.999	0.999	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8633	0.9564	0.8304	0.9149	0.8978	0.8910	0.8906	0.9426	-----	0.898	5.73	0.998	0.999	4.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4637	2.8983	2.4493	2.6227	2.5602	2.5214	2.5125	2.6315	2.9209	2.62	5.74	0.999	0.999	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9016	3.0275	2.7234	3.0537	3.0375	2.9786	2.9559	3.1087	-----	2.97	5.64	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.5176	4.0101	3.4491	3.7201	3.6421	3.5766	3.5502	3.7101	-----	3.65	5.65	0.999	0.999	4.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.6895	2.7936	2.5896	2.8354	2.7964	2.7785	2.7484	2.8730	-----	2.76	5.78	0.999	0.999	3.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.3069	2.8347	2.3718	2.4694	2.3978	2.3390	2.3015	2.3993	-----	2.43	5.82	0.999	0.999	7.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0576	3.4863	2.9330	3.2223	3.0602	2.9992	2.9263	3.0939	-----	3.10	5.92	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5601	1.8255	1.5759	1.6233	1.5845	1.5758	1.5519	1.7277	-----	1.63	5.98	0.995	0.997	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4744	1.7771	1.5216	1.5356	1.4876	1.4909	1.4640	1.6198	-----	1.55	6.11	0.995	0.998	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8832	0.9251	0.8568	0.8971	0.9273	0.9321	0.9374	1.0272	-----	0.923	6.08	0.997	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3833	1.8059	1.5704	1.5107	1.4879	1.4835	1.4923	1.6377	-----	1.55	6.19	0.995	0.998	8.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2096	1.2825	1.2067	1.2604	1.2563	1.2664	1.2540	1.3867	1.2718	1.27	6.16	0.995	0.998	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7481	2.0040	1.8292	1.8339	1.7809	1.7407	1.6852	1.8094	-----	1.80	6.30	0.998	0.998	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5416	0.6131	0.5354	0.5617	0.5654	0.5708	0.5684	0.6328	-----	0.574	6.38	0.997	0.999	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8436	0.9419	0.8753	0.9068	0.8861	0.8701	0.8528	0.9199	0.8777	0.886	6.29	0.998	0.999	3.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2621	1.3278	1.2726	1.3267	1.3182	1.2892	1.2678	1.3354	1.2477	1.29	6.28	0.999	0.999	2.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1538	0.1347	0.1391	0.1555	0.1595	0.1635	0.1625	0.1818	-----	0.156	6.42	0.994	0.998	9.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3246	0.3403	0.3274	0.3417	0.3385	0.3397	0.3381	0.3732	-----	0.340	6.43	0.995	0.998	4.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6066	0.6527	0.5993	0.6496	0.6287	0.6311	0.6280	0.6962	-----	0.637	6.61	0.995	0.998	4.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1807	0.1433	0.1556	0.1821	0.1902	0.1955	0.1944	0.2180	-----	0.183	6.68	0.996	0.999	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3252	0.3241	0.3126	0.3391	0.3350	0.3366	0.3334	0.3704	0.2924	0.330	6.70	0.995	0.998	6.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1725	-----	0.0463	0.1327	0.2149	0.2448	0.2464	0.2676	-----	0.189	6.75	0.994	0.999	41		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3610	0.4386	0.3697	0.3851	0.3786	0.3794	0.3739	0.4109	-----	0.387	6.77	0.996	0.998	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2891	0.2593	0.2611	0.2958	0.2915	0.2974	0.2933	0.3231	0.2484	0.284	6.86	0.996	0.998	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3247	0.3833	0.3100	0.3313	0.3208	0.3239	0.3212	0.3589	-----	0.334	6.92	0.994	0.997	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0511	1.2703	1.0722	1.1160	1.0432	1.0377	1.0061	1.0912	1.2970	1.11	7.00	0.998	0.998	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4130	0.4122	0.4021	0.4307	0.4186	0.4093	0.4009	0.4393	0.4191	0.416	7.02	0.997	0.998	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1972	0.2209	0.1798	0.1990	0.1923	0.1994	0.1960	0.2186	-----	0.200	7.08	0.994	0.998	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1017	0.0632	0.0804	0.1023	0.1053	0.1077	0.1070	0.1157	-----	0.0979	7.30	0.997	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2721	0.2416	0.2470	0.2776	0.2828	0.2892	0.2866	0.3166	-----	0.277	7.39	0.995	0.998	8.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6990	0.7632	0.6886	0.7388	0.6943	0.6896	0.6774	0.7375	-----	0.711	7.54	0.997	0.998	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6465	0.7381	0.6446	0.6957	0.6508	0.6430	0.6240	0.6890	-----	0.666	7.54	0.996	0.997	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6729	0.7506	0.6634	0.7147	0.6677	0.6641	0.6504	0.7101	-----	0.687	7.61	0.996	0.998	5.0		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8277	0.9459	0.8090	0.8669	0.8143	0.8074	0.7883	0.8659	-----	0.841	7.91	0.996	0.998	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6844	0.7366	0.6378	0.7025	0.6743	0.6935	0.6879	0.7492	-----	0.696	7.67	0.996	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.021
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.4007	0.2657	0.3066	0.3782	0.4226	0.4455	0.4536	0.5036	-----	0.397	7.65	0.993	0.999	20	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4299	0.3414	0.3574	0.4241	0.4740	0.4495	0.4414	0.4886	-----	0.426	7.75	0.995	0.997	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4394	0.3518	0.3885	0.4595	0.4632	0.4761	0.4623	0.5255	-----	0.446	7.78	0.996	0.998	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4698	1.6369	1.4268	1.5270	1.4593	1.4966	1.4740	1.6110	-----	1.51	7.82	0.998	0.999	4.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2671	1.4237	1.2376	1.3444	1.2681	1.2832	1.2750	1.3912	-----	1.31	7.94	0.998	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	-----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	-----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.9032	0.9895	0.8537	0.9412	0.8983	0.9172	0.8985	0.9859	-----	0.923	8.00	0.996	0.998	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3744	0.3185	0.3439	0.3879	0.4004	0.4124	0.4117	0.4479	-----	0.387	8.01	0.996	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4963	0.4977	0.4772	0.5247	0.5072	0.5130	0.5061	0.5447	-----	0.508	8.20	0.997	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9640	2.0683	1.8862	2.0434	1.9736	1.9770	1.9309	2.0753	-----	1.99	8.30	0.999	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3903	1.5091	1.3612	1.4778	1.4037	1.4308	1.4169	1.5340	-----	1.44	8.15	0.997	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3269	0.2527	0.2927	0.3223	0.3313	0.3379	0.3265	0.3459	-----	0.317	8.22	0.999	0.999	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2392	1.4339	1.2186	1.3071	1.2403	1.2377	1.2217	1.3054	-----	1.28	8.45	0.998	0.999	5.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3672	0.3019	0.3253	0.3765	0.3799	0.3842	0.3808	0.4136	-----	0.366	8.37	0.997	0.999	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1501	-----	0.0603	0.1087	0.1823	0.2026	0.2039	0.2266	-----	0.162	8.47	0.993	0.999	37	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8016	2.1079	1.7999	1.9020	1.8069	1.8031	1.7743	1.9321	2.1281	1.90	8.61	0.997	0.998	7.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4226	0.2885	0.3468	0.4208	0.4346	0.4509	0.4488	0.4931	-----	0.413	8.58	0.995	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2269	0.0949	0.1590	0.2316	0.2516	0.2547	0.2657	0.2894	-----	0.222	8.49	0.994	0.999	29	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.4203	0.3175	0.3515	0.4123	0.4201	0.4335	0.4306	0.4751	-----	0.408	8.71	0.995	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4449	1.5231	1.4006	1.5278	1.4390	1.4559	1.4289	1.5292	-----	1.47	8.94	0.998	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7572	0.7985	0.7008	0.7730	0.7507	0.7742	0.7717	0.8455	-----	0.771	8.92	0.997	0.999	5.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2901	1.3979	1.2646	1.3963	1.3568	1.3801	1.3724	1.4937	-----	1.37	8.80	0.996	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3849	0.2747	0.3370	0.3990	0.4018	0.4164	0.4137	0.4532	-----	0.385	8.94	0.996	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4011	0.3140	0.3366	0.4064	0.4136	0.4292	0.4269	0.4669	-----	0.399	9.57	0.996	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1149	-----	0.0705	0.1018	0.1271	0.1371	0.1377	0.1537	-----	0.120	8.97	0.993	0.998	23	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6296	0.6578	0.6057	0.6583	0.6343	0.6451	0.6335	0.6984	-----	0.645	9.04	0.998	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1430	0.0955	0.1162	0.1404	0.1442	0.1518	0.1524	0.1725	-----	0.140	9.17	0.992	0.998	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6138	0.6610	0.6437	0.6858	0.6643	0.6754	0.7300	0.7984	-----	0.684	9.08	0.992	0.999	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2568	0.2451	0.2268	0.2551	0.2549	0.2651	0.2632	0.2968	-----	0.258	9.42	0.993	0.997	7.7	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.3034	0.3461	0.2825	0.3059	0.3031	0.3125	0.3100	0.3504	-----	0.314	9.49	0.992	0.997	7.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3278	0.3038	0.3266	0.3598	0.3670	0.3723	0.3667	0.3970	-----	0.353	9.75	0.997	0.999	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1758	-----	0.1190	0.1582	0.1866	0.1990	0.1988	0.2268	-----	0.181	9.69	0.994	0.998	19	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0638	1.2727	1.0615	1.1336	1.0731	1.0896	1.0736	1.1758	-----	1.12	9.93	0.996	0.998	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0941	1.1477	1.0479	1.1410	1.0993	1.1145	1.0989	1.2120	-----	1.12	9.99	0.995	0.998	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0007	0.9976	0.9545	1.0480	1.0121	1.0318	1.0095	1.1129	-----	1.02	10.15	0.996	0.998	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.0802	0.8391	0.9430	1.1213	1.1757	1.2129	1.1822	1.3027	0.7512	1.07	10.53	0.996	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2144	1.0931	1.0689	1.2256	1.2238	1.2524	1.2332	1.3695	-----	1.21	11.27	0.995	0.998	7.8	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1675	1.1970	1.1118	1.2226	1.1714	1.1709	1.1802	1.2715	-----	1.19	11.54	0.997	0.999	3.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7001	0.4142	0.5311	0.6788	0.7382	0.7488	0.7469	0.8057	-----	0.671	11.42	0.998	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6793	0.6836	0.6206	0.6942	0.6973	0.7137	0.7170	0.8041	-----	0.701	11.72	0.993	0.998	7.3		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags	*Note:* Avg Rsd: 9.021
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2430	0.2497	0.2248	0.2476	0.2556	0.2676	0.2769	0.3047	----	0.259	11.65	0.993	0.999	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4260	0.3255	0.3548	0.4248	0.4470	0.4620	0.4640	0.5143	----	0.427	12.05	0.996	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4179	0.2749	0.3473	0.4234	0.4695	0.4925	0.4924	0.5439	----	0.433	12.31	0.994	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3885	0.2638	0.3222	0.3789	0.4145	0.4338	0.4378	0.4851	----	0.391	12.41	0.994	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4990	0.3055	0.3843	0.4713	0.5188	0.5327	0.5292	0.5751	----	0.477	12.94	0.997	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1554	1.2399	1.0905	1.2144	1.1901	1.2150	1.2161	1.3230	----	1.21	12.97	0.996	0.999	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1522	1.4067	1.1114	1.1984	1.1657	1.1347	1.1706	1.2679	----	1.20	13.01	0.996	0.999	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.5743	0.4037	0.5274	0.6162	0.6754	0.6985	0.6940	0.7546	----	0.618	12.99	0.995	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	0.7872	0.3805	0.5873	0.7748	0.9384	1.0004	1.0169	1.1208	----	0.826	13.74	0.993	0.999	30	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0767	0.9118	0.9248	1.0569	1.1321	1.2148	1.1895	1.2903	----	1.10	14.18	0.996	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0226	1.1479	1.0612	1.1833	1.1191	1.1061	1.1487	1.2874	----	1.13	14.21	0.991	0.998	7.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0343	0.9073	0.9447	1.0755	1.0754	1.1166	1.1401	1.2623	----	1.07	14.56	0.993	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1785	1.0481	1.0485	1.2356	1.3053	1.3771	1.4123	1.5753	----	1.27	16.02	0.991	0.999	14	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0072	0.8777	0.9080	1.0620	1.1181	1.1715	1.1943	1.3241	----	1.08	16.05	0.993	0.999	14	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9373	0.9621	0.9140	1.0455	1.0757	1.1254	1.1454	1.2683	----	1.06	16.43	0.992	0.999	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.021
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.9291	1.2357	1.0186	1.0157	0.9851	1.0209	0.9767	1.0667	1.4455	1.08	2.60	0.997	0.998	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0417	2.1718	1.9339	2.1760	2.2214	2.3178	2.2137	2.3199	-----	2.17	3.07	0.998	0.999	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4812	1.6218	1.4617	1.5623	1.5740	1.6171	1.5494	1.6446	-----	1.56	3.02	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3863	2.7422	2.4328	2.5908	2.6544	2.7337	2.5942	2.6923	-----	2.60	4.61	0.997	0.998	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0224	2.4152	2.1213	2.2826	2.1595	2.0541	1.8145	1.7142	-----	2.07	5.44	0.991	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.7045	4.5774	3.9187	4.1852	4.0682	4.0227	3.8135	3.8646	4.7069	4.10	5.53	0.999	0.999	8.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9039	1.1389	0.9243	1.0039	0.9961	0.9896	0.9449	0.9714	-----	0.984	5.57	0.999	0.999	7.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.3864	3.0419	2.5385	2.7084	2.5792	2.6173	2.4447	2.3760	2.9714	2.63	5.59	0.997	0.999	9.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.8327	3.3018	2.9622	3.1339	3.1679	3.1757	2.9892	3.0492	-----	3.08	5.49	0.998	0.999	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4146	3.9962	3.5402	3.8535	3.7346	3.7018	3.4938	3.7325	-----	3.68	5.50	0.998	0.998	5.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.7079	3.2079	2.7681	3.0752	3.0518	3.0259	2.8622	2.9132	-----	2.95	5.63	0.999	0.999	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.9009	2.4579	2.0538	2.1485	2.0680	1.9939	1.8715	1.9318	-----	2.05	5.67	0.998	0.998	9.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0862	3.8008	3.2142	3.5303	3.4402	3.3586	3.1509	3.2187	-----	3.35	5.76	0.998	0.998	7.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5108	1.9364	1.5804	1.6226	1.5484	1.5432	1.5188	1.6926	-----	1.62	5.82	0.994	0.997	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4490	1.7139	1.5126	1.5470	1.4714	1.4578	1.4421	1.5670	-----	1.52	5.95	0.997	0.998	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8775	0.9661	0.8801	0.9107	0.8804	0.8799	0.8792	0.9561	-----	0.904	5.92	0.998	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.0196	1.2423	1.0577	1.0800	0.9873	0.9734	0.9546	1.0495	-----	1.05	6.04	0.996	0.997	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1679	1.3384	1.1632	1.2504	1.1711	1.1693	1.1581	1.2681	1.3662	1.23	6.01	0.996	0.998	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7527	2.2158	1.8668	1.8949	1.7072	1.6923	1.6435	1.8018	-----	1.82	6.14	0.996	0.997	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5554	0.6777	0.5705	0.5967	0.5603	0.5677	0.5618	0.6204	-----	0.589	6.22	0.995	0.998	7.2	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8412	1.0449	0.9172	0.9094	0.8088	0.7916	0.7876	0.8621	0.9967	0.884	6.14	0.998	0.998	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2210	1.3933	1.2285	1.2932	1.2060	1.1940	1.1842	1.2829	1.3540	1.26	6.13	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1548	0.1644	0.1487	0.1569	0.1579	0.1629	0.1572	0.1728	-----	0.160	6.26	0.998	0.999	4.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3159	0.3794	0.3191	0.3292	0.3159	0.3159	0.3061	0.3312	-----	0.327	6.28	0.997	0.998	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6038	0.7106	0.6214	0.6301	0.6006	0.6043	0.5974	0.6506	-----	0.627	6.47	0.996	0.998	6.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1919	0.1721	0.1747	0.1887	0.1980	0.2037	0.1966	0.2124	-----	0.192	6.52	0.998	0.999	7.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3399	0.3840	0.3369	0.3526	0.3396	0.3385	0.3340	0.3629	0.3784	0.352	6.55	0.997	0.998	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2151	-----	0.1404	0.2033	0.2675	0.2733	0.2797	0.2778	-----	0.237	6.62	0.998	0.998	22		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3534	0.4215	0.3647	0.3730	0.3534	0.3543	0.3462	0.3775	-----	0.368	6.63	0.997	0.998	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2909	0.2902	0.2827	0.3015	0.2998	0.3062	0.3013	0.3271	0.2852	0.298	6.71	0.997	0.999	4.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3207	0.3695	0.3190	0.3356	0.3332	0.3405	0.3302	0.3626	-----	0.339	6.78	0.996	0.998	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9608	1.2495	1.0442	1.0623	0.9946	0.9646	0.9851	1.0351	1.2585	1.06	6.84	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4030	0.4712	0.4083	0.4185	0.4020	0.3964	0.5042	0.3975	0.4662	0.430	6.88	0.988	0.988	9.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1869	0.2330	0.1879	0.1995	0.1965	0.2016	0.1993	0.2200	-----	0.203	6.93	0.995	0.998	7.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1013	0.1069	0.1064	0.1062	0.1031	0.1147	0.1139	0.1236	-----	0.110	7.17	0.995	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2875	0.2926	0.2878	0.2987	0.2960	0.2970	0.2930	0.3221	-----	0.297	7.25	0.996	0.998	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7025	0.8370	0.7128	0.7434	0.7163	0.7272	0.7104	0.7711	-----	0.740	7.39	0.997	0.998	6.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6481	0.7943	0.6754	0.6985	0.6650	0.6611	0.6498	0.7069	-----	0.687	7.46	0.997	0.998	7.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6739	0.8157	0.6940	0.7209	0.6906	0.6942	0.6802	0.7390	-----	0.714	7.46	0.997	0.998	6.5		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8349	1.0169	0.8677	0.8906	0.8627	0.8534	0.8345	0.9114	-----	0.884	7.76	0.997	0.998	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6027	0.6906	0.6050	0.6489	0.6371	0.6526	0.6485	0.6934	-----	0.647	7.52	0.997	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.895

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101601 0086

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3670	0.2912	0.3144	0.3539	0.3912	0.4060	0.4114	0.4390	----	0.372	7.51	0.997	1.00	14	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4217	0.4031	0.4019	0.4359	0.4784	0.4746	0.4708	0.4989	----	0.448	7.60	0.998	0.999	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3878	0.4241	0.4246	0.4400	0.4696	0.4849	0.4882	0.5207	----	0.455	7.64	0.996	0.999	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4069	1.7169	1.4226	1.5172	1.4461	1.4698	1.4455	1.5395	----	1.50	7.68	0.999	0.999	6.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1982	1.4478	1.2382	1.3108	1.2300	1.2489	1.2392	1.3052	----	1.28	7.79	0.998	0.999	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9773	1.2316	1.0144	1.0697	1.0002	1.0113	0.9963	1.0534	----	1.04	8.07	0.998	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9773	1.2316	1.0144	1.0697	1.0002	1.0113	0.9963	1.0534	----	1.04	8.07	0.999	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8536	1.0282	0.8692	0.9247	0.8810	0.8869	0.8871	0.9395	----	0.909	7.85	0.998	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3564	0.3662	0.3573	0.3718	0.3590	0.3583	0.3555	0.3764	----	0.363	7.86	0.998	0.999	2.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4854	0.5090	0.4985	0.5176	0.4956	0.5005	0.4918	0.5142	----	0.502	8.05	0.999	0.999	2.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9149	2.2761	2.0017	2.1031	1.9475	1.9438	1.9195	2.0359	----	2.02	8.15	0.999	0.999	6.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.4199	1.7259	1.4773	1.5425	1.4608	1.4707	1.4648	1.5549	----	1.51	8.02	0.998	0.999	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3281	0.3627	0.3295	0.3530	0.3329	0.3351	0.3355	0.3482	----	0.341	8.07	0.999	1.00	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1926	1.4933	1.2324	1.3064	1.2292	1.2351	1.2351	1.3207	----	1.28	8.30	0.997	0.999	7.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3596	0.3738	0.3592	0.3840	0.3759	0.3686	0.3630	0.3825	----	0.371	8.22	0.999	0.999	2.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1709	----	0.1063	0.1457	0.1914	0.2041	0.2068	0.2218	----	0.178	8.31	0.997	0.999	23	0.20	a 50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7664	2.1187	1.8250	1.8970	1.8194	1.8009	1.7685	1.8797	2.2401	1.90	8.46	0.999	0.999	8.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4338	0.3938	0.4218	0.4595	0.4592	0.4721	0.4763	0.5086	----	0.453	8.43	0.997	0.999	7.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2285	0.1307	0.1991	0.2272	0.2411	0.2426	0.2469	0.2643	----	0.223	8.35	0.998	1.00	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3769	0.3902	0.3604	0.3928	0.4086	0.4142	0.4232	0.4481	----	0.402	8.56	0.997	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4233	1.7264	1.4744	1.5400	1.4686	1.4909	1.4697	1.5553	----	1.52	8.78	0.998	0.999	6.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7098	0.8307	0.7129	0.7571	0.7602	0.7691	0.7728	0.8220	----	0.767	8.77	0.998	0.999	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4439	1.7642	1.4819	1.5654	1.4937	1.4977	1.4884	1.5752	----	1.54	8.65	0.998	0.999	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3827	0.3363	0.3767	0.4026	0.4041	0.4019	0.4015	0.4271	----	0.392	8.79	0.998	0.999	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4247	0.4787	0.4160	0.4572	0.4484	0.4546	0.4574	0.4832	----	0.453	9.41	0.998	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1197	----	0.1001	0.1151	0.1302	0.1362	0.1377	0.1475	----	0.127	8.81	0.997	0.999	13	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6085	0.7106	0.6224	0.6675	0.6301	0.6455	0.6402	0.6842	----	0.651	8.88	0.998	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1064	0.0975	0.0989	0.1083	0.1150	0.1220	0.1239	0.1343	----	0.113	9.01	0.995	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6618	0.7196	0.6324	0.6650	0.6614	0.6588	0.6411	0.6770	----	0.665	8.92	0.999	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2132	0.2441	0.2095	0.2266	0.2309	0.2388	0.2416	0.2603	----	0.233	9.26	0.996	0.999	7.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2266	0.2692	0.2241	0.2408	0.2425	0.2560	0.2563	0.2773	----	0.249	9.31	0.994	0.999	7.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3105	0.3525	0.3164	0.3223	0.3049	0.3015	0.3009	0.3212	----	0.316	9.59	0.998	0.999	5.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1465	----	0.1275	0.1444	0.1614	0.1696	0.1709	0.1880	----	0.158	9.51	0.995	0.999	13	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0569	1.3226	1.0839	1.1508	1.0750	1.0811	1.0747	1.1539	----	1.12	9.76	0.999	0.999	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0852	1.3089	1.1317	1.1904	1.1124	1.1218	1.1157	1.1831	----	1.16	9.81	0.998	0.999	6.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9700	1.1316	0.9819	1.0462	1.0058	1.0123	1.0085	1.0757	----	1.03	9.98	0.998	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2274	1.3361	1.2252	1.3058	1.2685	1.2761	1.2674	1.3350	1.3302	1.29	10.36	0.999	1.00	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1794	1.3372	1.1545	1.2654	1.2279	1.2419	1.2395	1.3159	----	1.25	11.08	0.998	0.999	5.0	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3425	1.5795	1.3532	1.4564	1.3660	1.4120	1.3773	1.4796	----	1.42	11.35	0.997	0.999	5.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.8637	0.5998	0.7949	0.8728	0.8392	0.8118	0.7419	0.7427	----	0.783	11.24	0.995	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6896	0.7610	0.6634	0.7203	0.7117	0.7405	0.7274	0.8094	----	0.728	11.53	0.994	0.998	6.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags	*Note:* Avg Rsd: 6.895
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101601 0087

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2756	0.3171	0.2635	0.2916	0.2873	0.3095	0.3076	0.3362	-----	0.299	11.47	0.995	0.999	7.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4820	0.5019	0.4565	0.5117	0.5037	0.5259	0.5205	0.5631	-----	0.508	11.86	0.997	0.999	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.6120	0.6600	0.5883	0.6450	0.6257	0.6534	0.6368	0.6876	-----	0.639	12.12	0.997	0.999	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4420	0.3967	0.4032	0.4494	0.4539	0.4863	0.4764	0.5123	-----	0.453	12.22	0.997	0.999	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.5102	0.4727	0.4651	0.5274	0.5214	0.5286	0.5205	0.5432	-----	0.511	12.75	0.999	1.00	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2223	1.4895	1.2087	1.3304	1.2592	1.3064	1.3113	1.3974	-----	1.32	12.77	0.997	0.999	7.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1988	1.4765	1.1922	1.3003	1.2121	1.2746	1.2456	1.3214	-----	1.28	12.81	0.998	0.999	7.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8419	0.9000	0.8254	0.8867	0.8458	0.8765	0.8485	0.8998	-----	0.866	12.82	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.3490	1.3506	1.2859	1.4289	1.3837	1.4394	1.4057	1.5206	-----	1.40	13.59	0.998	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1129	1.3328	1.1065	1.1876	1.1656	1.2585	1.2462	1.3528	-----	1.22	14.01	0.996	0.999	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0653	1.2673	1.0045	1.1518	1.1620	1.1882	1.0676	1.1696	-----	1.13	14.04	0.996	0.996	7.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1083	1.2291	1.0599	1.1667	1.1452	1.1973	1.1826	1.3015	-----	1.17	14.37	0.995	0.998	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1874	1.3040	1.1362	1.2352	1.2431	1.3064	1.2992	1.4177	-----	1.27	15.78	0.996	0.999	6.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0061	1.0903	0.9675	1.0481	1.0473	1.1124	1.1097	1.2139	-----	1.07	15.81	0.995	0.999	7.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9984	1.1454	0.9675	1.0393	1.0259	1.0676	1.0556	1.1438	-----	1.06	16.17	0.996	0.999	6.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.895
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109074.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2021 8:55:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.80	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.84	46.05	50	**		1.056	0.973	7.90	
Pyridine	1	0		3.31	48.18	50	**		2.205	2.125	3.63	
N-Nitrosodimethylamine	1	0		3.25	49.95	50	**		1.606	1.604	0.10	
2-Fluorophenol	1	0	S	4.78	46.63	50	**		2.491	2.323	6.75	
Benzaldehyde	1	0		5.60	48.15	50	20	0.01	2.121	2.043	3.71	
Aniline	1	0		5.69	47.10	50	**		4.032	3.798	5.80	
Pentachloroethane	1	0		5.73	44.64	50	**	0.05	0.898	0.802	10.73	
bis(2-Chloroethyl)ether	1	0		5.74	46.34	50	20	0.7	2.620	2.429	7.31	
Phenol-d5	1	0	S	5.65	48.83	50	**		2.973	2.904	2.34	
Phenol	1	0		5.66	48.17	50	20	0.8	3.647	3.514	3.65	
2-Chlorophenol	1	0		5.79	45.83	50	20	0.8	2.763	2.533	8.33	
N-Decane	1	0		5.82	53.48	50	**	0.05	2.428	2.596	6.95	
1,3-Dichlorobenzene	1	0		5.92	43.69	50	**		3.097	2.706	12.62	
1,4-Dichlorobenzene-d4	1	0	I	5.97	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.98	46.70	50	20		1.628	1.521	6.60	
1,2-Dichlorobenzene	1	0		6.11	46.50	50	**		1.546	1.438	7.00	
Benzyl alcohol	1	0		6.08	51.08	50	**		0.923	0.943	2.16	
bis(2-chloroisopropyl)ether	1	0		6.18	59.26	50	20	0.01	1.547	1.833	18.52	
2-Methylphenol	1	0		6.17	51.83	50	20	0.7	1.266	1.312	3.66	
Acetophenone	1	0		6.30	50.43	50	20	0.01	1.804	1.820	0.87	
Hexachloroethane	1	0		6.38	47.46	50	20	0.3	0.574	0.545	5.08	
N-Nitroso-di-n-propylamine	1	0		6.29	55.81	50	20	0.5	0.886	0.989	11.62	
3&4-Methylphenol	1	0		6.29	53.22	50	20		1.294	1.377	6.43	
Naphthalene-d8	1	0	I	6.98	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.42	25.17	25	**		0.156	0.157	0.67	
Nitrobenzene	1	0		6.43	52.53	50	20	0.2	0.340	0.358	5.07	
Isophorone	1	0		6.61	52.75	50	20	0.4	0.637	0.672	5.49	
2-Nitrophenol	1	0		6.68	51.28	50	20	0.1	0.183	0.187	2.57	
2,4-Dimethylphenol	1	0		6.70	51.80	50	20	0.2	0.330	0.342	3.59	
Benzoic Acid	1	0		6.75	48.82	50	**		0.189	0.173	2.36	
bis(2-Chloroethoxy)methane	1	0		6.77	51.05	50	20	0.3	0.387	0.395	2.11	
2,4-Dichlorophenol	1	0		6.86	49.94	50	20	0.2	0.284	0.284	0.11	
1,2,4-Trichlorobenzene	1	0		6.93	46.19	50	**		0.334	0.309	7.61	
Naphthalene	1	0		7.00	47.28	50	20	0.7	1.109	1.049	5.44	
4-Chloroaniline	1	0		7.03	49.97	50	20	0.01	0.416	0.416	0.06	
Hexachlorobutadiene	1	0		7.08	45.02	50	20	0.01	0.200	0.180	9.96	
Caprolactam	1	0		7.30	54.09	50	20	0.01	0.098	0.106	8.18	
4-Chloro-3-methylphenol	1	0		7.40	51.59	50	20	0.2	0.277	0.286	3.17	
2-Methylnaphthalene	1	0		7.54	49.07	50	**	0.4	0.711	0.698	1.85	
1-Methylnaphthalene	1	0		7.62	48.77	50	**	0.4	0.667	0.650	2.45	
Methylnaphthalenes	1	0		7.54	97.78	50	**			1.343	95.57	
1,1'-Biphenyl	1	0		7.91	48.30	50	20	0.01	0.841	0.812	3.39	
Acenaphthene-d10	1	0	I	8.43	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.67	45.66	50	20	0.01	0.696	0.635	8.68	
Hexachlorocyclopentadiene	1	0		7.65	34.96	50	20	0.05	0.397	0.266	30.08	C1
2,4,6-Trichlorophenol	1	0		7.76	47.82	50	20	0.2	0.426	0.407	4.37	
2,4,5-Trichlorophenol	1	0		7.79	48.12	50	20	0.2	0.446	0.429	3.76	
2-Fluorobiphenyl	1	0	S	7.82	23.59	25	**		1.513	1.427	5.65	
2-Chloronaphthalene	1	0		7.94	46.86	50	20	0.8	1.311	1.229	6.29	
1,4-Dimethylnaphthalene	1	0		8.22	48.19	50	**		1.037	1.000	3.62	
Dimethylnaphthalenes	1	0		8.22	48.19	50	20			1.000	3.62	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109074.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2021 8:55:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.00	47.69	50	**		0.923	0.881	4.62	
2-Nitroaniline	1	0		8.02	56.63	50	20	0.01	0.387	0.439	13.26	
Coumarin	1	0		8.21	48.44		**		0.508			
Acenaphthylene	1	0		8.31	48.85	50	20	0.9	1.990	1.944	2.30	
Dimethylphthalate	1	0		8.16	47.16	50	20	0.01	1.441	1.359	5.67	
2,6-Dinitrotoluene	1	0		8.22	50.66	50	20	0.2	0.317	0.321	1.32	
Acenaphthene	1	0		8.46	48.50	50	20	0.9	1.276	1.237	3.00	
3-Nitroaniline	1	0		8.38	50.31	50	20	0.01	0.366	0.368	0.62	
2,4-Dinitrophenol	1	0		8.47	48.70	50	20	0.2	0.162	0.147	2.60	
Dibenzofuran	1	0		8.62	46.41	50	20	0.8	1.895	1.759	7.17	
2,4-Dinitrotoluene	1	0		8.59	50.44	50	20	0.2	0.413	0.415	0.87	
4-Nitrophenol	1	0		8.51	55.17	50	20	0.01	0.222	0.252	10.34	
2,3,4,6-Tetrachlorophenol	1	0		8.72	47.70	50	20	0.01	0.408	0.389	4.59	
Fluorene	1	0		8.94	48.14	50	20	0.9	1.469	1.414	3.72	
4-Chlorophenyl-phenylether	1	0		8.93	46.44	50	20	0.4	0.772	0.717	7.12	
Diethylphthalate	1	0		8.80	47.57	50	20	0.01	1.369	1.302	4.86	
4-Nitroaniline	1	0		8.95	52.54	50	20	0.01	0.385	0.401	5.09	
Atrazine	1	0		9.58	49.32	50	20	0.01	0.399	0.394	1.36	
Phenanthrene-d10	1	0	I	9.91	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.98	49.30	50	20	0.01	0.120	0.115	1.39	
n-Nitrosodiphenylamine	1	0		9.04	49.74	50	20	0.01	0.645	0.642	0.51	
2,4,6-Tribromophenol	1	0	S	9.18	55.25	50	**		0.140	0.150	10.50	
1,2-Diphenylhydrazine	1	0		9.09	58.21	50	**		0.684	0.796	16.42	
4-Bromophenyl-phenylether	1	0		9.42	48.25	50	20	0.1	0.258	0.249	3.51	
Hexachlorobenzene	1	0		9.50	47.86	50	20	0.1	0.314	0.301	4.28	
N-Octadecane	1	0		9.75	63.67	50	**	0.05	0.353	0.449	27.34	
Pentachlorophenol	1	0		9.70	46.46	50	20	0.05	0.181	0.157	7.07	
Phenanthrene	1	0		9.94	47.91	50	20	0.7	1.118	1.071	4.18	
Anthracene	1	0		10.00	49.20	50	20	0.7	1.119	1.102	1.60	
Carbazole	1	0		10.17	50.23	50	20	0.01	1.021	1.026	0.45	
Di-n-butylphthalate	1	0		10.53	52.81	50	20	0.01	1.068	1.167	5.62	
Fluoranthene	1	0		11.28	49.77	50	20	0.6	1.210	1.205	0.46	
Chrysene-d12	1	0	I	12.99	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.55	47.47	50	20	0.6	1.187	1.127	5.06	
Benzidine	1	0		11.44	45.13	50	**		0.671	0.618	9.73	
Terphenyl-d14	1	0	S	11.72	23.41	25	**		0.701	0.657	6.34	
4,4'-DDE	1	0		11.65	45.91		**		0.259			
4,4'-DDD	1	0		12.06	49.60		**		0.427			
Butylbenzylphthalate	1	0		12.31	53.27	50	20	0.01	0.433	0.463	6.54	
4,4'-DDT	1	0		12.42	48.48		**		0.391			
3,3'-Dichlorobenzidine	1	0		12.94	50.91	50	20	0.01	0.477	0.499	1.82	
Benzo[a]anthracene	1	0		12.98	47.58	50	20	0.8	1.206	1.147	4.84	
Chrysene	1	0		13.02	46.28	50	20	0.7	1.201	1.112	7.45	
bis(2-Ethylhexyl)phthalate	1	0		12.99	54.34	50	20	0.01	0.618	0.680	8.67	
Perylene-d12	1	0	I	14.64	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.75	56.34	50	20	0.01	0.826	0.969	12.67	
Benzo[b]fluoranthene	1	0		14.20	48.19	50	20	0.7	1.100	1.060	3.62	
Benzo[k]fluoranthene	1	0		14.23	41.09	50	20	0.7	1.135	0.932	17.82	
Benzo[a]pyrene	1	0		14.58	47.45	50	20	0.7	1.070	1.015	5.11	
Indeno[1,2,3-cd]pyrene	1	0		16.05	47.64	50	20	0.5	1.273	1.213	4.71	
Dibenzo[a,h]anthracene	1	0		16.08	47.89	50	20	0.4	1.083	1.037	4.21	
Benzo[g,h,i]perylene	1	0		16.47	46.74	50	20	0.5	1.059	0.990	6.52	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109074.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2021 8:55:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.687	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.037	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117400.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/26/2021 9:00:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	46.28	50	**		1.077	0.997	7.45	
Pyridine	1	0		3.06	47.50	50	**		2.175	2.066	5.00	
N-Nitrosodimethylamine	1	0		3.02	50.18	50	**		1.564	1.570	0.35	
2-Fluorophenol	1	0	S	4.61	52.30	50	**		2.603	2.723	4.60	
Benzaldehyde	1	0		5.44	53.51	50	20	0.01	2.073	2.218	7.01	
Aniline	1	0		5.53	50.63	50	**		4.096	4.147	1.26	
Pentachloroethane	1	0		5.57	51.45	50	**	0.05	0.984	1.013	2.90	
bis(2-Chloroethyl)ether	1	0		5.59	50.23	50	20	0.7	2.629	2.641	0.46	
Phenol-d5	1	0	S	5.49	53.02	50	**		3.077	3.263	6.04	
Phenol	1	0		5.50	51.75	50	20	0.8	3.683	3.813	3.50	
2-Chlorophenol	1	0		5.63	52.85	50	20	0.8	2.952	3.120	5.70	
N-Decane	1	0		5.67	49.59	50	**	0.05	2.053	2.036	0.83	
1,3-Dichlorobenzene	1	0		5.76	52.62	50	**		3.350	3.526	5.25	
1,4-Dichlorobenzene-d4	1	0	I	5.81	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.82	46.76	50	20		1.619	1.514	6.47	
1,2-Dichlorobenzene	1	0		5.95	47.79	50	**		1.520	1.453	4.43	
Benzyl alcohol	1	0		5.92	48.06	50	**		0.904	0.869	3.87	
bis(2-chloroisopropyl)ether	1	0		6.03	46.51	50	20	0.01	1.046	0.973	6.99	
2-Methylphenol	1	0		6.01	47.21	50	20	0.7	1.228	1.159	5.59	
Acetophenone	1	0		6.14	47.45	50	20	0.01	1.822	1.729	5.10	
Hexachloroethane	1	0		6.22	46.49	50	20	0.3	0.589	0.547	7.02	
N-Nitroso-di-n-propylamine	1	0		6.14	45.59	50	20	0.5	0.884	0.806	8.81	
3&4-Methylphenol	1	0		6.13	48.43	50	20		1.262	1.222	3.13	
Naphthalene-d8	1	0	I	6.82	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.26	24.59	25	**		0.160	0.157	1.63	
Nitrobenzene	1	0		6.27	47.95	50	20	0.2	0.327	0.313	4.10	
Isophorone	1	0		6.46	47.71	50	20	0.4	0.627	0.599	4.58	
2-Nitrophenol	1	0		6.52	50.06	50	20	0.1	0.192	0.193	0.12	
2,4-Dimethylphenol	1	0		6.54	47.71	50	20	0.2	0.352	0.336	4.58	
Benzoic Acid	1	0		6.61	43.18	50	**		0.237	0.200	13.64	
bis(2-Chloroethoxy)methane	1	0		6.62	46.52	50	20	0.3	0.368	0.342	6.95	
2,4-Dichlorophenol	1	0		6.70	50.00	50	20	0.2	0.298	0.298	0.01	
1,2,4-Trichlorobenzene	1	0		6.77	47.88	50	**		0.339	0.325	4.24	
Naphthalene	1	0		6.84	46.61	50	20	0.7	1.062	0.990	6.79	
4-Chloroaniline	1	0		6.87	46.43	50	20	0.01	0.430	0.399	7.15	
Hexachlorobutadiene	1	0		6.92	47.98	50	20	0.01	0.203	0.195	4.03	
Caprolactam	1	0		7.15	46.53	50	20	0.01	0.110	0.102	6.94	
4-Chloro-3-methylphenol	1	0		7.23	48.66	50	20	0.2	0.297	0.289	2.68	
2-Methylnaphthalene	1	0		7.37	49.04	50	**	0.4	0.740	0.726	1.92	
1-Methylnaphthalene	1	0		7.45	48.70	50	**	0.4	0.687	0.670	2.60	
Methylnaphthalenes	1	0		7.37	97.73	50	**			1.395	95.46	
1,1'-Biphenyl	1	0		7.75	48.57	50	20	0.01	0.884	0.859	2.86	
Acenaphthene-d10	1	0	I	8.25	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.50	47.40	50	20	0.01	0.647	0.614	5.20	
Hexachlorocyclopentadiene	1	0		7.49	48.77	50	20	0.05	0.372	0.363	2.46	
2,4,6-Trichlorophenol	1	0		7.59	47.81	50	20	0.2	0.448	0.429	4.38	
2,4,5-Trichlorophenol	1	0		7.62	48.79	50	20	0.2	0.455	0.444	2.42	
2-Fluorobiphenyl	1	0	S	7.66	23.64	25	**		1.496	1.414	5.43	
2-Chloronaphthalene	1	0		7.77	47.35	50	20	0.8	1.277	1.210	5.29	
1,4-Dimethylnaphthalene	1	0		8.05	46.67	50	**		1.044	0.975	6.65	
Dimethylnaphthalenes	1	0		8.05	46.67	50	20			0.975	6.65	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117400.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/26/2021 9:00:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.83	47.49	50	**		0.909	0.863	5.01	
2-Nitroaniline	1	0		7.85	47.91	50	20	0.01	0.363	0.347	4.18	
Coumarin	1	0		8.03	48.37		**		0.502			
Acenaphthylene	1	0		8.13	47.31	50	20	0.9	2.018	1.909	5.39	
Dimethylphthalate	1	0		7.99	47.38	50	20	0.01	1.515	1.435	5.24	
2,6-Dinitrotoluene	1	0		8.05	48.21	50	20	0.2	0.341	0.328	3.58	
Acenaphthene	1	0		8.28	46.27	50	20	0.9	1.281	1.185	7.45	
3-Nitroaniline	1	0		8.20	48.63	50	20	0.01	0.371	0.361	2.74	
2,4-Dinitrophenol	1	0		8.29	49.96	50	20	0.2	0.178	0.178	0.08	
Dibenzofuran	1	0		8.43	46.69	50	20	0.8	1.902	1.776	6.61	
2,4-Dinitrotoluene	1	0		8.41	49.62	50	20	0.2	0.453	0.450	0.75	
4-Nitrophenol	1	0		8.32	50.08	50	20	0.01	0.223	0.227	0.16	
2,3,4,6-Tetrachlorophenol	1	0		8.54	48.36	50	20	0.01	0.402	0.389	3.28	
Fluorene	1	0		8.76	47.54	50	20	0.9	1.519	1.444	4.92	
4-Chlorophenyl-phenylether	1	0		8.75	47.46	50	20	0.4	0.767	0.728	5.08	
Diethylphthalate	1	0		8.63	46.53	50	20	0.01	1.539	1.432	6.93	
4-Nitroaniline	1	0		8.77	48.04	50	20	0.01	0.392	0.376	3.91	
Atrazine	1	0		9.40	47.59	50	20	0.01	0.453	0.431	4.82	
Phenanthrene-d10	1	0	I	9.71	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.79	49.52	50	20	0.01	0.127	0.125	0.97	
n-Nitrosodiphenylamine	1	0		8.86	47.39	50	20	0.01	0.651	0.617	5.21	
2,4,6-Tribromophenol	1	0	S	8.99	49.87	50	**		0.113	0.113	0.26	
1,2-Diphenylhydrazine	1	0		8.90	48.03	50	**		0.665	0.638	3.95	
4-Bromophenyl-phenylether	1	0		9.24	48.08	50	20	0.1	0.233	0.224	3.84	
Hexachlorobenzene	1	0		9.30	47.55	50	20	0.1	0.249	0.237	4.91	
N-Octadecane	1	0		9.57	46.05	50	**	0.05	0.316	0.291	7.89	
Pentachlorophenol	1	0		9.50	47.77	50	20	0.05	0.158	0.151	4.47	
Phenanthrene	1	0		9.74	46.89	50	20	0.7	1.125	1.055	6.22	
Anthracene	1	0		9.80	47.51	50	20	0.7	1.156	1.099	4.97	
Carbazole	1	0		9.97	47.22	50	20	0.01	1.029	0.972	5.56	
Di-n-butylphthalate	1	0		10.35	47.09	50	20	0.01	1.286	1.211	5.82	
Fluoranthene	1	0		11.08	48.00	50	20	0.6	1.245	1.195	4.01	
Chrysene-d12	1	0	I	12.78	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.34	47.33	50	20	0.6	1.421	1.345	5.33	
Benzidine	1	0		11.24	48.79	50	**		0.783	0.764	2.41	
Terphenyl-d14	1	0	S	11.52	23.75	25	**		0.728	0.692	4.98	
4,4'-DDE	1	0		11.46	46.32		**		0.299			
4,4'-DDD	1	0		11.86	48.15		**		0.508			
Butylbenzylphthalate	1	0		12.12	46.79	50	20	0.01	0.639	0.598	6.41	
4,4'-DDT	1	0		12.22	50.05		**		0.453			
3,3'-Dichlorobenzidine	1	0		12.74	49.57	50	20	0.01	0.511	0.507	0.85	
Benzo[a]anthracene	1	0		12.76	46.09	50	20	0.8	1.316	1.213	7.82	
Chrysene	1	0		12.81	46.21	50	20	0.7	1.278	1.181	7.59	
bis(2-Ethylhexyl)phthalate	1	0		12.82	47.12	50	20	0.01	0.866	0.816	5.76	
Perylene-d12	1	0	I	14.41	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	48.76	50	20	0.01	1.396	1.361	2.48	
Benzo[b]fluoranthene	1	0		13.99	46.51	50	20	0.7	1.220	1.135	6.97	
Benzo[k]fluoranthene	1	0		14.03	48.46	50	20	0.7	1.135	1.100	3.08	
Benzo[a]pyrene	1	0		14.35	47.97	50	20	0.7	1.174	1.126	4.05	
Indeno[1,2,3-cd]pyrene	1	0		15.76	46.06	50	20	0.5	1.266	1.166	7.89	
Dibenzo[a,h]anthracene	1	0		15.78	46.36	50	20	0.4	1.074	0.996	7.27	
Benzo[g,h,i]perylene	1	0		16.15	45.52	50	20	0.5	1.055	0.961	8.96	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117400.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/26/2021 9:00:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.714	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.044	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118280.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/26/2021 11:19:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.57	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	48.98	50	**		1.034	1.013	2.05	
Pyridine	1	0		3.05	44.76	50	**		2.110	1.889	10.48	
N-Nitrosodimethylamine	1	0		3.00	47.22	50	**		1.513	1.429	5.55	
2-Fluorophenol	1	0	S	4.59	48.75	50	**		1.544	1.506	2.50	
Benzaldehyde	1	0		5.42	47.35	50	20	0.01	1.312	1.242	5.30	
Aniline	1	0		5.51	48.13	50	**		2.527	2.433	3.74	
Pentachloroethane	1	0		5.55	48.75	50	**	0.05	0.596	0.581	2.50	
bis(2-Chloroethyl)ether	1	0		5.57	48.36	50	20	0.7	1.729	1.673	3.28	
Phenol-d5	1	0	S	5.47	48.22	50	**		1.924	1.856	3.57	
Phenol	1	0		5.49	48.59	50	20	0.8	2.331	2.265	2.82	
2-Chlorophenol	1	0		5.61	49.62	50	20	0.8	1.757	1.744	0.76	
N-Decane	1	0		5.65	47.87	50	**	0.05	1.565	1.498	4.27	
1,3-Dichlorobenzene	1	0		5.74	48.12	50	**		1.980	1.905	3.77	
1,4-Dichlorobenzene-d4	1	0	I	5.80	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.81	47.58	50	20		1.644	1.565	4.83	
1,2-Dichlorobenzene	1	0		5.93	46.56	50	**		1.541	1.435	6.89	
Benzyl alcohol	1	0		5.91	48.89	50	**		0.895	0.875	2.21	
bis(2-chloroisopropyl)ether	1	0		6.02	46.96	50	20	0.01	1.422	1.336	6.07	
2-Methylphenol	1	0		5.99	49.43	50	20	0.7	1.237	1.223	1.13	
Acetophenone	1	0		6.12	50.99	50	20	0.01	1.807	1.842	1.97	
Hexachloroethane	1	0		6.21	47.37	50	20	0.3	0.595	0.564	5.25	
N-Nitroso-di-n-propylamine	1	0		6.12	52.87	50	20	0.5	0.844	0.892	5.74	
3&4-Methylphenol	1	0		6.12	52.41	50	20		1.284	1.346	4.81	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	24.06	25	**		0.147	0.141	3.75	
Nitrobenzene	1	0		6.26	47.96	50	20	0.2	0.325	0.312	4.08	
Isophorone	1	0		6.45	49.19	50	20	0.4	0.624	0.614	1.63	
2-Nitrophenol	1	0		6.51	48.80	50	20	0.1	0.175	0.168	2.41	
2,4-Dimethylphenol	1	0		6.53	49.69	50	20	0.2	0.336	0.334	0.62	
Benzoic Acid	1	0		6.59	18.61	50	**		0.172	0.058	62.77	
bis(2-Chloroethoxy)methane	1	0		6.61	47.21	50	20	0.3	0.403	0.380	5.58	
2,4-Dichlorophenol	1	0		6.69	50.44	50	20	0.2	0.286	0.289	0.88	
1,2,4-Trichlorobenzene	1	0		6.76	47.60	50	**		0.351	0.334	4.81	
Naphthalene	1	0		6.82	46.58	50	20	0.7	1.077	1.003	6.85	
4-Chloroaniline	1	0		6.85	48.57	50	20	0.01	0.410	0.398	2.85	
Hexachlorobutadiene	1	0		6.90	47.53	50	20	0.01	0.204	0.194	4.94	
Caprolactam	1	0		7.13	51.86	50	20	0.01	0.093	0.090	3.71	
4-Chloro-3-methylphenol	1	0		7.22	48.48	50	20	0.2	0.274	0.266	3.04	
2-Methylnaphthalene	1	0		7.35	48.21	50	**	0.4	0.726	0.700	3.57	
1-Methylnaphthalene	1	0		7.43	47.92	50	**	0.4	0.678	0.650	4.17	
Methylnaphthalenes	1	0		7.35	96.32	50	**			1.344	92.65	
1,1'-Biphenyl	1	0		7.72	47.49	50	20	0.01	0.864	0.821	5.02	
Acenaphthene-d10	1	0	I	8.23	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.48	47.34	50	20	0.01	0.702	0.665	5.32	
Hexachlorocyclopentadiene	1	0		7.47	48.71	50	20	0.05	0.386	0.373	2.59	
2,4,6-Trichlorophenol	1	0		7.57	48.88	50	20	0.2	0.415	0.406	2.25	
2,4,5-Trichlorophenol	1	0		7.60	48.28	50	20	0.2	0.441	0.426	3.45	
2-Fluorobiphenyl	1	0	S	7.64	23.63	25	**		1.445	1.366	5.48	
2-Chloronaphthalene	1	0		7.75	47.29	50	20	0.8	1.325	1.253	5.42	
1,4-Dimethylnaphthalene	1	0		8.02	48.29	50	**		1.077	1.040	3.42	
Dimethylnaphthalenes	1	0		8.02	48.29	50	20			1.040	3.42	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118280.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/26/2021 11:19:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.81	46.49	50	**		0.914	0.850	7.01	
2-Nitroaniline	1	0		7.83	49.39	50	20	0.01	0.355	0.357	1.21	
Coumarin	1	0		8.01	48.34		**		0.499			
Acenaphthylene	1	0		8.10	46.82	50	20	0.9	1.962	1.837	6.36	
Dimethylphthalate	1	0		7.97	47.95	50	20	0.01	1.421	1.363	4.09	
2,6-Dinitrotoluene	1	0		8.03	50.35	50	20	0.2	0.315	0.317	0.70	
Acenaphthene	1	0		8.25	45.75	50	20	0.9	1.310	1.199	8.51	
3-Nitroaniline	1	0		8.18	48.65	50	20	0.01	0.338	0.329	2.71	
2,4-Dinitrophenol	1	0		8.27	45.98	50	20	0.2	0.135	0.109	8.04	
Dibenzofuran	1	0		8.41	45.83	50	20	0.8	1.865	1.709	8.34	
2,4-Dinitrotoluene	1	0		8.39	47.90	50	20	0.2	0.392	0.376	4.19	
4-Nitrophenol	1	0		8.30	47.60	50	20	0.01	0.199	0.201	4.81	
2,3,4,6-Tetrachlorophenol	1	0		8.51	48.74	50	20	0.01	0.375	0.353	2.52	
Fluorene	1	0		8.73	47.31	50	20	0.9	1.506	1.425	5.38	
4-Chlorophenyl-phenylether	1	0		8.72	48.08	50	20	0.4	0.759	0.730	3.85	
Diethylphthalate	1	0		8.60	46.79	50	20	0.01	1.346	1.260	6.41	
4-Nitroaniline	1	0		8.74	47.80	50	20	0.01	0.361	0.352	4.40	
Atrazine	1	0		9.36	49.90	50	20	0.01	0.388	0.375	0.21	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	49.60	50	20	0.01	0.108	0.099	0.79	
n-Nitrosodiphenylamine	1	0		8.83	48.22	50	20	0.01	0.655	0.632	3.56	
2,4,6-Tribromophenol	1	0	S	8.96	50.94	50	**		0.104	0.106	1.87	
1,2-Diphenylhydrazine	1	0		8.87	50.97	50	**		0.704	0.718	1.93	
4-Bromophenyl-phenylether	1	0		9.21	48.76	50	20	0.1	0.228	0.222	2.48	
Hexachlorobenzene	1	0		9.27	49.07	50	20	0.1	0.247	0.242	1.86	
N-Octadecane	1	0		9.53	50.79	50	**	0.05	0.357	0.363	1.59	
Pentachlorophenol	1	0		9.47	50.86	50	20	0.05	0.140	0.135	1.72	
Phenanthrene	1	0		9.71	46.11	50	20	0.7	1.157	1.067	7.78	
Anthracene	1	0		9.76	48.77	50	20	0.7	1.158	1.129	2.47	
Carbazole	1	0		9.94	47.18	50	20	0.01	1.039	0.981	5.65	
Di-n-butylphthalate	1	0		10.31	49.06	50	20	0.01	1.086	1.138	1.88	
Fluoranthene	1	0		11.04	48.65	50	20	0.6	1.237	1.204	2.71	
Chrysene-d12	1	0	I	12.73	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.30	47.44	50	20	0.6	1.382	1.311	5.12	
Benzidine	1	0		11.20	46.45	50	**		0.702	0.680	7.10	
Terphenyl-d14	1	0	S	11.48	23.80	25	**		0.665	0.633	4.81	
4,4'-DDE	1	0		11.42	47.08		**		0.276			
4,4'-DDD	1	0		11.82	49.92		**		0.454			
Butylbenzylphthalate	1	0		12.08	47.27	50	20	0.01	0.477	0.494	5.46	
4,4'-DDT	1	0		12.17	50.39		**		0.412			
3,3'-Dichlorobenzidine	1	0		12.70	50.07	50	20	0.01	0.446	0.462	0.15	
Benzo[a]anthracene	1	0		12.72	48.47	50	20	0.8	1.328	1.287	3.07	
Chrysene	1	0		12.77	48.35	50	20	0.7	1.327	1.283	3.30	
bis(2-Ethylhexyl)phthalate	1	0		12.77	49.45	50	20	0.01	0.733	0.783	1.11	
Perylene-d12	1	0	I	14.35	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.51	46.47	50	20	0.01	1.093	1.066	7.07	
Benzo[b]fluoranthene	1	0		13.94	47.97	50	20	0.7	1.212	1.163	4.06	
Benzo[k]fluoranthene	1	0		13.97	48.65	50	20	0.7	1.221	1.188	2.71	
Benzo[a]pyrene	1	0		14.29	48.71	50	20	0.7	1.138	1.060	2.59	
Indeno[1,2,3-cd]pyrene	1	0		15.66	51.37	50	20	0.5	1.296	1.253	2.75	
Dibenzo[a,h]anthracene	1	0		15.68	47.94	50	20	0.4	1.084	1.039	4.12	
Benzo[g,h,i]perylene	1	0		16.03	47.74	50	20	0.5	1.075	1.026	4.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118280.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/26/2021 11:19:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.077	0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.698	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1101601 0097

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118179.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 09:46

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	63296	2.56	77040	5.80	293898	6.80	151485	8.23	287097	9.68	268402	12.73	280818	14.35
Eval File Area Limit:	31648-126592		38520-154080		146949-587796		75742-302970		143548-574194		134201-536804		140409-561636	
Eval File Rt Limit:	2.06-3.06		5.3-6.3		6.3-7.3		7.73-8.73		9.18-10.18		12.23-13.23		13.85-14.85	
Data File	Sample#													
5M118179.D	CAL BNA@50PPM	63296	2.56	77040	5.80	293898	6.80	151485	8.23	287097	9.68	268402	12.73	280818	14.35
5M118180.D	CAL BNA@10PPM	58584	2.56	72909	5.80	288576	6.80	149160	8.22	284358	9.68	252652	12.73	264012	14.34
5M118181.D	CAL BNA@2PPM	76929	2.56	99683	5.80	399603	6.80	201059	8.22	380256	9.68	331595	12.73	348704	14.35
5M118182.D	CAL BNA@196PPM	56266	2.56	65981	5.80	257365	6.80	133515	8.23	253430	9.68	251230	12.74	258254	14.35
5M118183.D	CAL BNA@160PPM	60654	2.56	74436	5.80	280789	6.80	142278	8.23	275606	9.68	270868	12.74	272679	14.35
5M118184.D	CAL BNA@120PPM	76476	2.56	90353	5.80	344669	6.81	174310	8.23	331203	9.68	326582	12.74	337948	14.35
5M118185.D	CAL BNA@80PPM	64875	2.56	79673	5.80	301407	6.80	152512	8.23	291397	9.68	280378	12.74	296285	14.35
5M118186.D	CAL BNA@20PPM	63048	2.56	80375	5.80	309606	6.80	158682	8.23	299988	9.68	274859	12.73	287473	14.35
5M118187.D	CAL BNA@0.5PPM	63196	2.56	80953	5.80	310870	6.80	159598	8.22	305634	9.68	260399	12.73	271408	14.34
5M118188.D	ICV BNA@50PPM	85295	2.56	106545	5.80	408594	6.80	210741	8.23	402355	9.68	382654	12.73	395717	14.35
5M118189.D	AD26497-008	65733	2.56	82859	5.80	319432	6.80	164496	8.22	312769	9.68	264336	12.73	282902	14.35
5M118190.D	AD26497-007	88955	2.56	111050	5.80	445844	6.80	223358	8.22	426733	9.68	380919	12.73	401938	14.35
5M118191.D	AD26509-002	82699	2.56	106386	5.79	423577	6.80	213165	8.22	394516	9.68	340772	12.73	365617	14.35
5M118192.D	AD26509-001	91142	2.56	107847	5.80	431734	6.80	221583	8.22	418025	9.68	362363	12.73	393343	14.35
5M118193.D	AD26503-021	54624	2.56	69330	5.80	274672	6.80	137287	8.22	261172	9.68	224115	12.73	236660	14.34
5M118194.D	AD26497-007(MS)	77237	2.56	95980	5.80	366959	6.80	182546	8.23	348210	9.68	334362	12.73	341671	14.35
5M118195.D	AD26497-007(MSD)	80154	2.56	97342	5.80	376263	6.80	189117	8.23	361692	9.68	339154	12.74	348393	14.35
5M118196.D	WMB95219	77171	2.56	98377	5.79	381120	6.80	195575	8.22	365724	9.68	318806	12.73	339412	14.35

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101601 0098

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M108717.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 12:21

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
Eval File Area Limit:	17714-70856		35041-140164		137126-548506		70144-280574		139070-556280		150900-603598		183194-732774	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.92-8.92		9.41-10.41		12.48-13.48		14.12-15.12	

Data File	Sample#													
9M108709.D	CAL BNA@10PPM	34700	2.80	65516	5.97	265228	6.98	135831	8.42	265051	9.91	277168	12.97	315415	14.62
9M108710.D	CAL BNA@2PPM	33605	2.80	64419	5.97	257112	6.98	131833	8.43	257795	9.91	257309	12.98	296713	14.62
9M108711.D	CAL BNA@196PPM	33719	2.80	61337	5.97	241868	6.98	122453	8.43	237938	9.91	260650	12.98	294177	14.63
9M108712.D	CAL BNA@160PPM	35996	2.80	69124	5.97	273936	6.98	136523	8.43	268756	9.91	289705	12.98	328313	14.63
9M108713.D	CAL BNA@120PPM	36366	2.80	70288	5.97	277888	6.98	139013	8.43	273562	9.91	299304	12.98	341975	14.62
9M108714.D	CAL BNA@80PPM	34771	2.80	68655	5.97	273996	6.98	139209	8.42	273683	9.91	297476	12.98	340499	14.62
9M108715.D	CAL BNA@20PPM	33643	2.80	67821	5.97	265945	6.98	135364	8.42	268679	9.91	287171	12.97	330844	14.62
9M108716.D	CAL BNA@0.5PPM	34071	2.80	69631	5.97	276011	6.98	142206	8.42	284240	9.91	292603	12.97	342572	14.62
9M108717.D	CAL BNA@50PPM	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
9M108718.D	BNA@50PPM	38344	2.80	80633	5.97	318838	6.98	168953	8.42	330314	9.91	379481	12.98	430917	14.62
9M108719.D	ICV BNA@50PPM	33582	2.80	68739	5.97	271416	6.98	142007	8.42	278344	9.91	312757	12.98	362944	14.62
9M108720.D	SMB95218	28739	2.78	61936	5.97	235735	6.98	126987	8.42	248724	9.91	264781	12.97	293547	14.62
9M108721.D	AD26497-002	30440	2.78	60069	5.97	236959	6.98	119605	8.42	237191	9.91	240972	12.97	275125	14.62
9M108722.D	AD26497-003	31011	2.78	60757	5.97	238028	6.98	120813	8.42	241358	9.91	251407	12.97	289358	14.62
9M108723.D	AD26497-004	29769	2.78	58389	5.97	232738	6.97	119075	8.42	237707	9.91	237789	12.97	269610	14.62
9M108724.D	AD26497-005	26560	2.78	52023	5.97	216264	6.98	111540	8.42	217865	9.91	227780	12.97	251103	14.62
9M108725.D	AD26383-001(30X)	39983	2.80	77364	5.97	308859	6.98	156298	8.42	307008	9.91	306057	12.97	353188	14.62
9M108726.D	OMB95201	41826	2.79	84166	5.97	336183	6.98	174841	8.42	342000	9.91	346831	12.97	402557	14.62
9M108727.D	SMB95218(MS)	32825	2.78	59968	5.97	242111	6.98	127473	8.42	245667	9.91	265171	12.98	300545	14.62
9M108728.D	SMB95225	36430	2.78	62408	5.97	254419	6.97	127919	8.42	249794	9.91	242886	12.97	278357	14.62
9M108729.D	SMB95225(MS)	38021	2.79	64793	5.97	256611	6.98	129476	8.42	248758	9.91	259162	12.98	291042	14.62
9M108730.D	AD26503-007	36325	2.79	71178	5.97	289628	6.98	150146	8.42	292209	9.91	297971	12.97	342955	14.62
9M108731.D	AD26503-002	37755	2.78	72354	5.97	292831	6.98	148836	8.42	289385	9.91	284839	12.97	324736	14.62
9M108732.D	AD26503-015	34657	2.78	65824	5.97	264334	6.98	134547	8.42	262632	9.91	260119	12.97	297499	14.62
9M108733.D	AD26503-009	38291	2.78	70890	5.97	284272	6.98	143538	8.42	279901	9.91	275502	12.97	317033	14.62
9M108734.D	AD26503-005	36106	2.78	67535	5.97	272491	6.98	137941	8.42	268779	9.91	262991	12.97	300659	14.62
9M108735.D	AD26503-001	35619	2.78	67941	5.97	277837	6.98	139921	8.42	269025	9.91	269641	12.97	304637	14.62
9M108736.D	AD26404-001	36637	2.78	70203	5.97	280570	6.98	144648	8.42	268627	9.91	272205	12.97	311237	14.62
9M108737.D	AD26404-001(MS)	36101	2.78	68988	5.97	275510	6.98	138704	8.42	261239	9.91	267946	12.98	306233	14.62
9M108738.D	AD26404-001(MSD)	35416	2.78	67918	5.97	272473	6.98	137290	8.42	258003	9.91	264275	12.98	297844	14.62

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101601 0099

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M117280.D Method: EPA 8270E

Analysis Date/Time: 10/19/21 10:23

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	60254	2.57	123037	5.81	491892	6.83	263335	8.27	529297	9.73	472934	12.78	512896	14.44
Eval File Area Limit:	30127-120508		61518-246074		245946-983784		131668-526670		264648-1058594		236467-945868		256448-1025792	
Eval File Rt Limit:	2.07-3.07		5.31-6.31		6.33-7.33		7.77-8.77		9.23-10.23		12.28-13.28		13.94-14.94	

Data File	Sample#													
7M117280.D	CAL BNA@50PPM	60254	2.57	123037	5.81	491892	6.83	263335	8.27	529297	9.73	472934	12.78	512896	14.44
7M117281.D	CAL BNA@10PPM	62006	2.57	130798	5.81	543001	6.82	297090	8.25	595429	9.71	537386	12.78	571949	14.43
7M117282.D	CAL BNA@2PPM	55787	2.57	118033	5.81	476316	6.82	262419	8.26	524072	9.72	467997	12.78	495555	14.44
7M117283.D	CAL BNA@196PPM	57027	2.58	109820	5.81	440432	6.82	239432	8.26	481889	9.73	428097	12.79	455846	14.46
7M117284.D	CAL BNA@160PPM	61182	2.57	127441	5.81	507058	6.82	266924	8.26	537008	9.73	483199	12.79	521915	14.45
7M117285.D	CAL BNA@120PPM	62099	2.58	136182	5.81	533682	6.82	283361	8.25	567742	9.72	499339	12.79	541661	14.44
7M117286.D	CAL BNA@80PPM	56885	2.56	127847	5.81	504854	6.82	268314	8.26	544310	9.72	496062	12.79	537018	14.44
7M117287.D	CAL BNA@20PPM	55039	2.57	122181	5.81	502949	6.82	264448	8.25	527411	9.71	466767	12.78	502145	14.42
7M117288.D	CAL BNA@0.5PPM	63753	2.57	130340	5.81	535207	6.81	298380	8.25	595853	9.71	526986	12.78	565868	14.45
7M117289.D	ICV BNA@50PPM	55000	2.57	118429	5.81	469609	6.82	250759	8.25	511052	9.71	471732	12.78	504559	14.43

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101601 0100

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118280.D Method: EPA 8270E

Analysis Date/Time: 10/26/21 11:19

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	66890	2.57	84589	5.80	330274	6.80	170345	8.23	317887	9.68	306604	12.73	336717	14.35
Eval File Area Limit:	33445-133780		42294-169178		165137-660548		85172-340690		158944-635774		153302-613208		168358-673434	
Eval File Rt Limit:	2.07-3.07		5.3-6.3		6.3-7.3		7.73-8.73		9.18-10.18		12.23-13.23		13.85-14.85	

Data File	Sample#													
5M118281.D	OMB95381(MS)	58351	2.57	69094	5.80	264809	6.80	133569	8.23	249607	9.68	234631	12.73	247130	14.35
5M118282.D	OMB95381	71975	2.57	89569	5.80	343682	6.80	179250	8.22	338662	9.68	294776	12.73	318024	14.35
5M118283.D	26741-006(10X)	86483	2.56	109615	5.80	436709	6.80	225128	8.22	443700	9.68	391071	12.73	428505	14.35
5M118284.D	SMB95380(MS)	67106	2.54	69275	5.79	265766	6.80	133800	8.23	254445	9.68	234990	12.73	256337	14.35
5M118285.D	AD26577-001	60390	2.54	67417	5.79	263968	6.80	136342	8.22	265104	9.68	230349	12.73	252236	14.35
5M118286.D	SMB95380	56951	2.54	64078	5.79	263776	6.80	137975	8.22	266308	9.68	231553	12.73	257472	14.35

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101601 0101

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109074.D Method: EPA 8270E

Analysis Date/Time: 10/26/21 08:55

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	36242	2.80	65314	5.97	263124	6.98	133794	8.43	257977	9.91	284338	12.99	331244	14.64
Eval File Area Limit:	18121-72484		32657-130628		131562-526248		66897-267588		128988-515954		142169-568676		165622-662488	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.93-8.93		9.41-10.41		12.49-13.49		14.14-15.14	

Data File	Sample#													
9M109075.D	WMB95369	34272	2.81	62055	5.97	246181	6.98	125042	8.42	244450	9.91	246568	12.98	289371	14.64
9M109076.D	AD26741-002	33081	2.81	59140	5.97	231838	6.98	118661	8.42	228966	9.91	236104	12.98	280707	14.64
9M109077.D	AD26741-003	31950	2.80	57634	5.97	229449	6.98	116883	8.42	224043	9.91	227338	12.98	267076	14.65
9M109078.D	AD26741-004	33399	2.81	59155	5.97	232582	6.98	120448	8.43	231243	9.91	236480	12.98	278358	14.64
9M109079.D	AD26741-006	32300	2.81	55976	5.97	252403	6.98	114399	8.42	219570	9.91	227874	12.98	269168	14.65
9M109080.D	AD26771-005	30171	2.81	52232	5.97	218598	6.98	110454	8.42	213494	9.91	216745	12.98	251865	14.65
9M109081.D	AD26771-014	31168	2.80	53111	5.97	226025	6.98	113194	8.42	219112	9.91	211965	12.98	238268	14.64
9M109082.D	AD26771-015	32480	2.80	56096	5.97	225002	6.98	116358	8.42	228395	9.91	235125	12.98	273678	14.65
9M109083.D	AD26771-016	32178	2.80	56426	5.97	227082	6.98	114158	8.42	204225	9.91	236700	12.98	276937	14.64
9M109084.D	AD26741-002(3X)	34529	2.80	59488	5.97	243719	6.98	130358	8.42	250634	9.91	257603	12.98	301890	14.64
9M109085.D	AD26741-006(5X)	34009	2.80	57858	5.97	249190	6.98	116070	8.42	257346	9.91	257851	12.98	313190	14.64
9M109086.D	AD26823-001	31349	2.81	56687	5.97	212935	6.98	122962	8.43	100666	9.94	254530	13.02	290245	14.66
9M109087.D	AD26807-001	37398	2.80	63358	5.97	254860	6.98	137213	8.42	263748	9.91	271318	12.98	317274	14.64
9M109088.D	AD26765-001	35679	2.81	64365	5.97	262540	6.98	131820	8.42	255089	9.91	262374	12.98	267283	14.64
9M109089.D	AD26765-001(MS)	37330	2.80	68567	5.97	276220	6.98	136072	8.42	264067	9.91	283129	12.98	326397	14.64
9M109090.D	SMB95380	36617	2.78	59534	5.97	243368	6.97	125765	8.42	241042	9.91	239758	12.98	294276	14.64
9M109091.D	AD26765-001(MSD)	38892	2.80	69101	5.97	274022	6.98	145565	8.42	275918	9.91	293941	12.98	338079	14.64
9M109092.D	AD26651-009	34881	2.80	55957	5.97	225881	6.97	96940	8.44	62268	9.96	226964	13.04	265252	14.66
9M109093.D	AD26692-004	39886	2.79	67417	5.97	267761	6.98	136378	8.42	256317	9.91	265029	12.98	307243	14.64
9M109094.D	AD26692-006	39720	2.79	70997	5.97	282741	6.97	142706	8.42	271528	9.91	277037	12.98	318260	14.64
9M109095.D	AD26768-001	41613	2.80	73919	5.97	297061	6.98	156994	8.43	231605	9.93	314619	13.00	359326	14.65
9M109096.D	AD26770-001(5X)	43075	2.81	75666	5.97	297145	6.98	149048	8.43	244758	9.92	298887	13.00	348526	14.64
9M109097.D	AD26669-001(5X)	42233	2.81	74317	5.97	290110	6.98	145980	8.42	277272	9.91	282264	12.98	325552	14.64
9M109098.D	AD26764-003(3X)	39969	2.80	70757	5.97	282916	6.98	143004	8.42	272257	9.91	273305	12.98	314949	14.64
9M109099.D	AD26778-002(3X)	39048	2.81	69451	5.97	281022	6.98	141296	8.42	268797	9.91	270740	12.98	315033	14.64
9M109100.D	AD26778-004(3X)	39684	2.81	72033	5.97	288197	6.98	146358	8.42	276728	9.91	273472	12.98	322834	14.64
9M109101.D	AD26778-006(3X)	39131	2.81	70013	5.97	281636	6.98	141447	8.42	269536	9.91	267840	12.98	319406	14.64
9M109102.D	AD26715-001	42871	2.79	76668	5.97	306909	6.98	153461	8.42	292932	9.91	291718	12.98	343766	14.64
9M109103.D	AD26715-002	39961	2.79	74605	5.97	266778	6.98	143327	8.42	269521	9.91	272834	12.98	323801	14.64
9M109104.D	AD26602-004(5X)	41125	2.81	72046	5.97	278766	6.98	141904	8.43	265223	9.91	269879	12.98	316525	14.64
9M109105.D	AD26654-004	38338	2.80	70144	5.97	278559	6.98	79677	8.44	62161	9.97	291422	13.02	331671	14.65

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101601 0102

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M117400.D Method: EPA 8270E

Analysis Date/Time: 10/26/21 09:00

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	56161	2.56	132756	5.81	529704	6.82	293253	8.25	590997	9.71	529890	12.78	550240	14.41
Eval File Area Limit:	28080-112322		66378-265512		264852-1059408		146626-586506		295498-1181994		264945-1059780		275120-1100480	
Eval File Rt Limit:	2.06-3.06		5.31-6.31		6.32-7.32		7.75-8.75		9.21-10.21		12.28-13.28		13.91-14.91	

Data File	Sample#													
7M117401.D	WMB95369(MS)	54541	2.57	125317	5.81	490657	6.81	260558	8.25	518002	9.71	458054	12.78	473999	14.41
7M117402.D	WMB95369	62581	2.57	143284	5.81	565194	6.81	315057	8.25	625652	9.71	558114	12.78	590848	14.41
7M117406.D	AD26421-001(T)	51533	2.57	111372	5.81	445606	6.81	230551	8.25	444376	9.71	421668	12.78	452048	14.42
7M117407.D	AD26421-001(T)(MS)	61548	2.57	134298	5.81	518008	6.82	261805	8.25	504526	9.71	473565	12.78	508937	14.43
7M117408.D	AD26421-001(T)(MSD	59715	2.57	135041	5.81	521318	6.82	267169	8.25	518985	9.72	486828	12.78	516106	14.42
7M117409.D	AD26541-002(T)	64385	2.57	140311	5.81	549140	6.81	280591	8.25	540753	9.71	487145	12.78	518060	14.41
7M117411.D	EF-SPLP V-359711(1	52501	2.57	117335	5.81	476846	6.81	264318	8.25	525758	9.71	450538	12.77	475109	14.41
7M117412.D	EF-SPLP V-359711(1	49689	2.56	109785	5.81	438050	6.81	243623	8.25	472438	9.71	404629	12.77	428286	14.41
7M117413.D	WMB95370	72403	2.57	156440	5.81	627722	6.82	348677	8.25	696324	9.71	599381	12.78	646548	14.41
7M117414.D	AD26774-001	62108	2.57	133955	5.81	539356	6.82	294133	8.26	586946	9.72	494938	12.78	525589	14.41
7M117415.D	AD26741-006(10X)	68685	2.57	151303	5.81	599563	6.82	327447	8.25	646223	9.71	583813	12.77	628067	14.41
7M117416.D	AD26743-001	67158	2.56	141154	5.81	563358	6.81	293432	8.25	564089	9.71	534630	12.77	583337	14.41
7M117417.D	AD26763-001	54483	2.56	118392	5.81	470901	6.81	264560	8.24	508276	9.71	444381	12.77	469573	14.41
7M117418.D	AD26635-002	61427	2.56	128786	5.81	509734	6.81	266002	8.24	495794	9.71	422718	12.77	458769	14.41
7M117419.D	AD26635-002(MS)	64855	2.56	133923	5.81	519653	6.81	270877	8.24	514112	9.71	453676	12.78	484308	14.40
7M117420.D	AD26635-002(MSD)	70646	2.56	147421	5.81	567533	6.81	297522	8.24	557077	9.71	487894	12.78	526940	14.40
7M117421.D	AD26835-001	55990	2.57	129771	5.81	502599	6.81	270110	8.24	518208	9.71	436156	12.77	448606	14.40
7M117422.D	AD26835-002	66347	2.56	148259	5.81	587852	6.81	312831	8.24	589365	9.71	478668	12.77	509600	14.40
7M117423.D	SMB95380	53878	2.56	123477	5.81	494961	6.81	271611	8.24	524536	9.71	439406	12.77	462350	14.40

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26715-001
Client Id: SB-006SS(14-16)
Data File: 8G667241.D
Analysis Date: 10/27/21 15:02
Date Rec/Extracted: 10/16/21-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	71	U				

Worksheet #: 614770

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667241.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:02:32
Operator : AH/ABM
Sample : AD26715-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 15:36:45 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

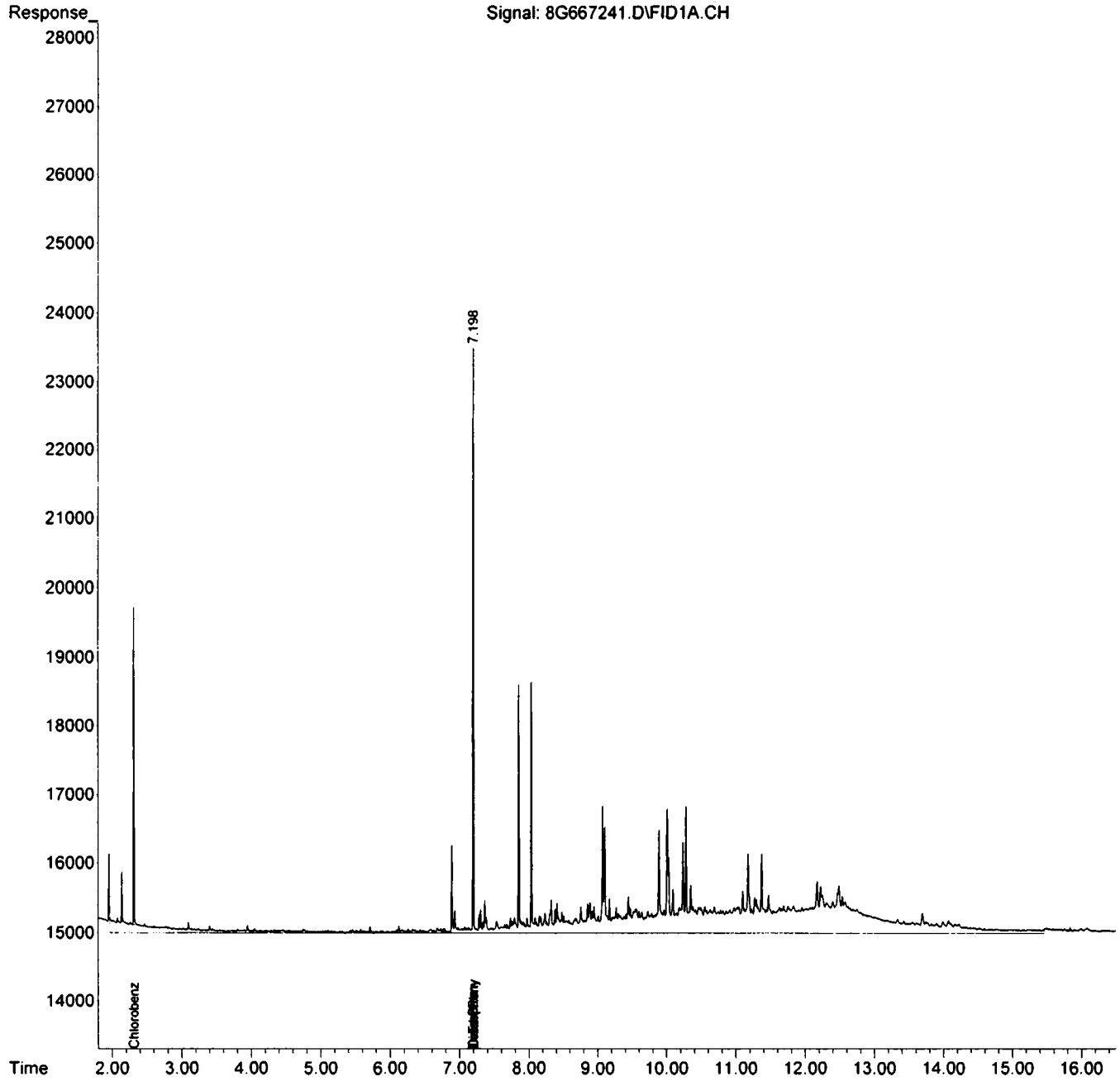
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.314	26645	12.142		
23)	O-Terphenyl	7.199	50054	12.857		
24)d	Diesel Range Organics(T	7.198f	530119	164.683		m
25)t	Total Petroleum Hydroca	7.198f	1462781	466.542		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667241.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:02:32
Operator : AH/ABM
Sample : AD26715-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 15:36:45 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26715-002
Client Id: SB-005SS(2-4)
Data File: 8G667242.D
Analysis Date: 10/27/21 15:27
Date Rec/Extracted: 10/16/21-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**67**	**150**				

Worksheet #: 614770 *Total Target Concentration* 150 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667242.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:27:54
Operator : AH/ABM
Sample : AD26715-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 11:50:42 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

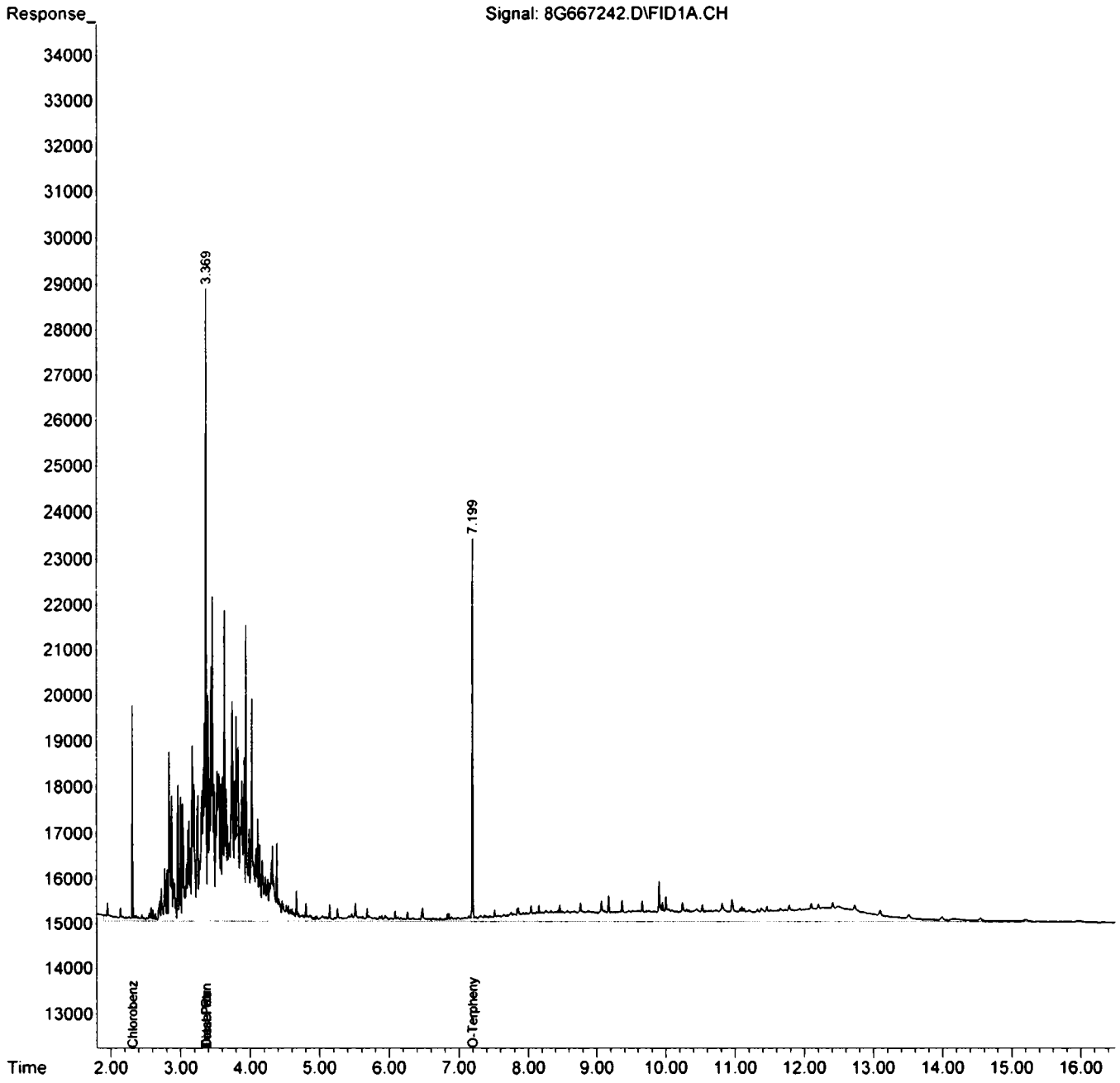
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.314	26158	11.920		
23)	O-Terphenyl	7.199	51436	13.212		
24)d	Diesel Range Organics(T	3.369	2146495	666.816		m
25)t	Total Petroleum Hydroca	3.369	2986247	952.438		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667242.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:27:54
Operator : AH/ABM
Sample : AD26715-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 11:50:42 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95402
Client Id:
Data File: 8G667239.D
Analysis Date: 10/27/21 14:11
Date Rec/Extracted: NA-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 614770

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

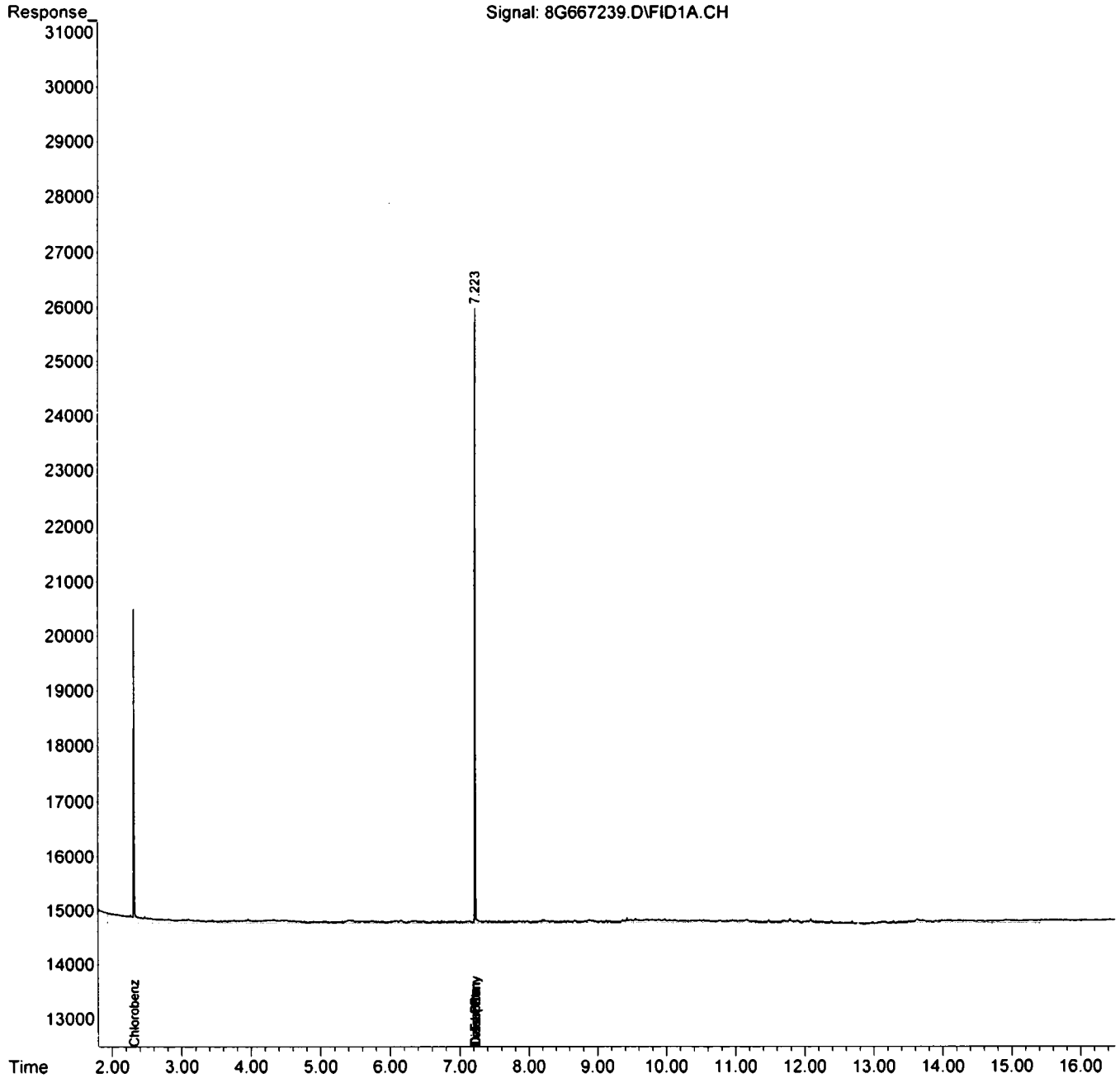
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.316	32504	14.812		
23)	O-Terphenyl	7.223	69526	17.859		
24)d	Diesel Range Organics(T	7.223f	216720	67.325		m
25)t	Total Petroleum Hydroca	7.223f	429789	137.077		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667238.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 12:35:18
Operator : AH/ABM
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 13:09:33 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

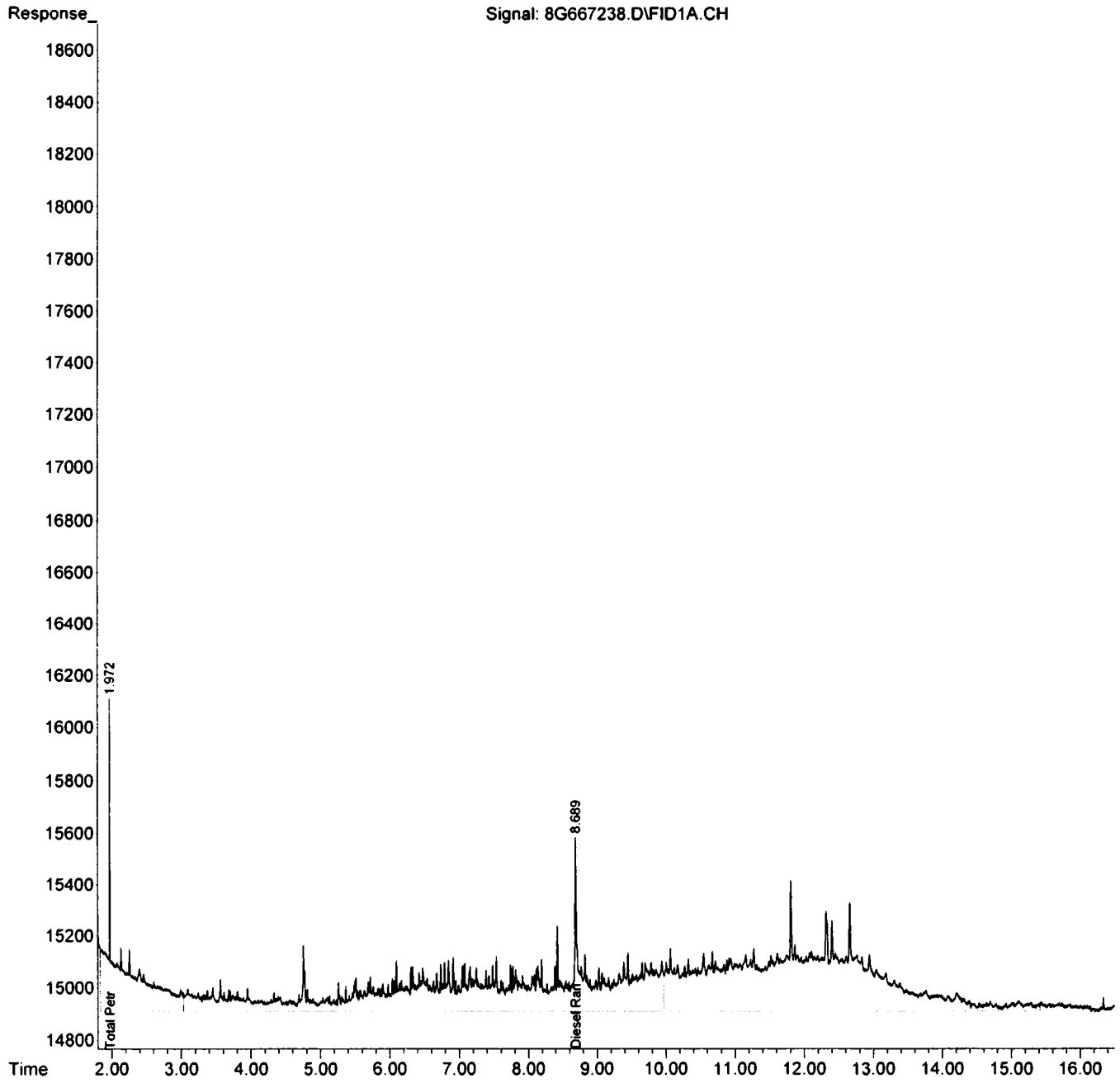
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	8.689f	363721	112.991		m
25)t	Total Petroleum Hydroca	1.972	877855	279.985		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667238.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 12:35:18
Operator : AH/ABM
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 13:09:33 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667239.D	SMB95402	S	10/27/21 14:11	1		74	89				
8G667243.D	AD26715-001(MS)	S	10/27/21 15:53	1		62	61				
8G667244.D	AD26715-001(MSD)	S	10/27/21 16:18	1		57	60				
8G667241.D	AD26715-001	S	10/27/21 15:02	1		61	64				
8G667242.D	AD26715-002	S	10/27/21 15:27	1		60	66				
8G667240.D	SMB95402(MS)	S	10/27/21 14:37	1		67	66				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667240.D	SMB95402(MS)	10/27/2021 2:37:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1884.54	0	3000	63	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1773.75	151.82	3000	54	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1718.41	151.82	3000	52	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Duplicate(If applicable):	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	1718.41	1773.75	3.2	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95402
Blank Data File: 8G667239.D
Matrix: Soil

Blank Analysis Date: 10/27/21 14:11
Blank Extraction Date: 10/27/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26715-001	8G667241.D	10/27/21 15:02
AD26715-002	8G667242.D	10/27/21 15:27
AD26715-001(MS)	8G667243.D	10/27/21 15:53
AD26715-001(MSD	8G667244.D	10/27/21 16:18
SMB95402(MS)	8G667240.D	10/27/21 14:37

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2)	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2)	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667236.D	INST BLK(MECL2)	10/27/21 09:26	Soil					
8G667237.D	CALTPH@20PPM	10/27/21 09:51	Soil	8G66723	7.2007	0		
8G667238.D	INST BLK(MECL2)	10/27/21 12:35	Aqueous	8G66723	0.0000	200		
8G667239.D	SMB95402	10/27/21 14:11	Soil	8G66723	7.2235	0.3161		
8G667240.D	SMB95402(MS)	10/27/21 14:37	Soil	8G66723	7.2007	0		
8G667241.D	AD26715-001	10/27/21 15:02	Soil	8G66723	7.1988	0.0264		
8G667242.D	AD26715-002	10/27/21 15:27	Soil	8G66723	7.1991	0.0222		
8G667243.D	AD26715-001(MS)	10/27/21 15:53	Soil	8G66723	7.1978	0.0403		
8G667244.D	AD26715-001(MSD)	10/27/21 16:18	Soil	8G66723	7.1976	0.0431		
8G667245.D	CALTPH@20PPM	10/27/21 18:13	Soil	8G66723	7.2106	0.1374		
8G667246.D	TPH@20PPM	10/27/21 18:38	Soil	8G66724	7.1986	0.1666		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101601 0122

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G667237.D			8G667245.D										
Method:				8015			8015										
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM										
Calibration Date/Time				10/27/21 09:51			10/27/21 18:13										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	18.44	20	7.8	17.27	20	13.7									
C9	20	1	0	18.3	20	8.5	17.36	20	13.2									
C10	20	1	0	18.23	20	8.9	17.48	20	12.6									
C12	20	1	0	18.53	20	7.3	17.55	20	12.3									
C14	20	1	0	17.93	20	10.4	17.47	20	12.7									
C16	20	1	0	17.94	20	10.3	17.58	20	12.1									
C17	20	1	0	17.57	20	12.2	16.22	20	18.9									
Pristane	20	1	0	18.32	20	8.4	17.89	20	10.6									
C18	20	1	0	17.7	20	11.5	17.45	20	12.8									
Phytane	20	1	0	18.16	20	9.2	17.7	20	11.5									
C20	20	1	0	18	20	10.0	17.54	20	12.3									
C22	20	1	0	17.82	20	10.9	17.46	20	12.7									
C24	20	1	0	17.54	20	12.3	17.52	20	12.4									
C26	20	1	0	17.5	20	12.5	17.43	20	12.9									
C28	20	1	0	17.45	20	12.8	17.4	20	13.0									
C30	20	1	0	17.33	20	13.4	17.56	20	12.2									
C32	20	1	0	17.4	20	13.0	17.4	20	13.0									
C34	20	1	0	17.1	20	14.5	17.17	20	14.2									
C36	20	1	0	16.52	20	17.4	16.87	20	15.6									
C40	20	1	0	15.06	20	24.7*	15.29	20	23.6*									
C44	20	1	0	13.7	20	31.5*	15.1	20	24.5*									
Chlorobenzene	20	1	0	18.11	20	9.4	17.16	20	14.2									
O-Terphenyl	20	1	0	17.83	20	10.9	17.45	20	12.8									
Average Difference	20	1	0			12.5			14.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	7.20	(7.16 - 7.24)	7.20	(7.16 - 7.24)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26715-001
Client Id: SB-006SS(14-16)
Data File: 8G667241.D
Analysis Date: 10/27/21 15:02
Date Rec/Extracted: 10/16/21-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	71	U				

Worksheet #: 614773

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667241.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:02:32
Operator : AH/ABM
Sample : AD26715-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 15:36:45 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

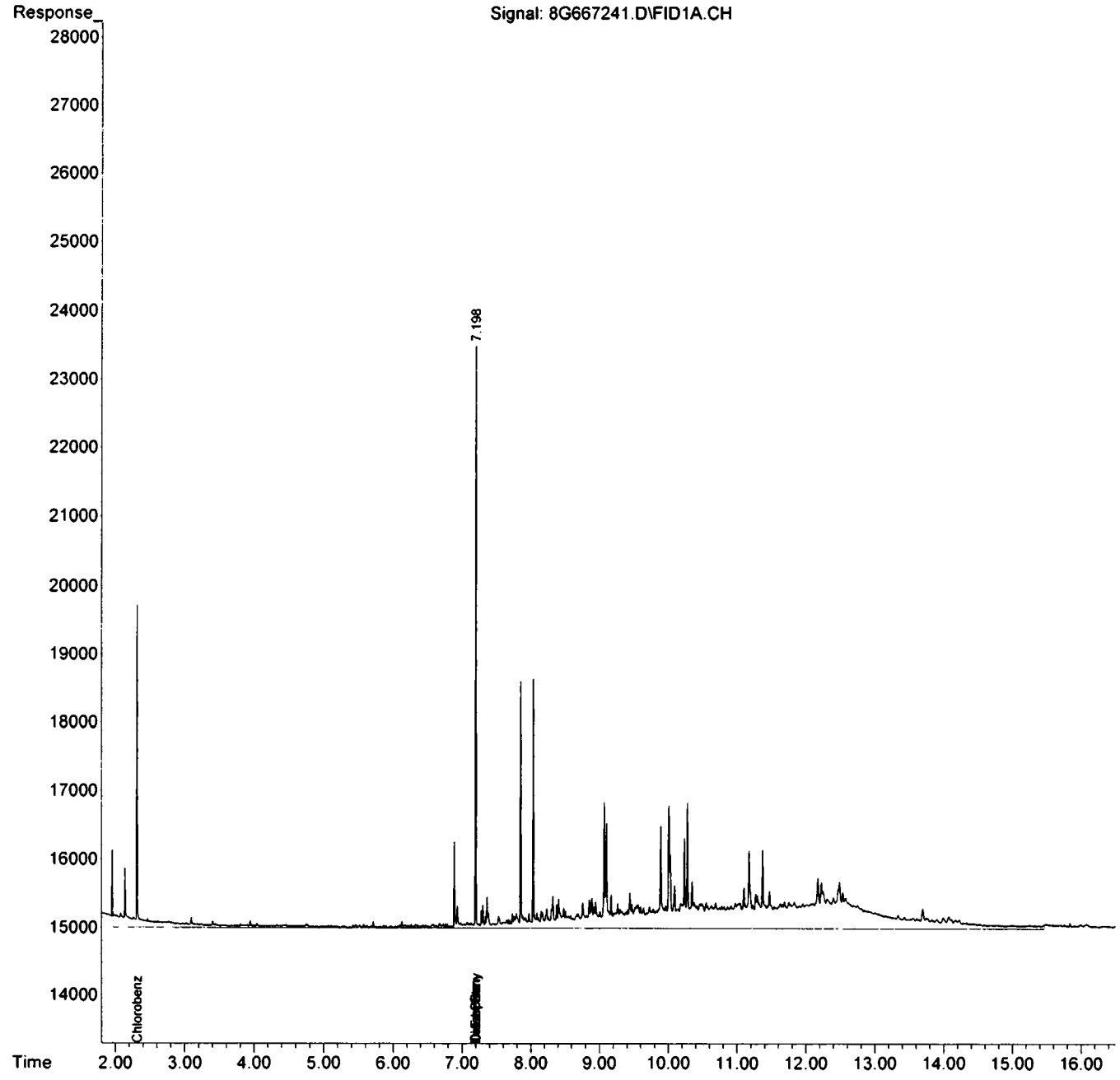
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.314	26645	12.142		
23)	O-Terphenyl	7.199	50054	12.857		
24)d	Diesel Range Organics(T	7.198f	530119	164.683		m
25)t	Total Petroleum Hydroca	7.198f	1462781	466.542		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667241.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:02:32
Operator : AH/ABM
Sample : AD26715-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 15:36:45 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26715-002
Client Id: SB-005SS(2-4)
Data File: 8G667242.D
Analysis Date: 10/27/21 15:27
Date Rec/Extracted: 10/16/21-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**67**	**120**				

Worksheet #: 614773 *Total Target Concentration* 120 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667242.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:27:54
Operator : AH/ABM
Sample : AD26715-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 11:50:42 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

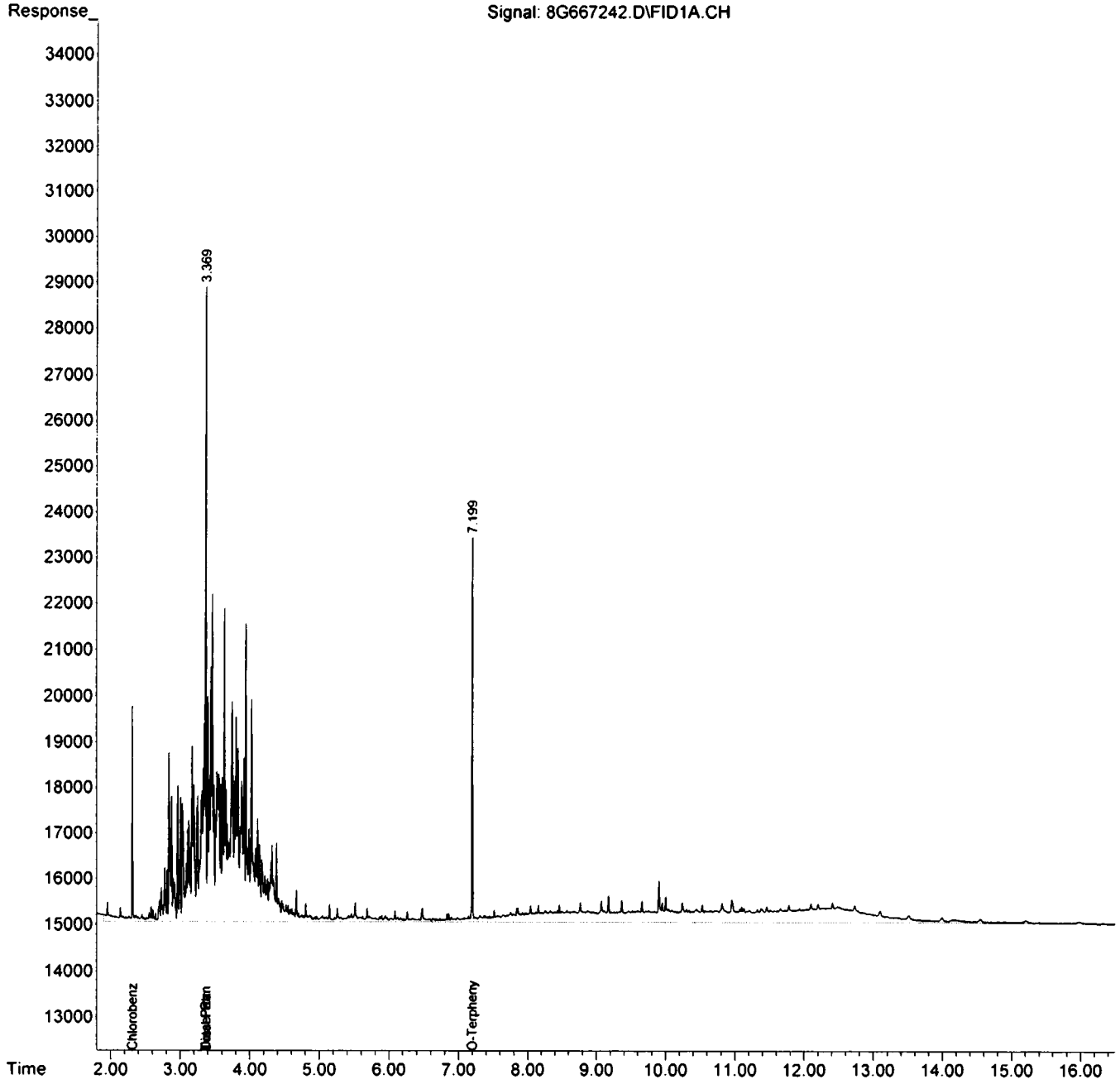
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.314	26158	11.920		
23)	O-Terphenyl	7.199	51436	13.212		
24)d	Diesel Range Organics(T	3.369	2146495	666.816		m
25)t	Total Petroleum Hydroca	3.369	2986247	952.438		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667242.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 15:27:54
Operator : AH/ABM
Sample : AD26715-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 11:50:42 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95402
Client Id:
Data File: 8G667239.D
Analysis Date: 10/27/21 14:11
Date Rec/Extracted: NA-10/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 614773 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

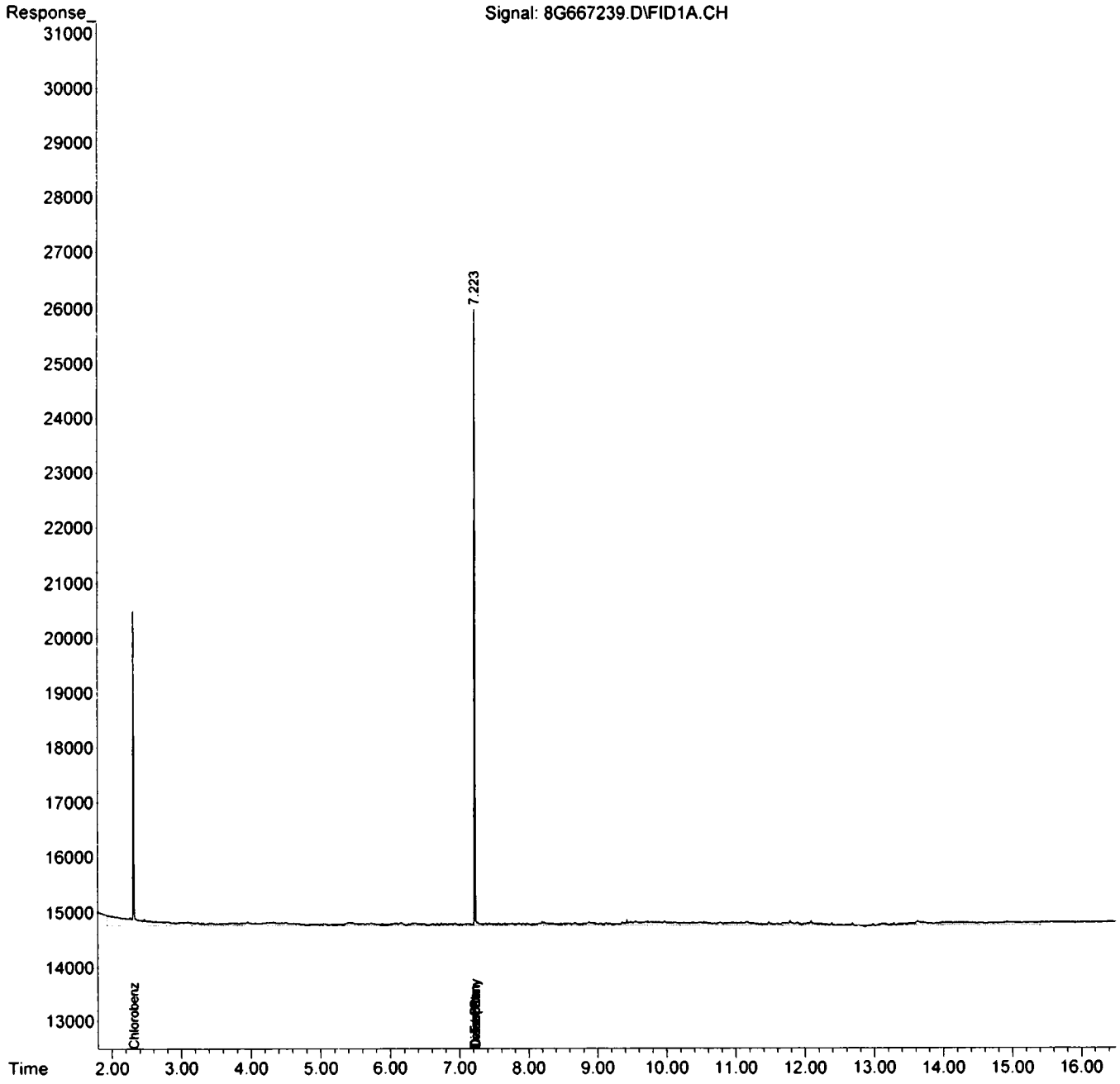
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.316	32504	14.812		
23)	O-Terphenyl	7.223	69526	17.859		
24)d	Diesel Range Organics(T	7.223f	216720	67.325		m
25)t	Total Petroleum Hydroca	7.223f	429789	137.077		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667239.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 14:11:54
Operator : AH/ABM
Sample : SMB95402
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 14:38:02 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667238.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 12:35:18
Operator : AH/ABM
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 13:09:33 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

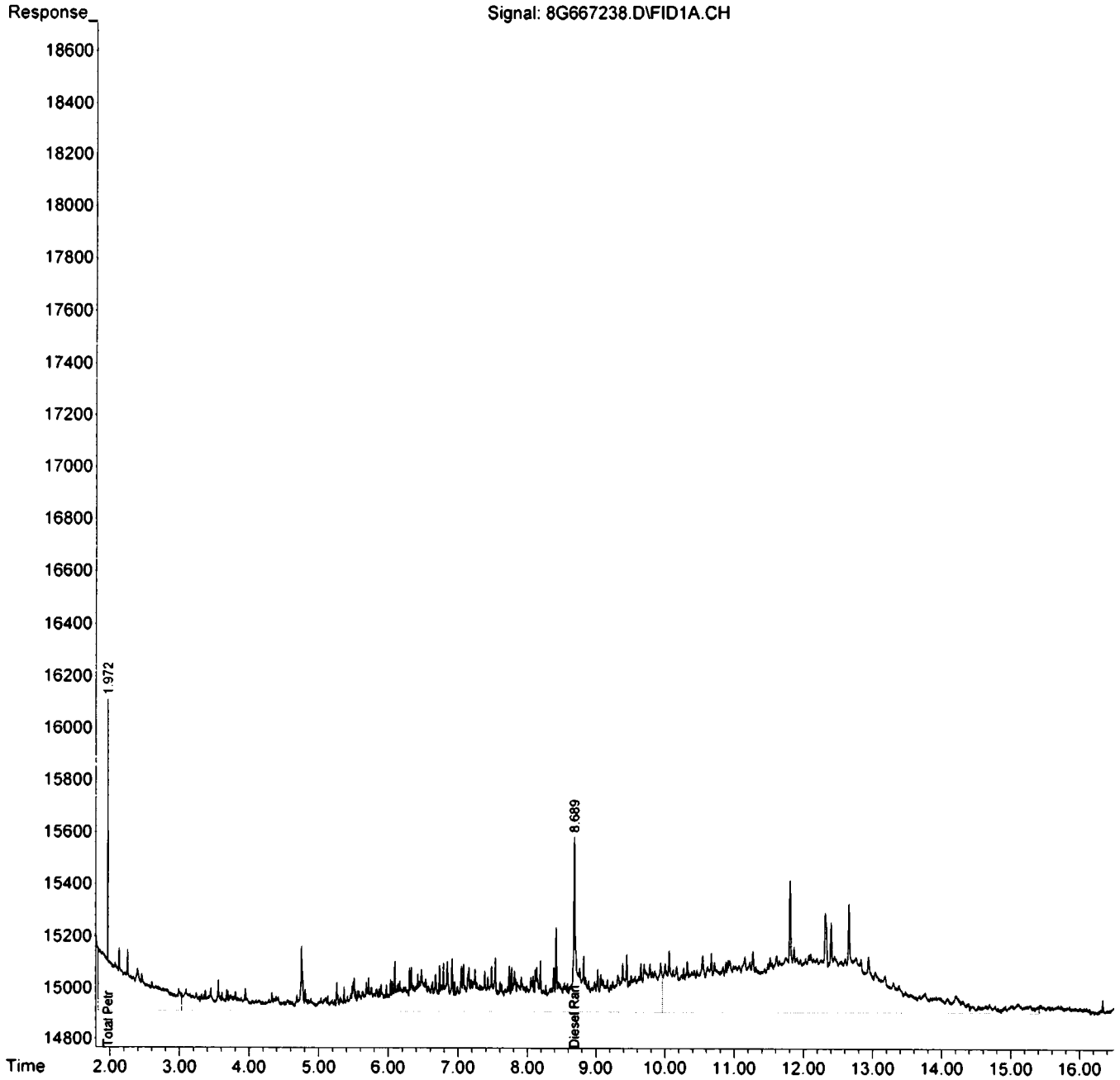
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)t	C44	0.000	0	N.D.	d
22)	Chlorobenzene	0.000	0	N.D.	d
23)	O-Terphenyl	0.000	0	N.D.	d
24)d	Diesel Range Organics(T	8.689f	363721	112.991	m
25)t	Total Petroleum Hydroca	1.972	877855	279.985	m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-27-21\
Data File : 8G667238.D
Signal(s) : FID1A.CH
Acq On : 27-Oct-21, 12:35:18
Operator : AH/ABM
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 13:09:33 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667239.D	SMB95402	S	10/27/21 14:11	1		74	89				
8G667243.D	AD26715-001(MS)	S	10/27/21 15:53	1		62	61				
8G667244.D	AD26715-001(MSD)	S	10/27/21 16:18	1		57	60				
8G667241.D	AD26715-001	S	10/27/21 15:02	1		61	64				
8G667242.D	AD26715-002	S	10/27/21 15:27	1		60	66				
8G667240.D	SMB95402(MS)	S	10/27/21 14:37	1		67	66				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667240.D	SMB95402(MS)	10/27/2021 2:37:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1884.54**	**0**	**3000**	**63**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1773.75**	**151.82**	**3000**	**54**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Non Spike(If applicable):	8G667241.D	AD26715-001	10/27/2021 3:02:32 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1718.41**	**151.82**	**3000**	**52**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95402

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667244.D	AD26715-001(MSD)	10/27/2021 4:18:26 PM
Duplicate(If applicable):	8G667243.D	AD26715-001(MS)	10/27/2021 3:53:09 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**1718.41**	**1773.75**	**3.2**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95402
Blank Data File: 8G667239.D
Matrix: Soil

Blank Analysis Date: 10/27/21 14:11
Blank Extraction Date: 10/27/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26715-001	8G667241.D	10/27/21 15:02
AD26715-002	8G667242.D	10/27/21 15:27
AD26715-001(MSD	8G667244.D	10/27/21 16:18
AD26715-001(MS)	8G667243.D	10/27/21 15:53
SMB95402(MS)	8G667240.D	10/27/21 14:37

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2)	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2)	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667236.D	INST BLK(MECL2)	10/27/21 09:26	Soil					
8G667237.D	CALTPH@20PPM	10/27/21 09:51	Soil	8G66723	7.2007	0		
8G667238.D	INST BLK(MECL2)	10/27/21 12:35	Aqueous	8G66723	0.0000	200		
8G667239.D	SMB95402	10/27/21 14:11	Soil	8G66723	7.2235	0.3161		
8G667240.D	SMB95402(MS)	10/27/21 14:37	Soil	8G66723	7.2007	0		
8G667241.D	AD26715-001	10/27/21 15:02	Soil	8G66723	7.1988	0.0264		
8G667242.D	AD26715-002	10/27/21 15:27	Soil	8G66723	7.1991	0.0222		
8G667243.D	AD26715-001(MS)	10/27/21 15:53	Soil	8G66723	7.1978	0.0403		
8G667244.D	AD26715-001(MSD)	10/27/21 16:18	Soil	8G66723	7.1976	0.0431		
8G667245.D	CALTPH@20PPM	10/27/21 18:13	Soil	8G66723	7.2106	0.1374		
8G667246.D	TPH@20PPM	10/27/21 18:38	Soil	8G66724	7.1986	0.1666		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101601 0144

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G667237.D			8G667245.D												
Method:				8015			8015												
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM												
Calibration Date/Time				10/27/21 09:51			10/27/21 18:13												
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	18.44	20	7.8	17.27	20	13.7									
C9	20	1	0	18.3	20	8.5	17.36	20	13.2									
C10	20	1	0	18.23	20	8.9	17.48	20	12.6									
C12	20	1	0	18.53	20	7.3	17.55	20	12.3									
C14	20	1	0	17.93	20	10.4	17.47	20	12.7									
C16	20	1	0	17.94	20	10.3	17.58	20	12.1									
C17	20	1	0	17.57	20	12.2	16.22	20	18.9									
Pristane	20	1	0	18.32	20	8.4	17.89	20	10.6									
C18	20	1	0	17.7	20	11.5	17.45	20	12.8									
Phytane	20	1	0	18.16	20	9.2	17.7	20	11.5									
C20	20	1	0	18	20	10.0	17.54	20	12.3									
C22	20	1	0	17.82	20	10.9	17.46	20	12.7									
C24	20	1	0	17.54	20	12.3	17.52	20	12.4									
C26	20	1	0	17.5	20	12.5	17.43	20	12.9									
C28	20	1	0	17.45	20	12.8	17.4	20	13.0									
C30	20	1	0	17.33	20	13.4	17.56	20	12.2									
C32	20	1	0	17.4	20	13.0	17.4	20	13.0									
C34	20	1	0	17.1	20	14.5	17.17	20	14.2									
C36	20	1	0	16.52	20	17.4	16.87	20	15.6									
C40	20	1	0	15.06	20	24.7*	15.29	20	23.6*									
C44	20	1	0	13.7	20	31.5*	15.1	20	24.5*									
Chlorobenzene	20	1	0	18.11	20	9.4	17.16	20	14.2									
O-Terphenyl	20	1	0	17.83	20	10.9	17.45	20	12.8									
Average Difference	20	1	0			12.5			14.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	7.20	(7.16 - 7.24)	7.20	(7.16 - 7.24)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD26715-001
Client Id: SB-006SS(14-16)
Data File: 13M22819.D
Analysis Date: 10/18/21 10:37
Date Rec/Extracted: 10/16/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.42g:10ml
Final Vol: NA
Dilution: 92.3
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	27	U				

Worksheet #: 614816 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-18-21\
Data File : 13M22819.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2021 10:37
Operator : JM
Sample : AD26715-001
Misc : M,MEXT!2
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 14:50:30 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

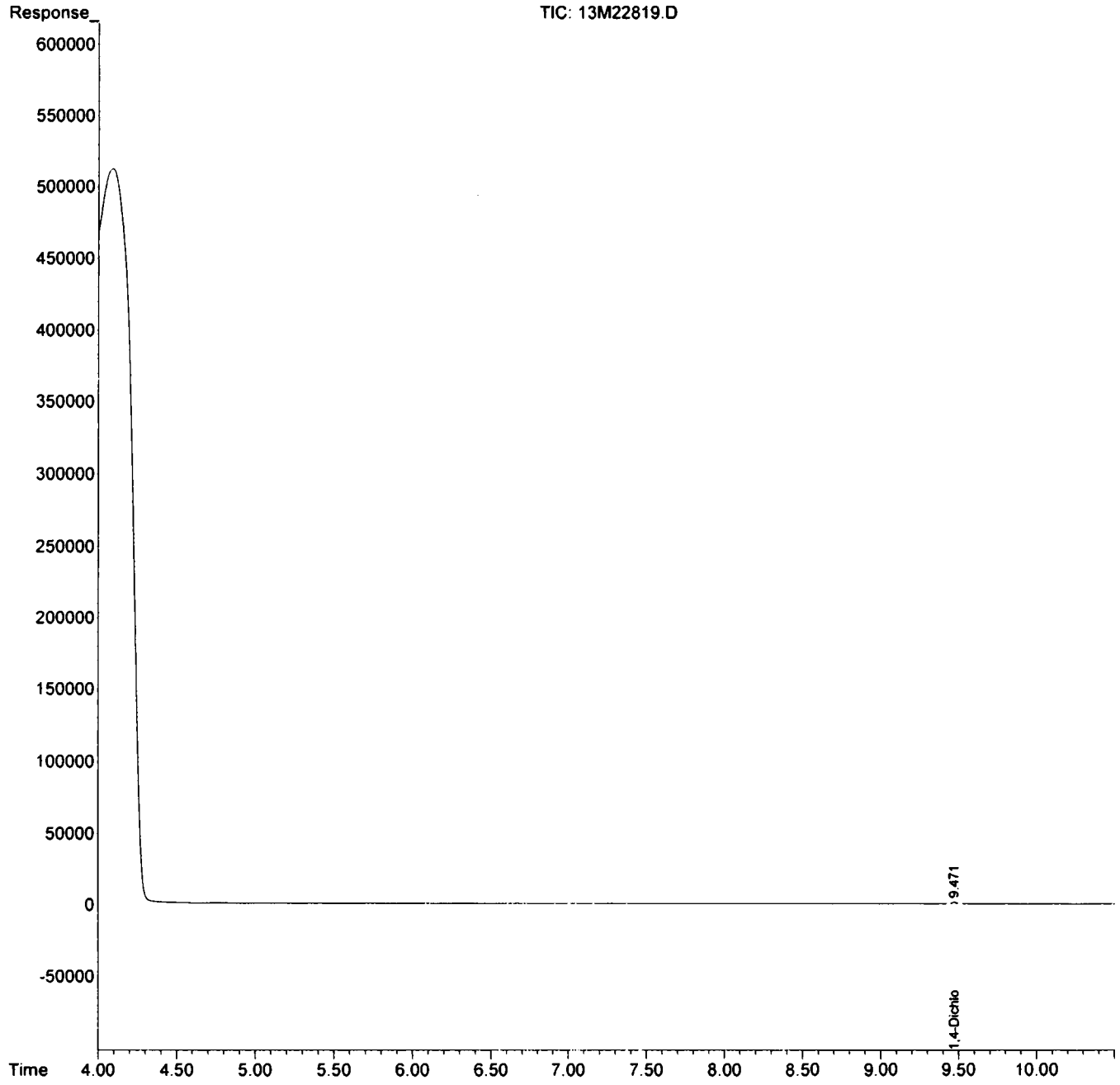
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.471	19299	23.921	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-18-21\
Data File : 13M22819.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2021 10:37
Operator : JM
Sample : AD26715-001
Misc : M,MEXT!2
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 14:50:30 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD26715-002
Client Id: SB-005SS(2-4)
Data File: 13M22820.D
Analysis Date: 10/18/21 10:54
Date Rec/Extracted: 10/16/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 1.65g:10ml
Final Vol: NA
Dilution: 303
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	85	370				

Worksheet #: 614816

Total Target Concentration 370

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-18-21\
Data File : 13M22820.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2021 10:54
Operator : JM
Sample : AD26715-002
Misc : M,MEXT!2
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 14:50:17 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

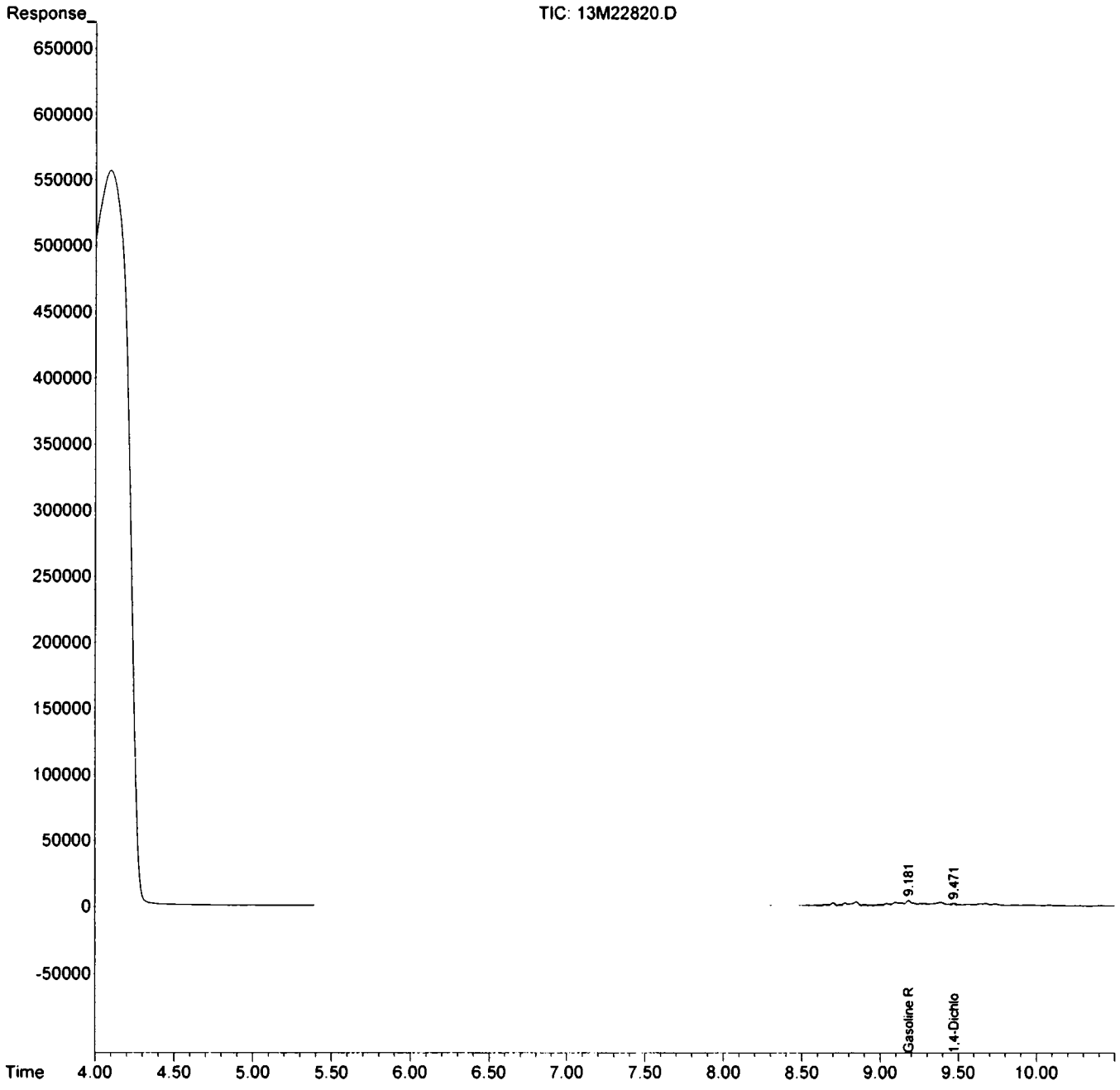
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.471	24399	30.242		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		d
4)g	Gasoline Range Organics	9.181	630502	1097.171	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-18-21\
Data File : 13M22820.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2021 10:54
Operator : JM
Sample : AD26715-002
Misc : M,MEXT!2
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 14:50:17 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M22813.D
Analysis Date: 10/18/21 08:58
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 614816

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-18-21\
Data File : 13M22813.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2021 8:58
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 14:50:42 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

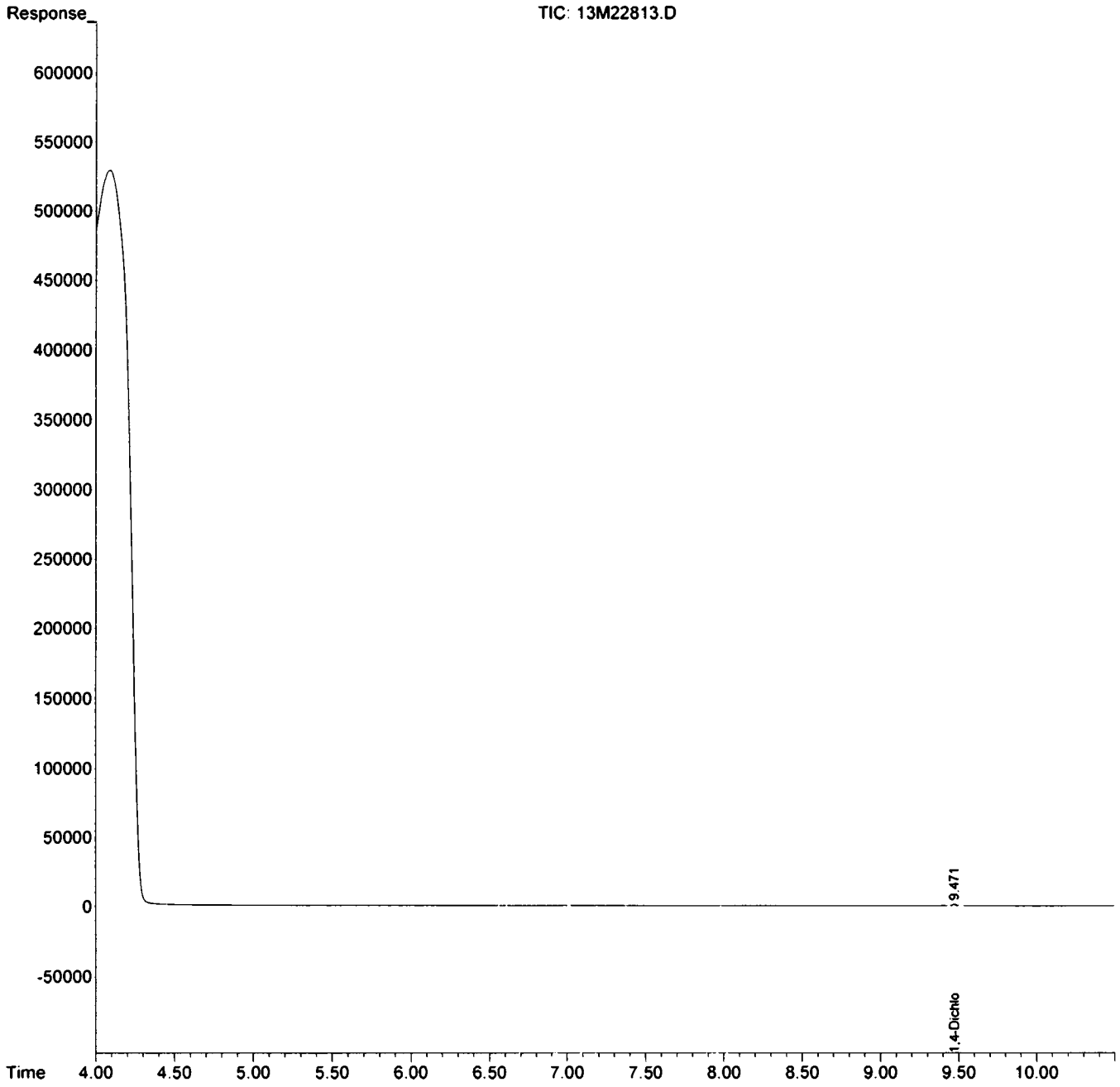
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.471	19558	24.242	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-18-21\
Data File : 13M22813.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2021 8:58
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 14:50:42 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M22781.D	DAILY BLANK	M	10/15/21 10:27	1		85					
13M22813.D	DAILY BLANK	M	10/18/21 08:58	1		81					
13M22819.D	AD26715-001	M	10/18/21 10:37	1		80					
13M22820.D	AD26715-002	M	10/18/21 10:54	1		101					
13M22786.D	MBS96981	M	10/15/21 11:50	1		107					
13M22791.D	AD26587-003	M	10/15/21 13:13	1		88					
13M22814.D	MBS96985	M	10/18/21 09:15	1		105					
13M22825.D	AD26587-003(MS)	M	10/18/21 12:17	1		103					
13M22826.D	AD26587-003(MSD)	M	10/18/21 12:34	1		101					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS96981

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22786.D	MBS96981	10/15/2021 11:50:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2592.66	0	2000	130	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS96985

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22814.D	MBS96985	10/18/2021 9:15:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2383.61	0	2000	119	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS96985

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22825.D	AD26587-003(MS)	10/18/2021 12:17:00 P
Non Spike(If applicable):	13M22791.D	AD26587-003	10/15/2021 1:13:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2349.98	0	2000	117	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22826.D	AD26587-003(MSD)	10/18/2021 12:34:00 P
Non Spike(If applicable):	13M22791.D	AD26587-003	10/15/2021 1:13:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2356.09	0	2000	118	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS96985

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22826.D	AD26587-003(MSD)	10/18/2021 12:34:00 P
Duplicate(If applicable):	13M22825.D	AD26587-003(MS)	10/18/2021 12:17:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2356.09	2349.98	0.26	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M22781.D
Matrix: Methanol

Blank Analysis Date: 10/15/21 10:27
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
MBS96981	13M22786.D	10/15/21 11:50
AD26587-003	13M22791.D	10/15/21 13:13

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M22813.D
Matrix: Methanol

Blank Analysis Date: 10/18/21 08:58
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26715-001	13M22819.D	10/18/21 10:37
AD26715-002	13M22820.D	10/18/21 10:54
AD26587-003(MSD	13M22826.D	10/18/21 12:34
AD26587-003(MS)	13M22825.D	10/18/21 12:17
MBS96985	13M22814.D	10/18/21 09:15

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22741.D	250PPB	10/14/21 10:47	Aqueous					
13M22746.D	BLK	10/14/21 12:20	Aqueous					
13M22747.D	250PPB	10/14/21 12:37	Aqueous					
13M22750.D	BLK	10/14/21 13:50	Aqueous					
13M22762.D	BLK	10/14/21 17:12	Aqueous					
13M22763.D	BLK	10/14/21 17:28	Aqueous					
13M22764.D	CAL @ 250PPB	10/14/21 17:45	Aqueous	13M2277	9.4618	0.0994		
13M22765.D	CAL @ 500PPB	10/14/21 18:01	Aqueous	13M2277	9.4569	0.0476		
13M22766.D	CAL @ 750PPB	10/14/21 18:18	Aqueous	13M2277	9.4654	0.1374		
13M22767.D	CAL @ 1000PPB	10/14/21 18:34	Aqueous	13M2277	9.4625	0.1068		
13M22768.D	CAL @ 1500PPB	10/14/21 18:51	Aqueous	13M2277	9.4633	0.1152		
13M22769.D	CAL @ 2000PPB	10/14/21 19:07	Aqueous	13M2277	9.4578	0.0571		
13M22770.D	CAL @ 4000PPB	10/14/21 19:24	Aqueous	13M2277	9.4524	0		
13M22771.D	BLK	10/14/21 19:40	Aqueous	13M2277	9.4568	0.0465		
13M22772.D	BLK	10/14/21 19:56	Aqueous	13M2277	9.4565	0.0434		
13M22773.D	ICV	10/14/21 20:13	Aqueous	13M2277	9.4588	0.0677		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22778.D	CAL @ 2000PPB	10/15/21 09:37	Aqueous	13M2277	9.4865	0		
13M22781.D	DAILY BLANK	10/15/21 10:27	Methanol	13M2277	9.4939	0.078		
13M22782.D	AD26615-001	10/15/21 10:44	Methanol	13M2277	9.4753	0.1181		
13M22783.D	STD	10/15/21 11:00	Methanol	13M2277	9.4725	0.1477		
13M22784.D	26554-011	10/15/21 11:17	Methanol	13M2277	9.4793	0.0759		
13M22785.D	26554-011	10/15/21 11:34	Methanol	13M2277	0.0000	200		
13M22786.D	MBS96981	10/15/21 11:50	Methanol	13M2277	9.4818	0.0496		
13M22787.D	BLK	10/15/21 12:07	Methanol	13M2277	9.4804	0.0643		
13M22788.D	BLK	10/15/21 12:23	Methanol	13M2277	0.0000	200		
13M22789.D	AD26587-001	10/15/21 12:40	Methanol	13M2277	9.4819	0.0485		
13M22790.D	AD26587-002	10/15/21 12:57	Methanol	13M2277	9.4884	0.02		
13M22791.D	AD26587-003	10/15/21 13:13	Methanol	13M2277	9.4910	0.0474		
13M22792.D	AD26587-004	10/15/21 13:30	Methanol	13M2277	9.4898	0.0348		
13M22793.D	AD26587-005	10/15/21 13:47	Methanol	13M2277	9.4912	0.0495		
13M22794.D	AD26587-006	10/15/21 14:03	Methanol	13M2277	9.4975	0.1159		
13M22795.D	AD26587-007	10/15/21 14:20	Methanol	13M2277	9.4904	0.0411		
13M22796.D	AD26587-008	10/15/21 14:36	Methanol	13M2277	9.4810	0.058		
13M22797.D	AD26587-009	10/15/21 14:53	Methanol	13M2277	9.4906	0.0432		
13M22798.D	AD26587-010	10/15/21 15:10	Methanol	13M2277	9.4991	0.1327		
13M22799.D	AD26669-001	10/15/21 15:26	Methanol	13M2277	9.4952	0.0917		
13M22800.D	AD26554-011(MS)	10/15/21 15:43	Methanol	13M2277	9.4833	0.0337		
13M22801.D	AD26554-011(MSD)	10/15/21 15:59	Methanol	13M2277	9.4796	0.0728		
13M22802.D	BLK	10/15/21 16:16	Methanol	13M2277	9.4801	0.0675		
13M22803.D	CAL @ 2000PPB	10/15/21 16:33	Aqueous	13M2277	9.4749	0.1223		
13M22804.D	2000PPB	10/15/21 16:49	Aqueous	13M2280	9.4703	0.0486		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22809.D	CAL @ 2000PPB	10/18/21 07:52	Aqueous	13M2280	9.4686	0		
13M22810.D	2000PPB	10/18/21 08:09	Aqueous	13M2280	9.4678	0.0085		
13M22811.D	BLK	10/18/21 08:25	Methanol	13M2280	9.4741	0.0581		
13M22812.D	BLK	10/18/21 08:42	Methanol	13M2280	9.4731	0.0475		
13M22813.D	DAILY BLANK	10/18/21 08:58	Methanol	13M2280	9.4711	0.0264		
13M22814.D	MBS96985	10/18/21 09:15	Methanol	13M2280	9.4744	0.0612		
13M22815.D	26587-003	10/18/21 09:31	Methanol	13M2280	9.4725	0.0412		
13M22816.D	26587-003	10/18/21 09:48	Methanol	13M2280	9.4765	0.0834		
13M22817.D	BLK	10/18/21 10:04	Aqueous	13M2280	9.4721	0.037		
13M22818.D	BLK	10/18/21 10:21	Aqueous	13M2280	9.4825	0.1467		
13M22819.D	AD26715-001	10/18/21 10:37	Methanol	13M2280	9.4714	0.0296		
13M22820.D	AD26715-002	10/18/21 10:54	Methanol	13M2280	9.4706	0.0211		
13M22821.D	26686-007	10/18/21 11:11	Methanol	13M2280	9.4721	0.037		
13M22822.D	BLK	10/18/21 11:27	Methanol	13M2280	9.4722	0.038		
13M22823.D	BLK	10/18/21 11:44	Methanol	13M2280	9.4714	0.0296		
13M22824.D	2000PPB	10/18/21 12:01	Aqueous	13M2280	9.4727	0.0433		
13M22825.D	AD26587-003(MS)	10/18/21 12:17	Methanol	13M2280	9.4745	0.0623		
13M22826.D	AD26587-003(MSD)	10/18/21 12:34	Methanol	13M2280	9.4724	0.0401		
13M22827.D	CAL @ 2000PPB	10/18/21 12:50	Aqueous	13M2280	9.4763	0.0813		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101601 0167

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M22770.	CAL @ 4000PPB	10/14/21 19:24	2	13M22769.	CAL @ 2000PPB	10/14/21 19:07
3	13M22768.	CAL @ 1500PPB	10/14/21 18:51	4	13M22767.	CAL @ 1000PPB	10/14/21 18:34
5	13M22766.	CAL @ 750PPB	10/14/21 18:18	6	13M22765.	CAL @ 500PPB	10/14/21 18:01
7	13M22764.	CAL @ 250PPB	10/14/21 17:45				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1111	0.0908	0.0815	0.0763	0.0721	0.0678	0.0649	----	0.0807	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000	----	.0000900	5.44	0.998	0.998	19	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0014	0.0014	0.0012	0.0013	0.0012	0.0010	0.0009	----	0.00125	9.27	0.998	0.999	15	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0663	0.0648	0.0559	0.0569	0.0612	0.0496	0.0472	----	0.0575	8.51	0.997	0.998	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 33.1 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M22778.D			13M22803.D			13M22809.D			13M22827.D							
Method:			8015			8015			8015			8015							
Calibration Name:			CAL @ 2000PPB			CAL @ 2000PPB			CAL @ 2000PPB			CAL @ 2000PPB							
Calibration Date/Time			10/15/21 09:37			10/15/21 16:33			10/18/21 07:52			10/18/21 12:50							
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	
Gasoline Range Orga	20	1	0	2281	2000	14.1	2292	2000	14.6	2306	2000	15.3	1924	2000	3.8				

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26715-001	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-006SS(14-16)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/16/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	6.0	20	1	0.5	50	10/22/21	96470	S27785A3	38	P	PEICP3A
7439-92-1	Lead	6.0	64	1	0.5	50	10/22/21	96470	S27785A3	38	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26715-001	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-006SS(14-16)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/16/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.24	2.9	1	0.5	100	10/22/21	964712221ANEW		47	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	10/22/21	964712221ANEW		47	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26715-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-005SS(2-4)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/16/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.6	37	1	0.5	50	10/22/21	96470	S27785A3	39	P	PEICP3A
7439-92-1	Lead	5.6	15	1	0.5	50	10/22/21	96470	S27785A3	39	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26715-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-005SS(2-4)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/16/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.22	2.0	1	0.5	100	10/22/21	964712221ANEW		48	MS	MS3_7700SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	10/22/21	964712221ANEW		48	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96470 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96470 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-36-0	Antimony	2.0	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-38-2	Arsenic	2.0	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-41-7	Beryllium	0.60	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-42-8	Boron	10	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-43-9	Cadmium	0.60	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-09-7	Potassium	250	ND	1	0.5	50	10/25/21	96470	S27785A4	34	P	PEICPRAD4A
7440-22-4	Silver	0.75	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-23-5	Sodium	120	ND	1	0.5	50	10/25/21	96470	S27785A4	34	P	PEICPRAD4A
7440-28-0	Thallium	2.5	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-31-5	Tin	10	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-32-6	Titanium	5.0	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-62-2	Vanadium	5.0	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	10/22/21	96470	S27785A3	12	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96471 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96471 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	10/22/21	96471	2221ANEW	21	MS	1S3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/22/21
Data File: S27785A3
Prep Batch: 96470
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-356808-5	Rec	CCV V-356808-15	Rec	CCV V-356808-24	Rec	CCV V-356808-34	Rec	CCV V-356808-44	Rec		Rec		Rec		Rec
Aluminum	5/5	5.09080	102	5.01493	100	4.98557	100	4.96103	99	4.94489	99						
Barium	.5/.5	0.50439	101	0.50340	101	0.49838	100	0.49626	99	0.49483	99						
Calcium	50/50	52.33370	105	51.57100	103	52.11770	104	52.35430	105	51.22260	102						
Chromium	.5/.5	0.51158	102	0.51438	103	0.50777	102	0.50488	101	0.50111	100						
Cobalt	.5/.5	0.50092	100	0.49424	99	0.50204	100	0.49225	98	0.49382	99						
Copper	.5/.5	0.51098	102	0.50015	100	0.49541	99	0.49265	99	0.49200	98						
Iron	5/5	5.04732	101	5.04846	101	5.02341	100	5.01287	100	5.01845	100						
Lead	.5/.5	0.50954	102	0.50230	100	0.50773	102	0.49180	98	0.49874	100						
Magnesium	50/50	51.24000	102	51.53900	103	51.29510	103	50.97820	102	51.30050	103						
Manganese	.5/.5	0.50468	101	0.50404	101	0.50010	100	0.49641	99	0.49581	99						
Nickel	.5/.5	0.50261	101	0.49795	100	0.50571	101	0.49294	99	0.49414	99						
Vanadium	.5/.5	0.51514	103	0.51785	104	0.51386	103	0.50535	101	0.49966	100						
Zinc	.5/.5	0.52252	105	0.51466	103	0.52172	104	0.50762	102	0.51189	102						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 10/22/21
Data File: S27785A3
Prep Batch: 96470
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-356809	Recovery	Low Limit	High Limit		LRS Spike Amount	LRS V-356810	Recovery	Low Limit	High Limit
Magnesium	5.0	5.08633	102	80	120		500	476.115	95	90	110
Aluminum	2.0	1.97644	99	80	120		500	471.114	94	90	110
Arsenic	0.04	0.0394788	99	80	120		10	9.91800	99	90	110
Boron	0.2	0.183069	92	80	120		5	4.50014	90	90	110
Barium	0.1	0.103296	103	80	120		10	9.79615	98	90	110
Beryllium	0.012	0.0133940	112	80	120		5	4.59859	92	90	110
Calcium	10	9.99475	100	80	120		500	455.951	91	90	110
Cadmium	0.012	0.0133296	111	80	120		5	4.78355	96	90	110
Cerium	0.2	0.165	82	80	120		25	22.40	90	90	110
Cobalt	0.025	0.0259048	104	80	120		5	4.51348	90	90	110
Chromium	0.05	0.0525045	105	80	120		10	9.55486	96	90	110
Copper	0.05	0.0483511	97	80	120		10	10.0918	101	90	110
Silver	0.015	0.0148012	99	80	120		1	1.07644	108	90	110
Potassium	NA	-28.1400		80	120		200	415.959	208 a	90	110
Zinc	0.1	0.0974106	97	80	120		10	9.35168	94	90	110
Manganese	0.1	0.0999555	100	80	120		10	9.58395	96	90	110
Molybdenum	0.025	0.0254126	102	80	120		10	9.18761	92	90	110
Sodium	NA	2.70056		80	120		1000	1161.47	116 a	90	110
Nickel	0.05	0.0510944	102	80	120		10	8.94581	89 a	90	110
Lead	0.05	0.0527070	105	80	120		10	9.47434	95	90	110
Antimony	0.04	0.0398346	100	80	120		5	5.09040	102	90	110
Selenium	0.05	0.0486552	97	80	120		5	4.66732	93	90	110
Silicon	0.2	0.204265	102	80	120		25	24.8429	99	90	110
Tin	0.2	0.206507	103	80	120		10	9.67604	97	90	110
Titanium	0.1	0.0985527	99	80	120		10	9.88968	99	90	110
Thallium	0.05	0.0571588	114	80	120		5	4.79473	96	90	110
Vanadium	0.1	0.100593	101	80	120		10	9.96485	100	90	110
Iron	2.0	2.00574	100	80	120		400	369.767	92	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria.

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/22/21
Data File: S102221ANEW
Prep Batch: 96471
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360001-9	Rec	CCV V-360005-19	Rec	CCV V-360005-31	Rec	CCV V-360005-43	Rec	CCV V-360005-54	Rec		Rec		Rec		Rec
Antimony	50/50	49.00600	98	49.64800	99	51.13700	102	49.38900	99	48.76000	98						
Arsenic	50/50	48.45300	97	49.06500	98	48.98500	98	47.94900	96	48.84500	98						
Beryllium	50/50	49.63400	99	47.79000	96	48.55500	97	46.36000	93	47.85400	96						
Cadmium	50/50	48.21800	96	48.86900	98	49.32100	99	48.00300	96	47.37000	95						
Selenium	50/250	47.98100	96	241.34200	97	240.95400	96	234.43700	94	240.18600	96						
Silver	10/50	9.70900	97	49.48800	99	49.65500	99	48.26900	97	48.23400	96						
Thallium	50/50	47.50400	95	50.19800	100	51.59100	103	51.06100	102	49.55100	99						
Vanadium	50/50	46.04900	92	48.13600	96	47.50000	95	46.54400	93	47.79000	96						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 10/22/21
Data File: S102221ANEW
Prep Batch: 96471
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360006	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360004	Recovery	Low Limit	High Limit
Magnesium	500	490.705	98	80	120	50000	48577.098	97	90	110
Aluminum	500	497.490	99	80	120	15000	14639.766	98	90	110
Arsenic	1	1.008	101	80	120	500	498.517	100	90	110
Barium	5	5.004	100	80	120	500	484.900	97	90	110
Beryllium	1	1.036	104	80	120	500	488.255	98	90	110
Calcium	500	518.448	104	80	120	50000	50477.747	101	90	110
Cadmium	2	1.978	99	80	120	500	502.594	101	90	110
Cobalt	2	1.928	96	80	120	500	478.662	96	90	110
Chromium	2	2.032	102	80	120	500	486.407	97	90	110
Copper	10	10.424	104	80	120	500	479.966	96	90	110
Silver	1	0.989	99	80	120	500	109.520	22 a	90	110
Potassium	500	516.783	103	80	120	50000	49590.137	99	90	110
Zinc	20	21.376	107	80	120	500	492.953	99	90	110
Manganese	6	6.142	102	80	120	500	488.982	98	90	110
Molybdenum	1	1.022	102	80	120	500	498.769	100	90	110
Sodium	500	514.949	103	80	120	50000	49133.271	98	90	110
Nickel	3	3.041	101	80	120	500	487.864	98	90	110
Lead	2	1.955	98	80	120	500	467.265	93	90	110
Antimony	4	3.926	98	80	120	500	489.538	98	90	110
Selenium	10	9.832	98	80	120	2500	2442.219	98	90	110
Thallium	2	1.995	100	80	120	500	482.848	97	90	110
Vanadium	1	0.982	98	80	120	500	492.891	99	90	110
Iron	500	508.869	102	80	120	50000	48911.814	98	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/22/21
Data File: S27785A3
Prep Batch: 96470
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-352951-6	CCB V-352951-16	CCB V-352951-25	CCB V-352951-35	CCB V-352951-45	MB 96470 (100)-12		
Aluminum	1 U	2 U	2 U	2 U	2 U	100 U		
Barium	.05 U	.1 U	.1 U	.1 U	.1 U	5U		
Calcium	5 U	10 U	10 U	10 U	10 U	500 U		
Chromium	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Cobalt	.0125 U	.025 U	.025 U	.025 U	.025 U	1.3U		
Copper	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Iron	1 U	2 U	2 U	2 U	2 U	100 U		
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Magnesium	2.5 U	5 U	5 U	5 U	5 U	250 U		
Manganese	.05 U	.1 U	.1 U	.1 U	.1 U	5U		
Nickel	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Vanadium	.05 U	.1 U	.1 U	.1 U	.1 U	5U		
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	5U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/22/21
Data File: S102221ANEW
Prep Batch: 96471
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360002-11	CCB V-360002-20	CCB V-360002-32	CCB V-360002-44	CCB V-360002-55	MB 96471-21		
Antimony	2U	4U	4U	4U	4U	400U		
Arsenic	.5U	1U	1U	1U	1U	100U		
Beryllium	.5U	1U	1U	1U	1U	100U		
Cadmium	1U	2U	2U	2U	2U	200U		
Selenium	5U	10U	10U	10U	10U	1000U		
Silver	.5U	1U	1U	1U	1U	100U		
Thallium	1U	2U	2U	2U	2U	200U		
Vanadium	.5U	1U	1U	1U	1U	100U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/22/21
Data File: S27785A3
Prep Batch: 96470
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-352957-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	514.139	103							
Barium	0	U								
Calcium	500	502.067	100							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	198.232	99							
Lead	0	U								
Magnesium	500	505.954	101							
Manganese	0	U								
Nickel	0	U								
Vanadium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/22/21
Data File: S102221ANEW
Prep Batch: 96471
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1101601

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360003-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	49830.64	100							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	154300	103							
Iron	125000	125728.4	101							
Magnesium	50000	49399.99	99							
Selenium	0	U								
Silver	0	U								
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 96470

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96470

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96470	1	S27785A3	14	0.6595	.734	90		67	125
Lead	96470	1	S27785A3	14	1.6614	1.86	89		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96470

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96470	1	S27785A3	13	0.6615	.734	90		67	125
Lead	96470	1	S27785A3	13	1.6647	1.86	89		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD26738-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96470	1	S27785A3	20	S27785A3	17	0.6931	0.2374	0.5	91		75	125
Lead	96470	1	S27785A3	20	S27785A3	17	1.0928	0.5616	0.5	106		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD26738-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96470	1	S27785A3	19	S27785A3	17	0.7454	0.2374	0.5	102		75	125
Lead	96470	1	S27785A3	19	S27785A3	17	1.5028	0.5616	0.5	188	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 96470

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS | Matrix: SOIL | SampleID: AD26738-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S27785A3	21	S27785A3	17	0.7000	0.2374	0.50	93		75	125
Lead	1	S27785A3	21	S27785A3	17	1.0032	0.5616	0.50	88		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 96471

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96471

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96471	1	S102221A	23	222.1700	225	99		65	121
Cadmium	96471	1	S102221A	23	254.8050	249	102		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96471

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96471	1	S102221A	22	222.3290	225	99		65	121
Cadmium	96471	1	S102221A	22	251.2300	249	101		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD26738-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96471	1	S102221A	28	S102221A	24	242.2520	23.1750	250	88		75	125
Cadmium	96471	1	S102221A	28	S102221A	24	230.9380	2U	250	92		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD26738-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96471	1	S102221A	27	S102221A	24	235.4090	23.1750	250	85		75	125
Cadmium	96471	1	S102221A	27	S102221A	24	223.8280	2U	250	90		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH:96471

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD26738-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S102221A	29	S102221A	24	69.5990	23.1750	50	93		75	125
Cadmium	1	S102221A	29	S102221A	24	48.9550	2U	50	98		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96470

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR | Matrix: SOIL | SampleID: LCS MR 96470

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96470	S27785A3	14	S27785A3	13	0.6595	0.6615	.31		20
Lead	96470	S27785A3	14	S27785A3	13	1.6614	1.6647	.2		20

TxtQcType: MR | Matrix: SOIL | SampleID: AD26738-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96470	S27785A3	18	S27785A3	17	0.2797	0.2374	16		20
Lead	96470	S27785A3	18	S27785A3	17	0.9718	0.5616	54	a	20

TxtQcType: MSD | Matrix: SOIL | SampleID: AD26738-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96470	S27785A3	20	S27785A3	19	0.6931	0.7454	7.3		20
Lead	96470	S27785A3	20	S27785A3	19	1.0928	1.5028	32	a	20

TxtQcType: SD | Matrix: SOIL | SampleID: AD26738-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	96470	S27785A3	22	S27785A3	17	5	0.0441	0.2374	7.1		10
Lead	96470	S27785A3	22	S27785A3	17	5	0.1187	0.5616	5.7		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96471

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR | Matrix: SOIL | SampleID: LCS MR 96471

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96471	S102221A	23	S102221A	22	222.1700	222.3290	.072	20
Cadmium	96471	S102221A	23	S102221A	22	254.8050	251.2300	1.4	20

TxtQcType: MR | Matrix: SOIL | SampleID: AD26738-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96471	S102221A	25	S102221A	24	20.5580	23.1750	12	20
Cadmium	96471	S102221A	25	S102221A	24	2U	2U	---	20

TxtQcType: MSD | Matrix: SOIL | SampleID: AD26738-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96471	S102221A	28	S102221A	27	242.2520	235.4090	2.9	20
Cadmium	96471	S102221A	28	S102221A	27	230.9380	223.8280	3.1	20

TxtQcType: SD | Matrix: SOIL | SampleID: AD26738-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Arsenic	96471	S102221A	26	S102221A	24	5	4.6960	23.1750	1.3	20
Cadmium	96471	S102221A	26	S102221A	24	5	0.2960	1.4240	3.9	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 17785 Analyst: ANS

QC Number: 96470 Prep Date: 10/22/21

Matrix: Soil Reviewed By: DL

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	Soil	Soil				–	
LCS	0.5g					–	
LCSD						–	
1 AD26738-001							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -001							
MR -001							
MS -001							Balance used: 039
MSD -001							Pipettes used: 153, 149
2. 26764-003							
3. 26768-001							Hot Block used: 4
4. 26770-001							
5. 26739-001							
6. 26795-001							
7. -002							
8. 26692-001							
9. -002							
10. -003							
11. -004							
12. -006							
13. 26715-001							
14. -002							
15. 26778002							
16. -004							
17. -006							
18. 26765-001							
19.							
20.							

Hot Plate Temperature: 93.3 C (90-95° C) Start Time: 8:00am End Time: 11:40am

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 13729, 13730
LLMS, LLMSD		V- 358096

Acid	Vol mL	Lot#
HNO_3	2.5	V-14216
HCl	5.0	V-14217
H_2O_2	1.5	V-14101

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359914
1:1 HCl		V-

Relinquished By ANS Date 10/22/21

Received By DL Date 10/25/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 27786 Analyst: AMS

QC Number: 96471 Prep Date: 10/22/21

Matrix: Soil 6020 Reviewed By: R

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		--	
LCS	0.1g					--	
LCSD	1					--	
1. 10 26738-001	0.5g						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR -001							
MS -001							Balance used: 039
MSD -001							Pipettes used: 153, 149
2. 26764-003							
3. 26768-001							Hot Block used: 4
4. 26770-001							
5. 26739-001							
6. 26795-001							
7. -002							
8. 26692-001							
9. -002							
10. -003							
11. -004							
12. -006							
13. 26715-001							
14. -002							
15. 26778-002							
16. -004							
17. -006							
18.							
19.							
20.							

Hot Plate Temperature: 93 C (90-95° C) Start Time: 8:00am End Time: 11:20am

	Volume mL	Lot #
LCS, LCSD	0.1g	V-14201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V-13729, 13730
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-14216
HCl	1.0	V-14217
H_2O_2	1.5	V-14101

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By AMS Date 10/22/21

Received By R Date 10/22/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27785A3.txt

Analysis Date: 10/22/21 **Instrument:** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-352951	1	CAL	11:36	1							V-352951(ICB/CCB)
CALST2 V-356809	1	CAL	11:39	2							V-356809(LLICV/LLCCV soil)
CALST3 V-356806	1	CAL	11:43	3							V-356806(ICS3 - Middle Std)
CALST4 V-356807	1	CAL	11:46	4							V-356807(ICS4 High std)
ICV V-356808	1	ICV	11:50	5							V-356808(CCV)
ICB V-352951	1	ICB	11:53	6							V-352951(ICB/CCB)
LRS V-356810	1	LRS	11:56	7		SOIL	SOIL	SW846	96470		V-356810(LRS)
ICS3 V-356806	1	ICS	12:01	8							V-356806(ICS3 - Middle Std)
RINSE	1	NA	12:04	9		SOIL	SOIL	SW846	96470		()
LLICV V-356809	1	LLICV	12:08	10		SOIL	SOIL	SW846	96470		V-356809(LLICV/LLCCV soil)
ICSA V-352957	1	ICSA	12:12	11							V-352957(ICSA)
MB 96470 (100)	1	MB	12:16	12		SOIL	SOIL	SW846	96470		()
LCS 96470	1	LCS	12:20	13		SOIL	SOIL	SW846	96470		()
LCS MR 96470	1	LCS	12:24	14		SOIL	SOIL	SW846	96470		()
CCV V-356808	1	CCV	12:28	15							V-356808(CCV)
CCB V-352951	1	CCB	12:31	16							V-352951(ICB/CCB)
AD26738-001	1	SMP	12:35	17	SRSMETALS-S	SOIL	SOIL	SW846	96470		()
AD26738-001	1	MR	12:39	18	SRSMETALS-S	SOIL	SOIL	SW846	96470		()
AD26738-001	1	MS	12:43	19	SRSMETALS-S	SOIL	SOIL	SW846	96470		()
AD26738-001	1	MSD	12:48	20	SRSMETALS-S	SOIL	SOIL	SW846	96470		()
AD26738-001	1	PS	12:52	21	SRSMETALS-S	SOIL	SOIL	SW846	96470		()
AD26738-001	5	SD	12:57	22	SRSMETALS-S	SOIL	SOIL	SW846	96470		()
AD26764-003	1	SMP	13:00	23	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
CCV V-356808	1	CCV	13:04	24							V-356808(CCV)
CCB V-352951	1	CCB	13:07	25							V-352951(ICB/CCB)
AD26768-001	1	SMP	13:11	26	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
AD26770-001	1	SMP	13:15	27	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
AD26739-001	1	SMP	13:19	28	SRSMETALS-S	SOIL	SOIL	SW846	96470		()
AD26795-001	1	SMP	13:22	29	MET-PP6010S	SOIL	SOIL	SW846	96470	Fe>LRS not reported	()
AD26795-002	1	SMP	13:27	30	MET-PP6010S	SOIL	SOIL	SW846	96470		()
AD26692-001	1	SMP	13:31	31	MET-1-SOIL	SOIL	SOIL	SW846	96470		()
AD26692-002	1	SMP	13:35	32	MET-1-SOIL	SOIL	SOIL	SW846	96470		()
AD26692-003	1	SMP	13:38	33	MET-1-SOIL	SOIL	SOIL	SW846	96470		()
CCV V-356808	1	CCV	13:41	34							V-356808(CCV)
CCB V-352951	1	CCB	13:45	35							V-352951(ICB/CCB)
AD26692-004	1	SMP	13:48	36	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
AD26692-006	1	SMP	13:52	37	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
AD26715-001	1	SMP	13:56	38	MET-RCRA-S	SOIL	SOIL	SW846	96470		()
AD26715-002	1	SMP	14:00	39	MET-RCRA-S	SOIL	SOIL	SW846	96470		()
AD26778-002	1	SMP	14:04	40	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
AD26778-004	1	SMP	14:07	41	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
AD26778-006	1	SMP	14:10	42	MET-TAL6010S	SOIL	SOIL	SW846	96470		()
AD26765-001	1	SMP	14:13	43	PB-SOIL	SOIL	SOIL	SW846	96470	Zn,Ca>LRS not reported	()
CCV V-356808	1	CCV	14:17	44							V-356808(CCV)
CCB V-352951	1	CCB	14:20	45							V-352951(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 10/25/2021 7:45:46 AM

Run is Ok All elements reported except Na,K

10/27/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S102221ANEW.txt

Analysis Date: 10/22/21 **Instrument:** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	10:44	1		SOIL	SOIL	SW846	96471		0
RINSE	1	NA	10:49	2		SOIL	SOIL	SW846	96471		0
CalBlk V-359995	1	ISBLK	10:53	3		SOIL	SOIL				V-359995(Cal Blk WARNING)
CalStd1 V-359996	1	CAL	10:58	4							V-359996(Cal Std-1 WARNING)
CalStd2 V-359997	1	CAL	11:02	5							V-359997(Cal Std-2 WARNING)
CalStd3 V-359998	1	CAL	11:07	6							V-359998(Cal Std-3 WARNING)
CalStd4 V-359999	1	CAL	11:11	7							V-359999(Cal Std-4 WARNING)
CalStd5 V-360000	1	CAL	11:15	8							V-360000(Cal Std-5 WARNING)
ICV V-360001	1	ICV	11:20	9							V-360001(ICV WARNING)
LLICV V-360006	1	LLICV	11:24	10	MET-TAL6020S	SOIL	SOIL	SW846	96471		V-360006(LL-ICV/CCV SOIL WARNING)
ICB V-360002	1	ICB	11:29	11							V-360002(ICB/CCB WARNING)
ICSA V-360003	1	ICSA	11:33	12							V-360003(ICSA WARNING)
RINSE	1	NA	11:38	13		SOIL	SOIL	SW846	96471		0
LRS V-360004	1	LRS	11:42	14	MET-TAL6020S	SOIL	SOIL	SW846	96471	Ag fail.	V-360004(LRS WARNING)
RINSE	1	NA	11:46	15		SOIL	SOIL	SW846	96471		0
RINSE	1	NA	11:51	16		SOIL	SOIL	SW846	96471		0
AD26796-001	2	SMP	11:55	17	MET-TAL6020S	SOIL	SOIL	SW846	96464	Report Ag, Cd, Sb.	0
RINSE	1	SMP	11:59	18		SOIL	SOIL	SW846	96471		0
CCV V-360005	1	CCV	12:04	19							V-360005(CCV WARNING)
CCB V-360002	1	CCB	12:08	20							V-360002(ICB/CCB WARNING)
MB 96471	1	MB	12:13	21	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
LCS 96471	1	LCS	12:17	22		SOIL	SOIL	SW846	96471		0
LCS MR 96471	1	LCS	12:21	23		SOIL	SOIL	SW846	96471		0
AD26738-001	1	SMP	12:25	24	MET-5-6020	SOIL	SOIL	SW846	96471		0
AD26738-001	1	MR	12:30	25	MET-5-6020	SOIL	SOIL	SW846	96471		0
AD26738-001	5	SD	12:34	26	MET-5-6020	SOIL	SOIL	SW846	96471		0
AD26738-001	1	MS	12:38	27	MET-5-6020	SOIL	SOIL	SW846	96471		0
AD26738-001	1	MSD	12:42	28	MET-5-6020	SOIL	SOIL	SW846	96471		0
AD26738-001	1	PS	12:47	29	MET-5-6020	SOIL	SOIL	SW846	96471		0
RINSE	1	NA	12:51	30		SOIL	SOIL	SW846	96471		0
CCV V-360005	1	CCV	12:55	31							V-360005(CCV WARNING)
CCB V-360002	1	CCB	13:00	32							V-360002(ICB/CCB WARNING)
AD26764-003	1	SMP	13:04	33	MET-TAL6020S	SOIL	SOIL	SW846	96471	Rerun V (LR).	0
AD26768-001	1	SMP	13:08	34	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
AD26770-001	1	SMP	13:13	35	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
AD26739-001	1	SMP	13:17	36	MET-5-6020	SOIL	SOIL	SW846	96471		0
AD26795-001	1	SMP	13:22	37	MET-PP6020S	SOIL	SOIL	SW846	96471		0
AD26795-002	1	SMP	13:26	38	MET-PP6020S	SOIL	SOIL	SW846	96471		0
AD26692-001	1	SMP	13:30	39	MET-1-6020	SOIL	SOIL	SW846	96471		0
AD26692-002	1	SMP	13:35	40	MET-1-6020	SOIL	SOIL	SW846	96471		0
AD26692-003	1	SMP	13:39	41	MET-1-6020	SOIL	SOIL	SW846	96471		0
RINSE	1	NA	13:43	42		SOIL	SOIL	SW846	96471		0
CCV V-360005	1	CCV	13:48	43							V-360005(CCV WARNING)
CCB V-360002	1	CCB	13:52	44							V-360002(ICB/CCB WARNING)
AD26692-004	1	SMP	13:57	45	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
AD26692-006	1	SMP	14:01	46	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
AD26715-001	1	SMP	14:05	47	MET-RCRA-MS	SOIL	SOIL	SW846	96471		0
AD26715-002	1	SMP	14:10	48	MET-RCRA-MS	SOIL	SOIL	SW846	96471		0
AD26778-002	1	SMP	14:14	49	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
AD26778-004	1	SMP	14:19	50	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
AD26778-006	1	SMP	14:23	51	MET-TAL6020S	SOIL	SOIL	SW846	96471		0
AD26764-003	3	SMP	14:27	52	MET-TAL6020S	SOIL	SOIL	SW846	96471	Report V.	0
RINSE	1	NA	14:32	53		SOIL	SOIL	SW846	96471		0

Comments/Reviewedby:

pcousineau
192.168.1.87 10/25/2021 11:34:06 AM

B-27781 Report Ag, Cd, Sb for 26796-001.
B-27786 Report Ag, As, Be, Cd, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb.
Rerun 26764-003 for V (over LR). PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 10 10/22 ren

Standard/Batch/SnCl2 Lot #:

10/27/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S102221ANEW.txt

Analysis Date: 10/22/21 **Instrument:** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CCV V-360005	1	CCV	14:36	54							V-360005(CCV WARNING)
CCB V-360002	1	CCB	14:40	55							V-360002(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 10/25/2021 11:34:06 AM

B-27781 Report Ag, Cd, Sb for 26796-001.
B-27786 Report Ag, As, Be, Cd, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb.
Reran 26764-003 for V (over LR). PC.

10/27/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: DP 10/22/21

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S102221AN Sample ID: CalBlk V-359995 Sample Date 10/22/21 Sample Time: 10:53

IS ID:	Area	Area Limit		
Ho-1	3014722.97	2110306.079	-	3919139.861
In-1	2945200.13	2061640.091	-	3828760.169
Sc-1	2164556.81	1515189.767	-	2813923.853
Tb-1	3293578.32	2305504.824	-	4281651.816

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-359995	3	3014722.	2945200.	2164556.	3293578.				
SMP	RINSE	1	3049176.	2940495.	2133624.	3290213.				
SMP	RINSE	2	3053910.	2943611.	2138079.	3304147.				
CAL	CalStd1 V-35999	4	3071211.	2989892.	2198027.	3299017.				
CAL	CalStd2 V-35999	5	3099609.	2985697.	2203918.	3371563.				
CAL	CalStd3 V-35999	6	3062836.	2978439.	2179820.	3331052.				
CAL	CalStd4 V-35999	7	3095219.	2950026.	2153093.	3349484.				
CAL	CalStd5 V-36000	8	3100510.	2930410.	2125845.	3337372.				
ICV	ICV V-360001	9	3143872.	2939964.	2106863.	3384916.				
LLICV	LLICV V-360006	10	3136786.	2964218.	2132707.	3385690.				
ICB	ICB V-360002	11	3063918.	2883809.	2092274.	3313034.				
ICSA	ICSA V-360003	12	3093796.	2783186.	2052565.	3333427.				
SMP	RINSE	13	3147979.	2972872.	2070095.	3399798.				
LRS	LRS V-360004	14	3132782.	2869368.	2112979.	3382764.				
SMP	RINSE	15	3161105.	2955000.	2055200.	3419139.				
SMP	RINSE	16	3134179.	2948691.	2052873.	3409609.				
SMP	AD26796-001	17	3247071.	3340906.	2639153.	3495332.				
SMP	RINSE	18	3241308.	2975163.	2040541.	3474658.				
CCV	CCV V-360005	19	3283636.	2992545.	2081017.	3501957.				
CCB	CCB V-360002	20	3214863.	2968196.	2074104.	3435039.				
MB	MB 96471	21	3202381.	2972068.	2084436.	3451894.				
LCS	LCS 96471	22	3347171.	3109488.	2271728.	3620355.				
MR	LCS MR 96471	23	3376389.	3058854.	2247740.	3663659.				
SMP	AD26738-001	24	3448477.	2924881.	2957526. *	3696441.				
MR	AD26738-001	25	3467323.	2921082.	2939080. *	3700902.				
SD	AD26738-001	26	3380147.	2991454.	2252826.	3618001.				
MS	AD26738-001	27	3409089.	2948109.	2898717. *	3676497.				
MSD	AD26738-001	28	3433209.	2935080.	2952308. *	3674623.				
PS	AD26738-001	29	3460488.	2877375.	2901543. *	3718549.				
SMP	RINSE	30	3253393.	2977418.	2050915.	3497748.				
CCV	CCV V-360005	31	3261443.	2964023.	2057419.	3480987.				
CCB	CCB V-360002	32	3201827.	2992789.	2080565.	3476380.				
SMP	AD26764-003	33	3445029.	2915119.	3645678. *	3672714.				
SMP	AD26768-001	34	3314131.	2944173.	2665540.	3570288.				
SMP	AD26770-001	35	3348154.	2926180.	2743616.	3614863.				
SMP	AD26739-001	36	3288224.	2863846.	2349582.	3528444.				
SMP	AD26795-001	37	3388354.	2887858.	4426753. *	3616614.				
SMP	AD26795-002	38	3360158.	2812124.	2830960. *	3585632.				
SMP	AD26692-001	39	3236825.	2900747.	2164275.	3488324.				
SMP	AD26692-002	40	3275587.	2894902.	2684824.	3529935.				
SMP	AD26692-003	41	3234328.	2859991.	2278730.	3483070.				
SMP	RINSE	42	3117161.	2804955.	1887841.	3352223.				
CCV	CCV V-360005	43	3207810.	2866231.	1929095.	3437897.				
CCB	CCB V-360002	44	3172973.	2844429.	1925218.	3379449.				
SMP	AD26692-004	45	3228307.	2844974.	2032571.	3458531.				
SMP	AD26692-006	46	3321900.	2860329.	2427732.	3544737.				
SMP	AD26715-001	47	3564342.	2754842.	2670316.	3797907.				
SMP	AD26715-002	48	3805724.	2894881.	3103627. *	4134456.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AD26778-002	49	3359111.	2932966.	2646320.	3588572.
SMP	AD26778-004	50	3357237.	3001561.	2727074.	3633903.
SMP	AD26778-006	51	3316751.	2997281.	2634497.	3559642.
SMP	AD26764-003	52	3285785.	2975706.	2632996.	3548293.
SMP	RINSE	53	3125687.	2920335.	2029971.	3393457.
CCV	CCV V-360005	54	3158065.	2967948.	2120655.	3417174.
CCB	CCB V-360002	55	3106843.	2927598.	2085208.	3369947.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S102221AN Sample ID: CalBlk V-359995 Sample Date 10/22/21 Sample Time: 10:53

IS ID:	Area	Area Limit		
Ho-2	2118280.89	1482796.623	-	2753765.157
In-2	824796.30	577357.41	-	1072235.19
Sc-2	111458.50	78020.95	-	144896.05
Tb-2	2191962.08	1534373.456	-	2849550.704

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-359995	3	2118280.	824796.3	111458.5	2191962.				
SMP	RINSE	1	2114699.	827807.5	111688.2	2203862.				
SMP	RINSE	2	2107183.	821845.6	111440.3	2175376.				
CAL	CalStd1 V-35999	4	2093780.	814251.9	112712.9	2182398.				
CAL	CalStd2 V-35999	5	2111543.	818683.9	110932.5	2194890.				
CAL	CalStd3 V-35999	6	2108456.	823490.3	110012.3	2197359.				
CAL	CalStd4 V-35999	7	2112712.	812161.2	108020.2	2185368.				
CAL	CalStd5 V-36000	8	2109170.	794088.2	107614.6	2170026.				
ICV	ICV V-360001	9	2111962.	799552.8	105337.6	2196645.				
LLICV	LLICV V-360006	10	2104417.	804885.5	106682.3	2186997.				
ICB	ICB V-360002	11	2099411.	804409.9	107443.5	2170939.				
ICSA	ICSA V-360003	12	2031112.	729674.4	101803.1	2113283.				
SMP	RINSE	13	2131254.	803132.6	104288.2	2197412.				
LRS	LRS V-360004	14	2063293.	757742.6	103490.7	2144124.				
SMP	RINSE	15	2112355.	803203.7	103275.9	2180999.				
SMP	RINSE	16	2120628.	806198.3	104561.3	2196869.				
SMP	AD26796-001	17	2135264.	897849.2	127450.0	2173733.				
SMP	RINSE	18	2137763.	801040.8	101160.7	2206051.				
CCV	CCV V-360005	19	2144056.	789744.8	104423.8	2221373.				
CCB	CCB V-360002	20	2137055.	812356.9	104691.5	2232277.				
MB	MB 96471	21	2151978.	804550.5	104692.1	2219387.				
LCS	LCS 96471	22	2191344.	798427.0	111787.3	2250246.				
MR	LCS MR 96471	23	2196711.	795966.5	111621.4	2258258.				
SMP	AD26738-001	24	2272162.	748522.4	147576.0 *	2319537.				
MR	AD26738-001	25	2227190.	752253.4	145846.2 *	2294786.				
SD	AD26738-001	26	2204544.	783597.0	110782.8	2273383.				
MS	AD26738-001	27	2182125.	738375.5	141534.3	2250456.				
MSD	AD26738-001	28	2166752.	733677.7	139512.9	2249118.				
PS	AD26738-001	29	2208248.	723619.9	140170.6	2274375.				
SMP	RINSE	30	2157590.	794597.9	101579.1	2219013.				
CCV	CCV V-360005	31	2132829.	781015.8	100487.2	2202010.				
CCB	CCB V-360002	32	2131982.	802563.8	103250.7	2202457.				
SMP	AD26764-003	33	2245808.	754775.4	185473.8 *	2292308.				
SMP	AD26768-001	34	2199802.	768256.1	132260.1	2285306.				
SMP	AD26770-001	35	2205071.	765671.2	136774.2	2278690.				
SMP	AD26739-001	36	2156774.	742775.9	115009.3	2212624.				
SMP	AD26795-001	37	2203285.	765227.3	244885.1 *	2283246.				
SMP	AD26795-002	38	2156288.	703864.8	137590.7	2207899.				
SMP	AD26692-001	39	2107735.	752802.6	102439.4	2174656.				
SMP	AD26692-002	40	2167482.	750195.9	133552.5	2239267.				
SMP	AD26692-003	41	2135136.	740609.5	111180.3	2205563.				
SMP	RINSE	42	2070039.	734980.0	89968.18	2134816.				
CCV	CCV V-360005	43	2049412.	743846.5	93163.11	2114918.				
CCB	CCB V-360002	44	2076247.	751213.8	93411.52	2130919.				
SMP	AD26692-004	45	2088036.	735591.2	98376.02	2153759.				
SMP	AD26692-006	46	2148439.	740775.0	120022.8	2212941.				
SMP	AD26715-001	47	2306788.	697783.5	128641.1	2355454.				
SMP	AD26715-002	48	2551797.	753494.4	158064.9 *	2611525.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AD26778-002	49	2188726.	748564.9	129326.4	2231710.
SMP	AD26778-004	50	2216342.	782763.0	135010.9	2301485.
SMP	AD26778-006	51	2176998.	773120.7	130362.3	2258144.
SMP	AD26764-003	52	2159300.	776067.2	130480.9	2231424.
SMP	RINSE	53	2105363.	780657.7	100057.7	2154186.
CCV	CCV V-360005	54	2131315.	792479.4	103755.3	2192516.
CCB	CCB V-360002	55	2092546.	793602.6	105442.5	2170508.

* Indicates Internal Standard Area outside of limits

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1101601**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD26715-001	SB-006SS(14-16)	Soil/Terracore	1	84	Percent			10/19/21	10/16/21	10/15/21
AD26715-002	SB-005SS(2-4)	Soil/Terracore	1	89	Percent			10/19/21	10/16/21	10/15/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12412

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD26711-006	95	95.32110	Percent	1.30	12.20	11.69	10/19/21	BEENA	0.28	5
Sample	AD26711-002	76	75.80488	Percent	1.30	11.55	9.07	10/19/21	BEENA		
Sample	AD26711-003	88	88.40996	Percent	1.30	11.74	10.53	10/19/21	BEENA		
Sample	AD26711-004	76	76.28676	Percent	1.28	12.16	9.58	10/19/21	BEENA		
Sample	AD26711-005	89	88.98216	Percent	1.28	10.81	9.76	10/19/21	BEENA		
Sample	AD26711-006	95	95.05208	Percent	1.29	8.97	8.60	10/19/21	BEENA		
Sample	AD26711-007	89	88.60435	Percent	1.27	9.08	8.19	10/19/21	BEENA		
Sample	AD26711-008	77	76.94257	Percent	1.29	13.13	10.40	10/19/21	BEENA		
Sample	AD26711-009	95	94.82759	Percent	1.29	10.57	10.09	10/19/21	BEENA		
Sample	AD26711-010	86	85.83062	Percent	1.30	7.44	6.57	10/19/21	BEENA		
Sample	AD26714-001	80	80.12999	Percent	1.29	12.06	9.92	10/19/21	BEENA		
Sample	AD26714-002	95	95.37275	Percent	1.30	12.97	12.43	10/19/21	BEENA		
Sample	AD26714-003	79	79.28854	Percent	1.30	13.95	11.33	10/19/21	BEENA		
Sample	AD26714-004	83	83.37875	Percent	1.29	19.64	16.59	10/19/21	BEENA		
Sample	AD26714-005	76	75.94869	Percent	1.31	20.02	15.52	10/19/21	BEENA		
Sample	AD26715-001	84	83.97177	Percent	1.30	11.22	9.63	10/19/21	BEENA		
Sample	AD26715-002	89	89.17995	Percent	1.30	10.08	9.13	10/19/21	BEENA		
Sample	AD26719-001	87	87.29730	Percent	1.29	12.39	10.98	10/19/21	BEENA		
Sample	AD26722-001	88	87.98842	Percent	1.29	8.20	7.37	10/19/21	BEENA		
Sample	AD26723-001	18	18.44311	Percent	1.29	9.64	2.83	10/19/21	BEENA		
Sample	AD26729-001	85	85.01071	Percent	1.27	10.61	9.20	10/19/21	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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Project: CSA WMATA

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Andres Acosta

Received Date: 10/19/2021

Report Date: 11/24/2021

Deliverables: MDE-R

Lab ID: AD26731

Lab Project No: 1101901

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1101901

Sample Summary

Client: Intertek-PSI
Project: CSA WMATA

HC Project #: 1101901

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD26731-001	SB-002SS1(16-18)	Soil/Terracore	10/18/2021	10/19/2021
AD26731-002	SB002SS2(18-20)	Soil/Terracore	10/18/2021	10/19/2021
AD26731-003	SB-001SS(4-6)	Soil/Terracore	10/18/2021	10/19/2021

HC Case Narrative

Client: Intertek
Project: CSA WMATA

HC Project: 1101901

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in samples AD26731-001, 002, 003 due to possible laboratory contamination.

The Method Blank Spike for batch 97012 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 97012 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD26731-002 had one or more surrogate recoveries outside QC limits. The sample was reanalyzed confirming recoveries outside QC limits due to matrix interference. The initial analysis is reported. Please refer to the applicable Form 2 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 95410 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	11/29/21 Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1101901

Project: CSA WMATA

Lab#: AD26731-001 **Sample ID: SB-002SS1(16-18)**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	69	870	EPA 8015D
Gasoline Range Organics	mg/kg	28	130	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	69	880	EPA 8015D
2-Butanone	mg/kg	0.0023	0.039	EPA 8260D
Acetone	mg/kg	0.011	0.24	EPA 8260D
Isopropylbenzene	mg/kg	0.0011	0.0062	EPA 8260D
Methylcyclohexane	mg/kg	0.0023	0.014	EPA 8260D
Methylene chloride	mg/kg	0.0023	0.0051	EPA 8260D
Dibenzofuran	mg/kg	0.0097	0.066	EPA 8270E
Fluorene	mg/kg	0.038	0.12	EPA 8270E

Lab#: AD26731-002 **Sample ID: SB002SS2(18-20)**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	230	2000	EPA 8015D
Gasoline Range Organics	mg/kg	27	390	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	230	2000	EPA 8015D
2-Butanone	mg/kg	0.0020	0.021	EPA 8260D
Acetone	mg/kg	0.010	0.11	EPA 8260D
Carbon disulfide	mg/kg	0.0034	0.0057	EPA 8260D
Methylcyclohexane	mg/kg	0.0020	0.038	EPA 8260D
Methylene chloride	mg/kg	0.0020	0.0031	EPA 8260D
2-Methylnaphthalene	mg/kg	0.22	0.31	EPA 8270E
Dibenzofuran	mg/kg	0.055	0.076	EPA 8270E

Lab#: AD26731-003 **Sample ID: SB-001SS(4-6)**

Analyte	Units	RL	Result	Analytical Method
Methylene chloride	mg/kg	0.0019	0.0022	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI
Project: CSA WMATA

HC Project #: 1101901

Sample ID: SB-002SS1(16-18)
Lab#: AD26731-001
Matrix: Soil/Terracore

Collection Date: 10/18/2021
Receipt Date: 10/19/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	69	870

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	98.4	mg/kg	28	130

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.038	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.038	ND
1,2-Diphenylhydrazine	1	mg/kg	0.038	ND
1,4-Dioxane	1	mg/kg	0.019	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.038	ND
2,4,5-Trichlorophenol	1	mg/kg	0.038	ND
2,4,6-Trichlorophenol	1	mg/kg	0.038	ND
2,4-Dichlorophenol	1	mg/kg	0.014	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.038	ND
2,6-Dinitrotoluene	1	mg/kg	0.038	ND
2-Chloronaphthalene	1	mg/kg	0.038	ND
2-Chlorophenol	1	mg/kg	0.038	ND
2-Methylnaphthalene	1	mg/kg	0.038	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.038	ND
2-Nitrophenol	1	mg/kg	0.038	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.038	ND
3-Nitroaniline	1	mg/kg	0.038	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.038	ND
4-Chloro-3-methylphenol	1	mg/kg	0.038	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.038	ND
4-Nitroaniline	1	mg/kg	0.038	ND
4-Nitrophenol	1	mg/kg	0.038	ND
Acenaphthene	1	mg/kg	0.038	ND
Acenaphthylene	1	mg/kg	0.038	ND
Acetophenone	1	mg/kg	0.038	ND
Anthracene	1	mg/kg	0.038	ND
Atrazine	1	mg/kg	0.038	ND
Benzaldehyde	1	mg/kg	0.42	ND
Benzidine	1	mg/kg	0.067	ND
Benzo[a]anthracene	1	mg/kg	0.038	ND

Sample ID: SB-002SS1(16-18) **Collection Date:** 10/18/2021
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Matrix: Soil/Terracore

Benzo[a]pyrene	1	mg/kg	0.038	ND
Benzo[b]fluoranthene	1	mg/kg	0.038	ND
Benzo[g,h,i]perylene	1	mg/kg	0.038	ND
Benzo[k]fluoranthene	1	mg/kg	0.038	ND
Benzyl alcohol	1	mg/kg	0.038	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.038	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0096	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.038	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.038	ND
Butylbenzylphthalate	1	mg/kg	0.038	ND
Caprolactam	1	mg/kg	0.038	ND
Carbazole	1	mg/kg	0.038	ND
Chrysene	1	mg/kg	0.038	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.038	ND
Dibenzofuran	**1**	**mg/kg**	**0.0097**	**0.066**
Diethylphthalate	1	mg/kg	0.038	ND
Dimethylphthalate	1	mg/kg	0.038	ND
Di-n-butylphthalate	1	mg/kg	0.044	ND
Di-n-octylphthalate	1	mg/kg	0.038	ND
Fluoranthene	1	mg/kg	0.038	ND
Fluorene	**1**	**mg/kg**	**0.038**	**0.12**
Hexachlorobenzene	1	mg/kg	0.038	ND
Hexachlorobutadiene	1	mg/kg	0.038	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.038	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.038	ND
Isophorone	1	mg/kg	0.038	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.038	ND
N-Nitrosodimethylamine	1	mg/kg	0.047	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.014	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	1	mg/kg	0.038	ND
Phenol	1	mg/kg	0.038	ND
Pyrene	1	mg/kg	0.038	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**69**	**880**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0023	ND
1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0023	ND
1,1-Dichloroethane	0.996	mg/kg	0.0023	ND
1,1-Dichloroethene	0.996	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0023	ND
1,2-Dibromoethane	0.996	mg/kg	0.00057	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0023	ND
1,2-Dichloroethane	0.996	mg/kg	0.0023	ND
1,2-Dichloropropane	0.996	mg/kg	0.0023	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0023	ND

Sample ID: SB-002SS1(16-18) **Collection Date:** 10/18/2021
Lab#: AD26731-001 **Receipt Date:** 10/19/2021
Matrix: Soil/Terracore

1,4-Dichlorobenzene	0.996	mg/kg	0.0023	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	**0.996**	**mg/kg**	**0.0023**	**0.039**
2-Hexanone	0.996	mg/kg	0.0023	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0023	ND
Acetone	**0.996**	**mg/kg**	**0.011**	**0.24**
Acrolein	0.996	mg/kg	0.011	ND
Acrylonitrile	0.996	mg/kg	0.0023	ND
Benzene	0.996	mg/kg	0.0011	ND
Bromochloromethane	0.996	mg/kg	0.0023	ND
Bromodichloromethane	0.996	mg/kg	0.0023	ND
Bromoform	0.996	mg/kg	0.0023	ND
Bromomethane	0.996	mg/kg	0.0023	ND
Carbon disulfide	0.996	mg/kg	0.0039	ND
Carbon tetrachloride	0.996	mg/kg	0.0023	ND
Chlorobenzene	0.996	mg/kg	0.0023	ND
Chloroethane	0.996	mg/kg	0.0023	ND
Chloroform	0.996	mg/kg	0.0023	ND
Chloromethane	0.996	mg/kg	0.0023	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0023	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0023	ND
Cyclohexane	0.996	mg/kg	0.0023	ND
Dibromochloromethane	0.996	mg/kg	0.0023	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0023	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	**0.996**	**mg/kg**	**0.0011**	**0.0062**
m&p-Xylenes	0.996	mg/kg	0.0014	ND
Methyl Acetate	0.996	mg/kg	0.0023	ND
Methylcyclohexane	**0.996**	**mg/kg**	**0.0023**	**0.014**
Methylene chloride	**0.996**	**mg/kg**	**0.0023**	**0.0051**
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
Styrene	0.996	mg/kg	0.0023	ND
t-Butyl Alcohol	0.996	mg/kg	0.011	ND
Tetrachloroethene	0.996	mg/kg	0.0023	ND
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0023	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0023	ND
Trichloroethene	0.996	mg/kg	0.0023	ND
Trichlorofluoromethane	0.996	mg/kg	0.0023	ND
Vinyl chloride	0.996	mg/kg	0.0023	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

Sample ID: SB002SS2(18-20) **Collection Date:** 10/18/2021
Lab#: AD26731-002 **Receipt Date:** 10/19/2021
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		77

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	3	mg/kg	230	2000

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	84.6	mg/kg	27	390

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	5	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.22	ND
1,2-Diphenylhydrazine	5	mg/kg	0.22	ND
1,4-Dioxane	5	mg/kg	0.11	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.22	ND
2,4,5-Trichlorophenol	5	mg/kg	0.22	ND
2,4,6-Trichlorophenol	5	mg/kg	0.22	ND
2,4-Dichlorophenol	5	mg/kg	0.081	ND
2,4-Dimethylphenol	5	mg/kg	0.11	ND
2,4-Dinitrophenol	5	mg/kg	1.1	ND
2,4-Dinitrotoluene	5	mg/kg	0.22	ND
2,6-Dinitrotoluene	5	mg/kg	0.22	ND
2-Chloronaphthalene	5	mg/kg	0.22	ND
2-Chlorophenol	5	mg/kg	0.22	ND
2-Methylnaphthalene	**5**	**mg/kg**	**0.22**	**0.31**
2-Methylphenol	5	mg/kg	0.062	ND
2-Nitroaniline	5	mg/kg	0.22	ND
2-Nitrophenol	5	mg/kg	0.22	ND
3&4-Methylphenol	5	mg/kg	0.063	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.22	ND
3-Nitroaniline	5	mg/kg	0.22	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	1.1	ND
4-Bromophenyl-phenylether	5	mg/kg	0.22	ND
4-Chloro-3-methylphenol	5	mg/kg	0.22	ND
4-Chloroaniline	5	mg/kg	0.095	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.22	ND
4-Nitroaniline	5	mg/kg	0.22	ND
4-Nitrophenol	5	mg/kg	0.22	ND
Acenaphthene	5	mg/kg	0.22	ND
Acenaphthylene	5	mg/kg	0.22	ND
Acetophenone	5	mg/kg	0.22	ND
Anthracene	5	mg/kg	0.22	ND
Atrazine	5	mg/kg	0.22	ND
Benzaldehyde	5	mg/kg	2.4	ND
Benzidine	5	mg/kg	0.38	ND
Benzo[a]anthracene	5	mg/kg	0.22	ND
Benzo[a]pyrene	5	mg/kg	0.22	ND
Benzo[b]fluoranthene	5	mg/kg	0.22	ND
Benzo[g,h,i]perylene	5	mg/kg	0.22	ND
Benzo[k]fluoranthene	5	mg/kg	0.22	ND
Benzyl alcohol	5	mg/kg	0.22	ND
bis(2-Chloroethoxy)methane	5	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	5	mg/kg	0.054	ND

Sample ID: SB002SS2(18-20) **Collection Date:** 10/18/2021
Lab#: AD26731-002 **Receipt Date:** 10/19/2021
Matrix: Soil/Terracore

bis(2-Chloroisopropyl)ether	5	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	0.22	ND
Butylbenzylphthalate	5	mg/kg	0.22	ND
Caprolactam	5	mg/kg	0.22	ND
Carbazole	5	mg/kg	0.22	ND
Chrysene	5	mg/kg	0.22	ND
Dibenzo[a,h]anthracene	5	mg/kg	0.22	ND
Dibenzofuran	**5**	**mg/kg**	**0.055**	**0.076**
Diethylphthalate	5	mg/kg	0.22	ND
Dimethylphthalate	5	mg/kg	0.22	ND
Di-n-butylphthalate	5	mg/kg	0.25	ND
Di-n-octylphthalate	5	mg/kg	0.22	ND
Fluoranthene	5	mg/kg	0.22	ND
Fluorene	5	mg/kg	0.22	ND
Hexachlorobenzene	5	mg/kg	0.22	ND
Hexachlorobutadiene	5	mg/kg	0.22	ND
Hexachlorocyclopentadiene	5	mg/kg	0.70	ND
Hexachloroethane	5	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	5	mg/kg	0.22	ND
Isophorone	5	mg/kg	0.22	ND
Naphthalene	5	mg/kg	0.062	ND
Nitrobenzene	5	mg/kg	0.22	ND
N-Nitrosodimethylamine	5	mg/kg	0.27	ND
N-Nitroso-di-n-propylamine	5	mg/kg	0.081	ND
N-Nitrosodiphenylamine	5	mg/kg	0.73	ND
Pentachlorophenol	5	mg/kg	1.1	ND
Phenanthrene	5	mg/kg	0.22	ND
Phenol	5	mg/kg	0.22	ND
Pyrene	5	mg/kg	0.22	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**3**	**mg/kg**	**230**	**2000**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.781	mg/kg	0.0020	ND
1,1,2,2-Tetrachloroethane	0.781	mg/kg	0.0020	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.781	mg/kg	0.0020	ND
1,1,2-Trichloroethane	0.781	mg/kg	0.0020	ND
1,1-Dichloroethane	0.781	mg/kg	0.0020	ND
1,1-Dichloroethene	0.781	mg/kg	0.0020	ND
1,2,3-Trichlorobenzene	0.781	mg/kg	0.0020	ND
1,2,4-Trichlorobenzene	0.781	mg/kg	0.0020	ND
1,2-Dibromo-3-chloropropane	0.781	mg/kg	0.0020	ND
1,2-Dibromoethane	0.781	mg/kg	0.00051	ND
1,2-Dichlorobenzene	0.781	mg/kg	0.0020	ND
1,2-Dichloroethane	0.781	mg/kg	0.0020	ND
1,2-Dichloropropane	0.781	mg/kg	0.0020	ND
1,3-Dichlorobenzene	0.781	mg/kg	0.0020	ND
1,4-Dichlorobenzene	0.781	mg/kg	0.0020	ND
1,4-Dioxane	0.781	mg/kg	0.10	ND
2-Butanone	**0.781**	**mg/kg**	**0.0020**	**0.021**
2-Hexanone	0.781	mg/kg	0.0020	ND
4-Methyl-2-pentanone	0.781	mg/kg	0.0020	ND
Acetone	**0.781**	**mg/kg**	**0.010**	**0.11**
Acrolein	0.781	mg/kg	0.010	ND

Sample ID: SB002SS2(18-20) **Collection Date:** 10/18/2021
Lab#: AD26731-002 **Receipt Date:** 10/19/2021
Matrix: Soil/Terracore

Acrylonitrile	0.781	mg/kg	0.0020	ND
Benzene	0.781	mg/kg	0.0010	ND
Bromochloromethane	0.781	mg/kg	0.0020	ND
Bromodichloromethane	0.781	mg/kg	0.0020	ND
Bromoform	0.781	mg/kg	0.0020	ND
Bromomethane	0.781	mg/kg	0.0020	ND
Carbon disulfide	**0.781**	**mg/kg**	**0.0034**	**0.0057**
Carbon tetrachloride	0.781	mg/kg	0.0020	ND
Chlorobenzene	0.781	mg/kg	0.0020	ND
Chloroethane	0.781	mg/kg	0.0020	ND
Chloroform	0.781	mg/kg	0.0020	ND
Chloromethane	0.781	mg/kg	0.0020	ND
cis-1,2-Dichloroethene	0.781	mg/kg	0.0020	ND
cis-1,3-Dichloropropene	0.781	mg/kg	0.0020	ND
Cyclohexane	0.781	mg/kg	0.0020	ND
Dibromochloromethane	0.781	mg/kg	0.0020	ND
Dichlorodifluoromethane	0.781	mg/kg	0.0020	ND
Ethylbenzene	0.781	mg/kg	0.0010	ND
Isopropylbenzene	0.781	mg/kg	0.0010	ND
m&p-Xylenes	0.781	mg/kg	0.0012	ND
Methyl Acetate	0.781	mg/kg	0.0020	ND
Methylcyclohexane	**0.781**	**mg/kg**	**0.0020**	**0.038**
Methylene chloride	**0.781**	**mg/kg**	**0.0020**	**0.0031**
Methyl-t-butyl ether	0.781	mg/kg	0.0010	ND
o-Xylene	0.781	mg/kg	0.0010	ND
Styrene	0.781	mg/kg	0.0020	ND
t-Butyl Alcohol	0.781	mg/kg	0.010	ND
Tetrachloroethene	0.781	mg/kg	0.0020	ND
Toluene	0.781	mg/kg	0.0010	ND
trans-1,2-Dichloroethene	0.781	mg/kg	0.0020	ND
trans-1,3-Dichloropropene	0.781	mg/kg	0.0020	ND
Trichloroethene	0.781	mg/kg	0.0020	ND
Trichlorofluoromethane	0.781	mg/kg	0.0020	ND
Vinyl chloride	0.781	mg/kg	0.0020	ND
Xylenes (Total)	0.781	mg/kg	0.0010	ND

Sample ID: SB-001SS(4-6)
Lab#: AD26731-003
Matrix: Soil/Terracore

Collection Date: 10/18/2021
Receipt Date: 10/19/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	65	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	103	mg/kg	28	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.036	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.036	ND
1,2-Diphenylhydrazine	1	mg/kg	0.036	ND
1,4-Dioxane	1	mg/kg	0.018	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.036	ND
2,4,5-Trichlorophenol	1	mg/kg	0.036	ND
2,4,6-Trichlorophenol	1	mg/kg	0.036	ND
2,4-Dichlorophenol	1	mg/kg	0.013	ND
2,4-Dimethylphenol	1	mg/kg	0.017	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.036	ND
2,6-Dinitrotoluene	1	mg/kg	0.036	ND
2-Chloronaphthalene	1	mg/kg	0.036	ND
2-Chlorophenol	1	mg/kg	0.036	ND
2-Methylnaphthalene	1	mg/kg	0.036	ND
2-Methylphenol	1	mg/kg	0.010	ND
2-Nitroaniline	1	mg/kg	0.036	ND
2-Nitrophenol	1	mg/kg	0.036	ND
3&4-Methylphenol	1	mg/kg	0.010	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.036	ND
3-Nitroaniline	1	mg/kg	0.036	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.036	ND
4-Chloro-3-methylphenol	1	mg/kg	0.036	ND
4-Chloroaniline	1	mg/kg	0.016	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.036	ND
4-Nitroaniline	1	mg/kg	0.036	ND
4-Nitrophenol	1	mg/kg	0.036	ND
Acenaphthene	1	mg/kg	0.036	ND
Acenaphthylene	1	mg/kg	0.036	ND
Acetophenone	1	mg/kg	0.036	ND
Anthracene	1	mg/kg	0.036	ND
Atrazine	1	mg/kg	0.036	ND
Benzaldehyde	1	mg/kg	0.39	ND
Benzidine	1	mg/kg	0.063	ND
Benzo[a]anthracene	1	mg/kg	0.036	ND
Benzo[a]pyrene	1	mg/kg	0.036	ND
Benzo[b]fluoranthene	1	mg/kg	0.036	ND
Benzo[g,h,i]perylene	1	mg/kg	0.036	ND
Benzo[k]fluoranthene	1	mg/kg	0.036	ND
Benzyl alcohol	1	mg/kg	0.036	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.036	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0090	ND

Sample ID: SB-001SS(4-6) **Collection Date:** 10/18/2021
Lab#: AD26731-003 **Receipt Date:** 10/19/2021
Matrix: Soil/Terracore

bis(2-Chloroisopropyl)ether	1	mg/kg	0.036	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.036	ND
Butylbenzylphthalate	1	mg/kg	0.036	ND
Caprolactam	1	mg/kg	0.036	ND
Carbazole	1	mg/kg	0.036	ND
Chrysene	1	mg/kg	0.036	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.036	ND
Dibenzofuran	1	mg/kg	0.0091	ND
Diethylphthalate	1	mg/kg	0.036	ND
Dimethylphthalate	1	mg/kg	0.036	ND
Di-n-butylphthalate	1	mg/kg	0.041	ND
Di-n-octylphthalate	1	mg/kg	0.036	ND
Fluoranthene	1	mg/kg	0.036	ND
Fluorene	1	mg/kg	0.036	ND
Hexachlorobenzene	1	mg/kg	0.036	ND
Hexachlorobutadiene	1	mg/kg	0.036	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.036	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.036	ND
Isophorone	1	mg/kg	0.036	ND
Naphthalene	1	mg/kg	0.010	ND
Nitrobenzene	1	mg/kg	0.036	ND
N-Nitrosodimethylamine	1	mg/kg	0.044	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.013	ND
N-Nitrosodiphenylamine	1	mg/kg	0.12	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	1	mg/kg	0.036	ND
Phenol	1	mg/kg	0.036	ND
Pyrene	1	mg/kg	0.036	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	65	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.904	mg/kg	0.0019	ND
1,1,2,2-Tetrachloroethane	0.904	mg/kg	0.0019	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.904	mg/kg	0.0019	ND
1,1,2-Trichloroethane	0.904	mg/kg	0.0019	ND
1,1-Dichloroethane	0.904	mg/kg	0.0019	ND
1,1-Dichloroethene	0.904	mg/kg	0.0019	ND
1,2,3-Trichlorobenzene	0.904	mg/kg	0.0019	ND
1,2,4-Trichlorobenzene	0.904	mg/kg	0.0019	ND
1,2-Dibromo-3-chloropropane	0.904	mg/kg	0.0019	ND
1,2-Dibromoethane	0.904	mg/kg	0.00049	ND
1,2-Dichlorobenzene	0.904	mg/kg	0.0019	ND
1,2-Dichloroethane	0.904	mg/kg	0.0019	ND
1,2-Dichloropropane	0.904	mg/kg	0.0019	ND
1,3-Dichlorobenzene	0.904	mg/kg	0.0019	ND
1,4-Dichlorobenzene	0.904	mg/kg	0.0019	ND
1,4-Dioxane	0.904	mg/kg	0.097	ND
2-Butanone	0.904	mg/kg	0.0019	ND
2-Hexanone	0.904	mg/kg	0.0019	ND
4-Methyl-2-pentanone	0.904	mg/kg	0.0019	ND
Acetone	0.904	mg/kg	0.0097	ND
Acrolein	0.904	mg/kg	0.0097	ND

Sample ID: SB-001SS(4-6) **Collection Date:** 10/18/2021
Lab#: AD26731-003 **Receipt Date:** 10/19/2021
Matrix: Soil/Terracore

Acrylonitrile	0.904	mg/kg	0.0019	ND
Benzene	0.904	mg/kg	0.00097	ND
Bromochloromethane	0.904	mg/kg	0.0019	ND
Bromodichloromethane	0.904	mg/kg	0.0019	ND
Bromoform	0.904	mg/kg	0.0019	ND
Bromomethane	0.904	mg/kg	0.0019	ND
Carbon disulfide	0.904	mg/kg	0.0033	ND
Carbon tetrachloride	0.904	mg/kg	0.0019	ND
Chlorobenzene	0.904	mg/kg	0.0019	ND
Chloroethane	0.904	mg/kg	0.0019	ND
Chloroform	0.904	mg/kg	0.0019	ND
Chloromethane	0.904	mg/kg	0.0019	ND
cis-1,2-Dichloroethene	0.904	mg/kg	0.0019	ND
cis-1,3-Dichloropropene	0.904	mg/kg	0.0019	ND
Cyclohexane	0.904	mg/kg	0.0019	ND
Dibromochloromethane	0.904	mg/kg	0.0019	ND
Dichlorodifluoromethane	0.904	mg/kg	0.0019	ND
Ethylbenzene	0.904	mg/kg	0.00097	ND
Isopropylbenzene	0.904	mg/kg	0.00097	ND
m&p-Xylenes	0.904	mg/kg	0.0012	ND
Methyl Acetate	0.904	mg/kg	0.0019	ND
Methylcyclohexane	0.904	mg/kg	0.0019	ND
Methylene chloride	**0.904**	**mg/kg**	**0.0019**	**0.0022**
Methyl-t-butyl ether	0.904	mg/kg	0.00097	ND
o-Xylene	0.904	mg/kg	0.00097	ND
Styrene	0.904	mg/kg	0.0019	ND
t-Butyl Alcohol	0.904	mg/kg	0.0097	ND
Tetrachloroethene	0.904	mg/kg	0.0019	ND
Toluene	0.904	mg/kg	0.00097	ND
trans-1,2-Dichloroethene	0.904	mg/kg	0.0019	ND
trans-1,3-Dichloropropene	0.904	mg/kg	0.0019	ND
Trichloroethene	0.904	mg/kg	0.0019	ND
Trichlorofluoromethane	0.904	mg/kg	0.0019	ND
Vinyl chloride	0.904	mg/kg	0.0019	ND
Xylenes (Total)	0.904	mg/kg	0.00097	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: CSA WMATA

HC Project #: 1101901

Lab#: AD26731-001 **Sample ID: SB-002SS1(16-18)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/20/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 14:24	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/21/21 16:03	JM
Semivolatile Organics (no search) 8270	3510C/3550C	10/28/21 09:20	AT	EPA 8270E	10/28/21 19:38	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 14:24	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/20/21 21:00	JM

Lab#: AD26731-002 **Sample ID: SB002SS2(18-20)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/20/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:52	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/21/21 16:21	JM
Semivolatile Organics (no search) 8270	3510C/3550C	10/28/21 09:20	AT	EPA 8270E	10/29/21 16:17	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:52	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/20/21 19:17	JM

Lab#: AD26731-003 **Sample ID: SB-001SS(4-6)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/20/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:22	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/21/21 19:04	JM
Semivolatile Organics (no search) 8270	3510C/3550C	10/28/21 09:20	AT	EPA 8270E	10/28/21 20:02	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:22	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/20/21 16:31	JM

Chain of Custody

11N1901 NN16

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke
WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1101901

Page 1 of

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlek
Address: 2930 Eskridge Rd, Fairfax VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andrea.acosta@interlek.com
1d) Send Report to: + virginia.arthur@interlek.com

Project Information

2a) Project: CSA WMATA C44100-1
2b) Project Mgr:
2c) Project Location (City/State):
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # AD26731

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	7) Analysis: 8260 VOC	7) Analysis: 8270 SVOC	7) Analysis: TPH - DRO/GRO/8270	7) Analysis: 4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: Water	9) Comments
001	SB-002 SS1 (16-18)	S	10/18	10:00			X	X	X		1	1						2	
002	SB-002 SS2 (18-20)	S	↓	10:30			X	X	X		↓	↓						↓	
003	SB-001 SS (4-6)	S	↓	1300			X	X	X		↓	↓						↓	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX		
FEDEX	[illegible]	10/19/21	8:20

11) Sampler (print name): RINZO UA [illegible] Date: 10/18/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.6

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD26731 Entered By: maxwell
Date Entered 10/19/2021 8:26:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.6
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD26731-001	10/19/21 08:20	MAXW	0	M	Received
AD26731-001	10/19/21 08:26	MAXW	0	M	Login
AD26731-001	10/19/21 17:33	R12	1	A	NONE
AD26731-001	10/19/21 23:24	PA	1	A	mx
AD26731-001	10/19/21 23:25	R12	1	A	NONE
AD26731-001	10/20/21 08:36	BCT	1	A	SOLIDS
AD26731-001	10/20/21 10:03	R12	1	A	NONE
AD26731-001	10/28/21 15:15	AT	1	A	BNA
AD26731-001	10/28/21 15:17	R12	1	A	NONE
AD26731-001	10/29/21 09:53	LB	1	A	TPH
AD26731-001	10/29/21 09:54	R12	1	A	NONE
AD26731-001	10/19/21 08:41	R31	2	A	NONE
AD26731-001	10/20/21 15:40	R31	2	A	NONE
AD26731-001	10/21/21 16:15	JM	2	A	GRO
AD26731-001	10/19/21 08:41	F19	3	A	NONE
AD26731-001	10/20/21 19:02	WP	3	A	VOA
AD26731-001	10/19/21 08:41	F19	4	A	NONE
AD26731-001	10/20/21 13:36	JM	4	A	VOA
AD26731-001	10/20/21 19:02	WP	4	A	VOA
AD26731-002	10/19/21 08:20	MAXW	0	M	Received
AD26731-002	10/19/21 08:26	MAXW	0	M	Login
AD26731-002	10/19/21 17:33	R12	1	A	NONE
AD26731-002	10/19/21 23:24	PA	1	A	mx
AD26731-002	10/19/21 23:25	R12	1	A	NONE
AD26731-002	10/20/21 08:36	BCT	1	A	SOLIDS
AD26731-002	10/20/21 10:03	R12	1	A	NONE
AD26731-002	10/28/21 15:15	AT	1	A	BNA
AD26731-002	10/28/21 15:17	R12	1	A	NONE
AD26731-002	10/29/21 09:53	LB	1	A	TPH
AD26731-002	10/29/21 09:54	R12	1	A	NONE
AD26731-002	10/19/21 08:41	R31	2	A	NONE
AD26731-002	10/20/21 15:40	R31	2	A	NONE
AD26731-002	10/21/21 16:15	JM	2	A	GRO
AD26731-002	10/19/21 08:41	F19	3	A	NONE
AD26731-002	10/20/21 19:02	WP	3	A	VOA
AD26731-002	10/19/21 08:41	F19	4	A	NONE
AD26731-002	10/20/21 13:36	JM	4	A	VOA
AD26731-002	10/20/21 19:02	WP	4	A	VOA
AD26731-003	10/19/21 08:20	MAXW	0	M	Received
AD26731-003	10/19/21 08:26	MAXW	0	M	Login
AD26731-003	10/19/21 17:33	R12	1	A	NONE
AD26731-003	10/19/21 23:24	PA	1	A	mx
AD26731-003	10/19/21 23:25	R12	1	A	NONE
AD26731-003	10/20/21 08:36	BCT	1	A	SOLIDS
AD26731-003	10/20/21 10:03	R12	1	A	NONE
AD26731-003	10/28/21 15:15	AT	1	A	BNA
AD26731-003	10/28/21 15:17	R12	1	A	NONE
AD26731-003	10/29/21 09:53	LB	1	A	TPH
AD26731-003	10/29/21 09:54	R12	1	A	NONE
AD26731-003	10/19/21 08:41	R31	2	A	NONE
AD26731-003	10/20/21 15:40	R31	2	A	NONE
AD26731-003	10/21/21 16:15	JM	2	A	GRO
AD26731-003	10/19/21 08:41	F19	3	A	NONE
AD26731-003	10/19/21 08:41	F19	4	A	NONE
AD26731-003	10/20/21 13:36	JM	4	A	VOA

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26731-001
Client Id: SB-002SS1(16-18)
Data File: 6M146318.D
Analysis Date: 10/20/21 21:00
Date Rec/Extracted: 10/19/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.00057	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0023	U	**98-82-8**	**Isopropylbenzene**	**0.0011**	**0.0062**
78-87-5	1,2-Dichloropropane	0.0023	U	79601-23-1	m&p-Xylenes	0.0014	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	**108-87-2**	**Methylcyclohexane**	**0.0023**	**0.014**
123-91-1	1,4-Dioxane	0.11	U	**75-09-2**	**Methylene Chloride**	**0.0023**	**0.0051**
78-93-3	**2-Butanone**	**0.0023**	**0.039**	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	**Acetone**	**0.011**	**0.24**	75-65-0	t-Butyl Alcohol	0.011	U
107-02-8	Acrolein	0.011	U	127-18-4	Tetrachloroethene	0.0023	U
107-13-1	Acrylonitrile	0.0023	U	108-88-3	Toluene	0.0011	U
71-43-2	Benzene	0.0011	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
74-97-5	Bromochloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	79-01-6	Trichloroethene	0.0023	U
75-25-2	Bromoform	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
75-15-0	Carbon Disulfide	0.0039	U	1330-20-7	Xylenes (Total)	0.0011	U

Worksheet #: 615458

Total Target Concentration 0.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD26731-001 Operator : JM Qt Meth : 6M_S0915.M
Data File: 6M146318.D Sam Mult : 1 Vial# : 33 Qt On : 10/20/21 21:12
Acq On : 10/20/21 21:00 Misc : S,5G!4 Qt Upd On: 09/16/21 14:33

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-20-21\
Qt Path : G:\GcMsData\2021\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.129	96	155258	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.763	117	130530	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.049	152	97713	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.739	111	45757	31.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.77%			
39) 1,2-Dichloroethane-d4	4.940	67	27588	31.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.37%			
66) Toluene-d8	5.989	98	167597	31.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.37%			
76) Bromofluorobenzene	7.397	174	50755	21.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 70.20%			
Target Compounds						Qvalue
15) Methylene Chloride	3.453	84	5834	4.4311	ug/l	78
19) Acetone	3.069	43	103723	209.5572	ug/l	84
41) 2-Butanone	4.446	43	25418	33.9402	ug/l	72
46) Methylcyclohexane	5.452	83	23896m	12.5966	ug/l	
84) Isopropylbenzene	7.293	105	41609	5.4072	ug/l	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

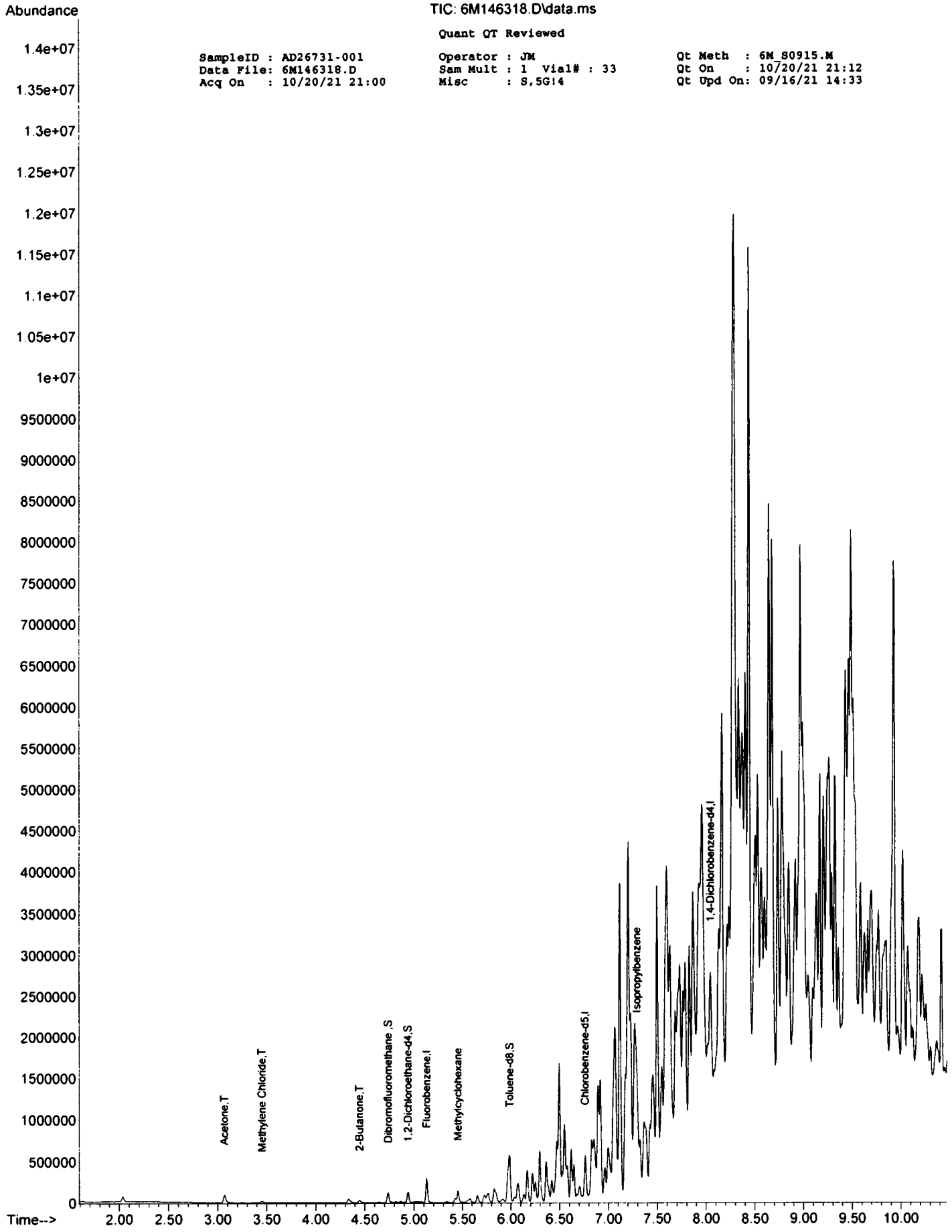
TIC: 6M146318.D\data.ms

Quant QT Reviewed

SampleID : AD26731-001
Data File: 6M146318.D
Acq On : 10/20/21 21:00

Operator : JM
Sam Mult : 1 Vial# : 33
Misc : S,5G14

Qt Meth : 6M_S0915.M
Qt On : 10/20/21 21:12
Qt Upd On: 09/16/21 14:33



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26731-002
Client Id: SB002SS2(18-20)
Data File: 6M146313.D
Analysis Date: 10/20/21 19:17
Date Rec/Extracted: 10/19/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.4g
Final Vol: NA
Dilution: 0.781
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00051	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	**108-87-2**	**Methylcyclohexane**	**0.0020**	**0.038**
123-91-1	1,4-Dioxane	0.10	U	**75-09-2**	**Methylene Chloride**	**0.0020**	**0.0031**
78-93-3	**2-Butanone**	**0.0020**	**0.021**	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	**Acetone**	**0.010**	**0.11**	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	**Carbon Disulfide**	**0.0034**	**0.0057**	1330-20-7	Xylenes (Total)	0.0010	U

Worksheet #: 615458

Total Target Concentration 0.18

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

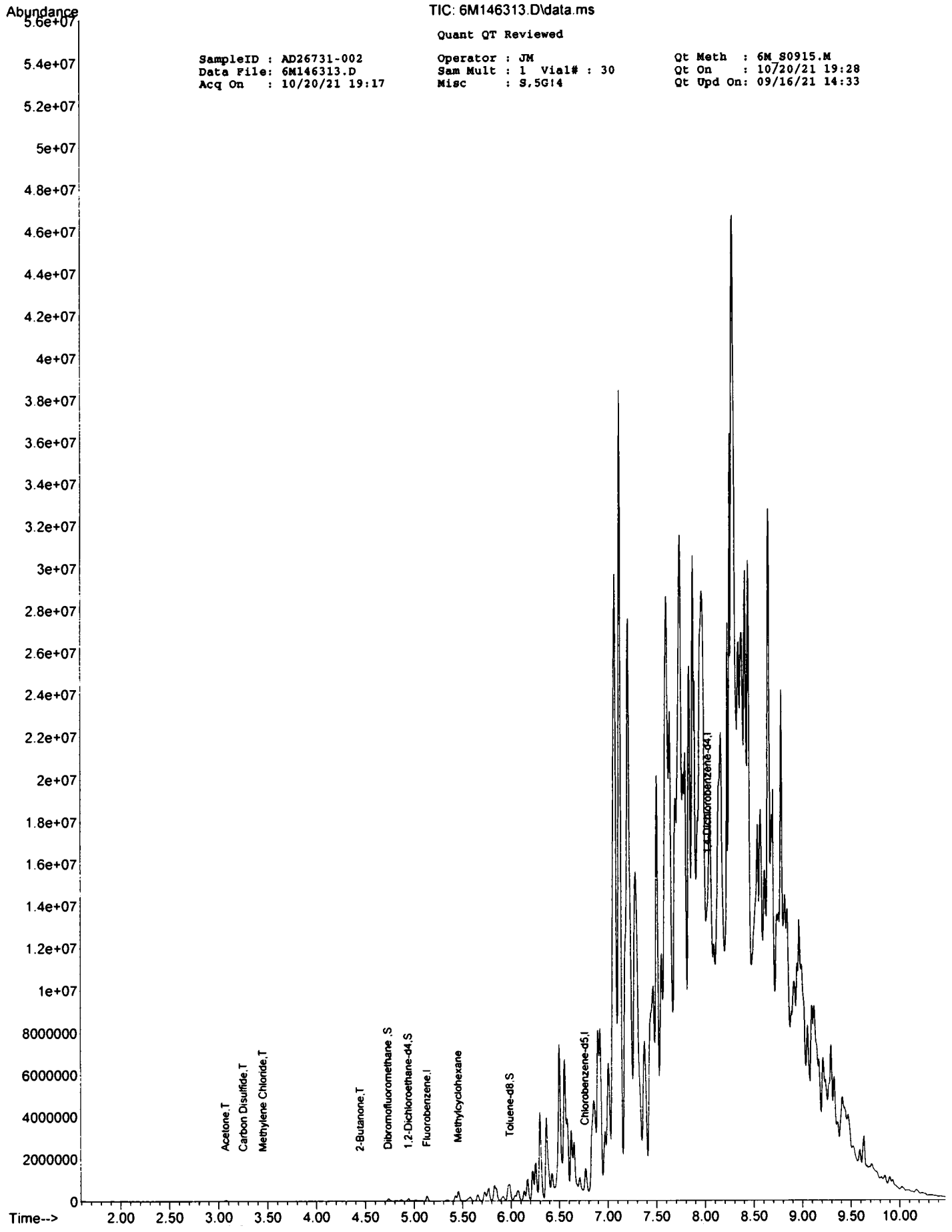
Quantitation Report (QT Reviewed)

SampleID : AD26731-002 Operator : JM Qt Meth : 6M_S0915.M
Data File: 6M146313.D Sam Mult : 1 Vial# : 30 Qt On : 10/20/21 19:28
Acq On : 10/20/21 19:17 Misc : S,5G!4 Qt Upd On: 09/16/21 14:33

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-20-21\
Qt Path : G:\GcMsData\2021\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.129	96	123508	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.763	117	99998	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	330149	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.733	111	39753	34.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 114.43%			
39) 1,2-Dichloroethane-d4	4.940	67	22566	32.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.37%			
66) Toluene-d8	5.989	98	148684	36.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 123.20%			
76) Bromofluorobenzene	7.397	174	41510	5.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 17.00%			
Target Compounds						Qvalue
15) Methylene Chloride	3.453	84	3223	3.0772	ug/l	96
19) Acetone	3.068	43	43006	109.2233	ug/l	81
20) Carbon Disulfide	3.251	76	15950	5.5933	ug/l	100
41) 2-Butanone	4.446	43	12329	20.6947	ug/l	82
46) Methylcyclohexane	5.452	83	56687m	37.5638	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M146313.D\data.ms
Quant QT Reviewed
SampleID : AD26731-002
Data File: 6M146313.D
Acq On : 10/20/21 19:17
Operator : JM
Sam Mult : 1 Vial# : 30
Misc : S,5G!4
Qt Meth : 6M_S0915.M
Qt On : 10/20/21 19:28
Qt Upd On: 09/16/21 14:33
5.6e+07
5.4e+07
5.2e+07
5e+07
4.8e+07
4.6e+07
4.4e+07
4.2e+07
4e+07
3.8e+07
3.6e+07
3.4e+07
3.2e+07
3e+07
2.8e+07
2.6e+07
2.4e+07
2.2e+07
2e+07
1.8e+07
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Acetone,T
Carbon Disulfide,T
Methylene Chloride,T
2-Butanone,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Methylcyclohexane
Toluene-d8,S
Chlorobenzene-d5,I
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26731-003
Client Id: SB-001SS(4-6)
Data File: 6M146305.D
Analysis Date: 10/20/21 16:31
Date Rec/Extracted: 10/19/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.53g
Final Vol: NA
Dilution: 0.904
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0019	U	56-23-5	Carbon Tetrachloride	0.0019	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0019	U	108-90-7	Chlorobenzene	0.0019	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0019	U	75-00-3	Chloroethane	0.0019	U
79-00-5	1,1,2-Trichloroethane	0.0019	U	67-66-3	Chloroform	0.0019	U
75-34-3	1,1-Dichloroethane	0.0019	U	74-87-3	Chloromethane	0.0019	U
75-35-4	1,1-Dichloroethene	0.0019	U	156-59-2	cis-1,2-Dichloroethene	0.0019	U
87-61-6	1,2,3-Trichlorobenzene	0.0019	U	10061-01-5	cis-1,3-Dichloropropene	0.0019	U
120-82-1	1,2,4-Trichlorobenzene	0.0019	U	110-82-7	Cyclohexane	0.0019	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0019	U	124-48-1	Dibromochloromethane	0.0019	U
106-93-4	1,2-Dibromoethane	0.00049	U	75-71-8	Dichlorodifluoromethane	0.0019	U
95-50-1	1,2-Dichlorobenzene	0.0019	U	100-41-4	Ethylbenzene	0.00097	U
107-06-2	1,2-Dichloroethane	0.0019	U	98-82-8	Isopropylbenzene	0.00097	U
78-87-5	1,2-Dichloropropane	0.0019	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0019	U	79-20-9	Methyl Acetate	0.0019	U
106-46-7	1,4-Dichlorobenzene	0.0019	U	108-87-2	Methylcyclohexane	0.0019	U
123-91-1	1,4-Dioxane	0.097	U	**75-09-2**	**Methylene Chloride**	**0.0019**	**0.0022**
78-93-3	2-Butanone	0.0019	U	1634-04-4	Methyl-t-butyl ether	0.00097	U
591-78-6	2-Hexanone	0.0019	U	95-47-6	o-Xylene	0.00097	U
108-10-1	4-Methyl-2-Pentanone	0.0019	U	100-42-5	Styrene	0.0019	U
67-64-1	Acetone	0.0097	U	75-65-0	t-Butyl Alcohol	0.0097	U
107-02-8	Acrolein	0.0097	U	127-18-4	Tetrachloroethene	0.0019	U
107-13-1	Acrylonitrile	0.0019	U	108-88-3	Toluene	0.00097	U
71-43-2	Benzene	0.00097	U	156-60-5	trans-1,2-Dichloroethene	0.0019	U
74-97-5	Bromochloromethane	0.0019	U	10061-02-6	trans-1,3-Dichloropropene	0.0019	U
75-27-4	Bromodichloromethane	0.0019	U	79-01-6	Trichloroethene	0.0019	U
75-25-2	Bromoform	0.0019	U	75-69-4	Trichlorofluoromethane	0.0019	U
74-83-9	Bromomethane	0.0019	U	75-01-4	Vinyl Chloride	0.0019	U
75-15-0	Carbon Disulfide	0.0033	U	1330-20-7	Xylenes (Total)	0.00097	U

Worksheet #: 615458

Total Target Concentration 0.0022

ColumnID: (^) Indicates results from 2nd column

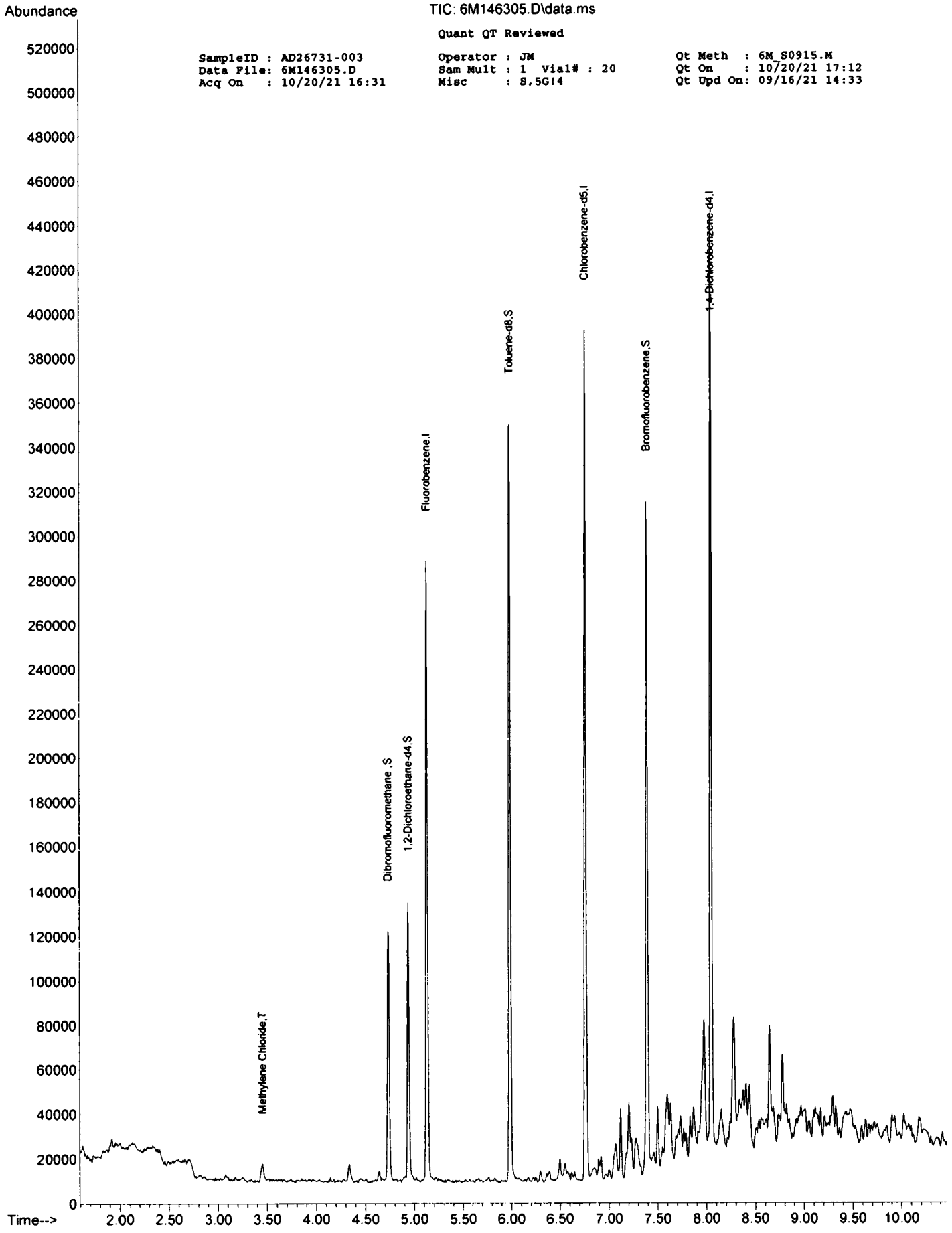
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD26731-003 Operator : JM Qt Meth : 6M_S0915.M
Data File: 6M146305.D Sam Mult : 1 Vial# : 20 Qt On : 10/20/21 17:12
Acq On : 10/20/21 16:31 Misc : S,5G!4 Qt Upd On: 09/16/21 14:33

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-20-21\
Qt Path : G:\GcMsData\2021\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.129	96	145015	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.763	117	130237	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.050	152	75160	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.733	111	45211	33.25	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.83%			
39) 1,2-Dichloroethane-d4	4.940	67	25916	32.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.97%			
66) Toluene-d8	5.989	98	147730	28.19	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.97%			
76) Bromofluorobenzene	7.391	174	54320	29.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.67%			
Target Compounds						Qvalue
15) Methylene Chloride	3.453	84	2728	2.2183	ug/l	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M146305.D\data.ms
Quant QT Reviewed
SampleID : AD26731-003
Data File: 6M146305.D
Acq On : 10/20/21 16:31
Operator : JM
Sam Mult : 1 Vial# : 20
Misc : S,5G!4
Qt Meth : 6M_S0915.M
Qt On : 10/20/21 17:12
Qt Upd On: 09/16/21 14:33
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M146294.D
Analysis Date: 10/20/21 12:43
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 615458

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

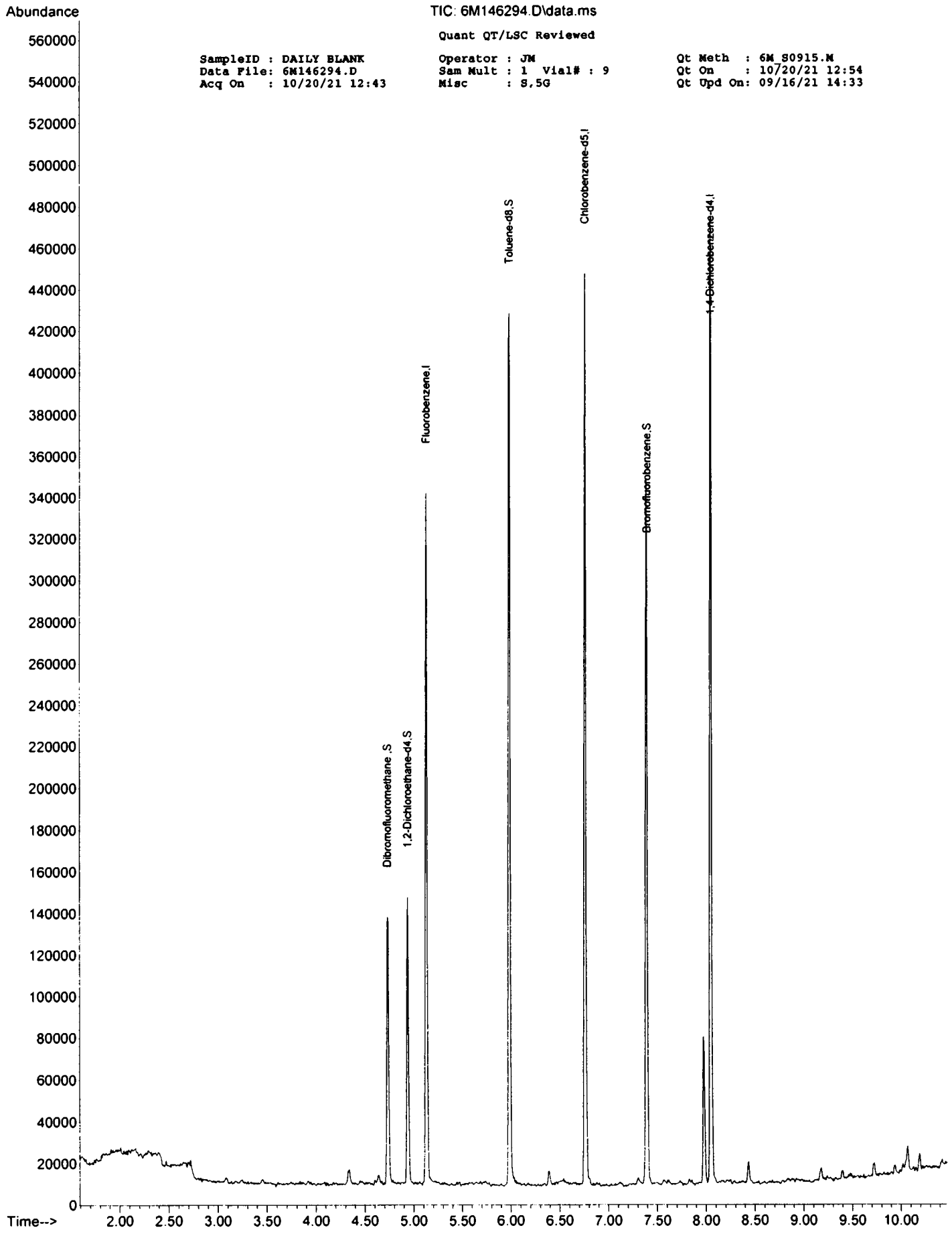
Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK Operator : JM Qt Meth : 6M_S0915.M
Data File: 6M146294.D Sam Mult : 1 Vial# : 9 Qt On : 10/20/21 12:54
Acq On : 10/20/21 12:43 Misc : S,5G Qt Upd On: 09/16/21 14:33

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-20-21\
Qt Path : G:\GcMsData\2021\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.129	96	173375	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.763	117	150393	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.049	152	83265	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.733	111	51015	31.38	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.60%			
39) 1,2-Dichloroethane-d4	4.940	67	28083	29.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.93%			
66) Toluene-d8	5.989	98	179714	29.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.00%			
76) Bromofluorobenzene	7.397	174	60693	29.55	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.50%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M146294.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 6M146294.D
Acq On : 10/20/21 12:43
Operator : JM
Sam Mult : 1 Vial# : 9
Misc : S,5G
Qt Meth : 6M_S0915.M
Qt On : 10/20/21 12:54
Qt Upd On: 09/16/21 14:33
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M146294.D	DAILY BLANK	S	10/20/21 12:43	1		105	97	99	99		
6M146318.D	AD26731-001	S	10/20/21 21:00	1		105	106	106	70		
6M146313.D	AD26731-002	S	10/20/21 19:17	1		114	109	123*	17*		
6M146315.D	AD26731-002	S	10/20/21 19:58	1		105	103	117	30*		
6M146305.D	AD26731-003	S	10/20/21 16:31	1		111	107	94	98		
6M146295.D	MBS97012	S	10/20/21 13:03	1		101	96	99	101		
6M146296.D	AD26688-001(MS)	S	10/20/21 13:24	1		103	102	102	107		
6M146297.D	AD26688-001(MSD)	S	10/20/21 13:45	1		105	102	102	106		
6M146298.D	AD26688-001	S	10/20/21 14:06	1		108	106	97	103		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97012

Data File: Spike or Dup: 6M146295.D
Sample ID: MBS97012
Analysis Date: 10/20/2021 1:03:00 PM
Non Spike(If applicable):
Inst Blank(If applicable):

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	30.5586	0	50	61	20	130
Dichlorodifluoromethane	1	95.1154	0	50	190*	20	130
Chloromethane	1	50.089	0	50	100	20	130
Bromomethane	1	55.6017	0	50	111	20	130
Vinyl Chloride	1	54.9761	0	50	110	20	130
Chloroethane	1	53.5253	0	50	107	20	130
Trichlorofluoromethane	1	59.9631	0	50	120	20	130
Ethyl ether	1	44.289	0	50	89	50	130
Furan	1	46.9715	0	50	94	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	45.9093	0	50	92	50	130
Methylene Chloride	1	43.4261	0	50	87	50	130
Acrolein	1	247.9007	0	200	124	20	130
Acrylonitrile	1	42.7748	0	50	86	20	130
Iodomethane	1	38.5194	0	50	77	50	130
Acetone	1	229.7909	0	200	115	20	130
Carbon Disulfide	1	40.668	0	50	81	50	130
t-Butyl Alcohol	1	246.3781	0	200	123	20	130
n-Hexane	1	43.3004	0	50	87	50	130
Di-isopropyl-ether	1	36.8916	0	50	74	50	130
1,1-Dichloroethene	1	48.3337	0	50	97	50	130
Methyl Acetate	1	42.5503	0	50	85	50	130
Methyl-t-butyl ether	1	40.0214	0	50	80	50	130
1,1-Dichloroethane	1	42.8037	0	50	86	50	130
trans-1,2-Dichloroethene	1	44.2703	0	50	89	50	130
Ethyl-t-butyl ether	1	40.0045	0	50	80	50	130
cis-1,2-Dichloroethene	1	42.8928	0	50	86	50	130
Bromochloromethane	1	38.4637	0	50	77	50	130
2,2-Dichloropropane	1	35.5114	0	50	71	50	130
Ethyl acetate	1	43.6994	0	50	87	50	130
1,4-Dioxane	1	2757.58	0	2500	110	50	130
1,1-Dichloropropene	1	44.1477	0	50	88	50	130
Chloroform	1	40.9509	0	50	82	50	130
Cyclohexane	1	41.6743	0	50	83	50	130
1,2-Dichloroethane	1	40.53	0	50	81	50	130
2-Butanone	1	42.7892	0	50	86	20	130
1,1,1-Trichloroethane	1	43.8384	0	50	88	50	130
Carbon Tetrachloride	1	46.7635	0	50	94	50	130
Vinyl Acetate	1	39.0185	0	50	78	50	130
Bromodichloromethane	1	40.7909	0	50	82	50	130
Methylcyclohexane	1	44.3383	0	50	89	50	130
Dibromomethane	1	42.491	0	50	85	50	130
1,2-Dichloropropane	1	40.7407	0	50	81	50	130
Trichloroethene	1	42.5636	0	50	85	50	130
Benzene	1	43.6821	0	50	87	50	130
tert-Amyl methyl ether	1	40.7532	0	50	82	50	130
Iso-propylacetate	1	40.1703	0	50	80	50	130
Methyl methacrylate	1	40.2357	0	50	80	50	130
Dibromochloromethane	1	40.0129	0	50	80	50	130
2-Chloroethylvinylether	1	57.1308	0	50	114	50	130
cis-1,3-Dichloropropene	1	39.5311	0	50	79	50	130
trans-1,3-Dichloropropene	1	40.0563	0	50	80	50	130
Ethyl methacrylate	1	37.3479	0	50	75	50	130
1,1,2-Trichloroethane	1	38.0909	0	50	76	50	130
1,2-Dibromoethane	1	39.5477	0	50	79	50	130
1,3-Dichloropropane	1	38.7219	0	50	77	50	130
4-Methyl-2-Pentanone	1	40.6745	0	50	81	20	130
2-Hexanone	1	42.2902	0	50	86	20	130
Tetrachloroethene	1	39.5259	0	50	79	50	130
Toluene	1	39.2643	0	50	79	50	130
1,1,1,2-Tetrachloroethane	1	38.2176	0	50	76	50	130
Chlorobenzene	1	37.1782	0	50	74	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97012

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	38.8305	0	50	78	50	130
n-Amyl acetate	1	40.9122	0	50	82	50	130
Bromoform	**1**	**38.7561**	**0**	**50**	**78**	**20**	**130**
Ethylbenzene	**1**	**41.2913**	**0**	**50**	**83**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**40.787**	**0**	**50**	**82**	**50**	**130**
Styrene	**1**	**38.7163**	**0**	**50**	**77**	**50**	**130**
m&p-Xylenes	**1**	**82.5199**	**0**	**100**	**83**	**50**	**130**
o-Xylene	**1**	**39.3149**	**0**	**50**	**79**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	41.3156	0	50	83	20	130
1,3-Dichlorobenzene	**1**	**36.4072**	**0**	**50**	**73**	**50**	**130**
1,4-Dichlorobenzene	**1**	**35.196**	**0**	**50**	**70**	**50**	**130**
1,2-Dichlorobenzene	**1**	**35.5815**	**0**	**50**	**71**	**50**	**130**
Isopropylbenzene	**1**	**40.5756**	**0**	**50**	**81**	**50**	**130**
Cyclohexanone	1	214.5899	0	250	86	50	130
Camphene	1	40.2107	0	50	80	50	130
1,2,3-Trichloropropane	1	41.1463	0	50	82	50	130
2-Chlorotoluene	1	35.8958	0	50	72	50	130
p-Ethyltoluene	1	36.4524	0	50	73	50	130
4-Chlorotoluene	1	38.2444	0	50	76	50	130
n-Propylbenzene	1	40.0418	0	50	80	50	130
Bromobenzene	1	38.2346	0	50	76	50	130
1,3,5-Trimethylbenzene	1	39.2102	0	50	78	50	130
Butyl methacrylate	1	37.3813	0	50	75	50	130
t-Butylbenzene	1	39.1581	0	50	78	50	130
1,2,4-Trimethylbenzene	1	39.2684	0	50	79	50	130
sec-Butylbenzene	1	40.0334	0	50	80	50	130
4-Isopropyltoluene	1	37.9732	0	50	76	50	130
n-Butylbenzene	1	39.2466	0	50	78	50	130
p-Diethylbenzene	1	35.3333	0	50	71	50	130
1,2,4,5-Tetramethylbenzene	1	32.0163	0	50	64	50	130
1,2-Dibromo-3-Chloropropane	**1**	**44.4515**	**0**	**50**	**89**	**50**	**130**
Camphor	1	473.0061	0	500	95	50	130
Hexachlorobutadiene	1	35.437	0	50	71	50	130
1,2,4-Trichlorobenzene	**1**	**34.1376**	**0**	**50**	**68**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**33.5453**	**0**	**50**	**67**	**50**	**130**
Naphthalene	1	31.9404	0	50	64	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97012

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M146296.D	AD26688-001(MS)	10/20/2021 1:24:00 PM
Non Spike(If applicable):	6M146298.D	AD26688-001	10/20/2021 2:06:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	26.684	0	50	53	20	130
Dichlorodifluoromethane	1	87.0973	0	50	174*	20	130
Chloromethane	1	47.1664	0	50	94	20	130
Bromomethane	1	48.0063	0	50	96	20	130
Vinyl Chloride	1	51.0887	0	50	102	20	130
Chloroethane	1	51.7993	0	50	104	20	130
Trichlorofluoromethane	1	54.7847	0	50	110	20	130
Ethyl ether	1	45.0868	0	50	90	50	130
Furan	1	42.8809	0	50	86	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	41.1425	0	50	82	50	130
Methylene Chloride	1	40.7044	0	50	81	50	130
Acrolein	1	75.399	0	200	38	20	130
Acrylonitrile	1	36.451	0	50	73	20	130
Iodomethane	1	32.4747	0	50	65	50	130
Acetone	1	233.1817	0	200	117	20	130
Carbon Disulfide	1	32.7165	0	50	65	50	130
t-Butyl Alcohol	1	239.5926	0	200	120	20	130
n-Hexane	1	28.8629	0	50	58	50	130
Di-isopropyl-ether	1	35.8517	0	50	72	50	130
1,1-Dichloroethene	1	44.0989	0	50	88	50	130
Methyl Acetate	1	63.6826	0	50	127	50	130
Methyl-t-butyl ether	1	42.1051	0	50	84	50	130
1,1-Dichloroethane	1	40.9271	0	50	82	50	130
trans-1,2-Dichloroethene	1	40.5097	0	50	81	50	130
Ethyl-t-butyl ether	1	40.6659	0	50	81	50	130
cis-1,2-Dichloroethene	1	36.3785	0	50	73	50	130
Bromochloromethane	1	37.8537	0	50	76	50	130
2,2-Dichloropropane	1	33.4868	0	50	67	50	130
Ethyl acetate	1	16.3488	0	50	33*	50	130
1,4-Dioxane	1	2515.411	0	2500	101	50	130
1,1-Dichloropropene	1	37.1615	0	50	74	50	130
Chloroform	1	40.1393	0	50	80	50	130
Cyclohexane	1	30.9011	0	50	62	50	130
1,2-Dichloroethane	1	40.1282	0	50	80	50	130
2-Butanone	1	43.2502	0	50	87	20	130
1,1,1-Trichloroethane	1	40.145	0	50	80	50	130
Carbon Tetrachloride	1	39.8129	0	50	80	50	130
Vinyl Acetate	1	25.0014	0	50	50	50	130
Bromodichloromethane	1	38.2664	0	50	77	50	130
Methylcyclohexane	1	29.7767	0	50	60	50	130
Dibromomethane	1	40.3408	0	50	81	50	130
1,2-Dichloropropane	1	37.6173	0	50	75	50	130
Trichloroethene	1	35.8741	0	50	72	50	130
Benzene	1	39.9574	0	50	80	50	130
tert-Amyl methyl ether	1	41.6265	0	50	83	50	130
Iso-propylacetate	1	19.6556	0	50	39*	50	130
Methyl methacrylate	1	52.8803	0	50	106	50	130
Dibromochloromethane	1	36.1369	0	50	72	50	130
2-Chloroethylvinylether	1	77.4635	13.1433	50	129	50	130
cis-1,3-Dichloropropene	1	35.5957	0	50	71	50	130
trans-1,3-Dichloropropene	1	35.905	0	50	72	50	130
Ethyl methacrylate	1	19.6481	0	50	39*	50	130
1,1,2-Trichloroethane	1	38.5008	0	50	77	50	130
1,2-Dibromoethane	1	35.9731	0	50	72	50	130
1,3-Dichloropropane	1	37.4823	0	50	75	50	130
4-Methyl-2-Pentanone	1	36.0534	0	50	72	20	130
2-Hexanone	1	32.0894	0	50	64	20	130
Tetrachloroethene	1	28.2955	0	50	57	50	130
Toluene	1	33.9841	0	50	68	50	130
1,1,1,2-Tetrachloroethane	1	33.5331	0	50	67	50	130
Chlorobenzene	1	30.0935	0	50	60	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97012

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	13.3666	0	50	27*	50	130
n-Amyl acetate	1	9.2813	0	50	19*	50	130
Bromoform	**1**	**36.6852**	**0**	**50**	**73**	**20**	**130**
Ethylbenzene	**1**	**31.6271**	**0**	**50**	**63**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**36.7553**	**0**	**50**	**74**	**50**	**130**
Styrene	**1**	**29.8073**	**0**	**50**	**60**	**50**	**130**
m&p-Xylenes	**1**	**62.9598**	**0**	**100**	**63**	**50**	**130**
o-Xylene	**1**	**31.2903**	**0**	**50**	**63**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	30.2612	0	50	61	20	130
1,3-Dichlorobenzene	**1**	**24.2357**	**0**	**50**	**48***	**50**	**130**
1,4-Dichlorobenzene	**1**	**23.4112**	**0**	**50**	**47***	**50**	**130**
1,2-Dichlorobenzene	**1**	**25.2218**	**0**	**50**	**50**	**50**	**130**
Isopropylbenzene	**1**	**28.4111**	**0**	**50**	**57**	**50**	**130**
Cyclohexanone	1	238.8386	0	250	96	50	130
Camphene	1	21.9777	0	50	44*	50	130
1,2,3-Trichloropropane	1	36.3753	0	50	73	50	130
2-Chlorotoluene	1	26.1134	0	50	52	50	130
p-Ethyltoluene	1	24.1673	0	50	48*	50	130
4-Chlorotoluene	1	25.1722	0	50	50	50	130
n-Propylbenzene	1	26.1431	0	50	52	50	130
Bromobenzene	1	29.0761	0	50	58	50	130
1,3,5-Trimethylbenzene	1	26.582	0	50	53	50	130
Butyl methacrylate	1	19.3802	0	50	39*	50	130
t-Butylbenzene	1	24.9299	0	50	50	50	130
1,2,4-Trimethylbenzene	1	25.8162	0	50	52	50	130
sec-Butylbenzene	1	23.6684	0	50	47*	50	130
4-Isopropyltoluene	1	21.3226	0	50	43*	50	130
n-Butylbenzene	1	21.1221	0	50	42*	50	130
p-Diethylbenzene	1	19.4505	0	50	39*	50	130
1,2,4,5-Tetramethylbenzene	1	18.2857	0	50	37*	50	130
1,2-Dibromo-3-Chloropropane	**1**	**37.4293**	**0**	**50**	**75**	**50**	**130**
Camphor	1	427.8242	0	500	86	50	130
Hexachlorobutadiene	1	15.3913	0	50	31*	50	130
1,2,4-Trichlorobenzene	**1**	**17.8087**	**0**	**50**	**36***	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**17.5616**	**0**	**50**	**35***	**50**	**130**
Naphthalene	1	21.7801	0	50	44*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97012

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M146297.D	AD26688-001(MSD)	10/20/2021 1:45:00 PM
Non Spike(If applicable):	6M146298.D	AD26688-001	10/20/2021 2:06:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	23.6773	0	50	47	20	130
Dichlorodifluoromethane	1	86.2414	0	50	172*	20	130
Chloromethane	1	47.5347	0	50	95	20	130
Bromomethane	1	48.0676	0	50	96	20	130
Vinyl Chloride	1	50.914	0	50	102	20	130
Chloroethane	1	52.5939	0	50	105	20	130
Trichlorofluoromethane	1	54.5792	0	50	109	20	130
Ethyl ether	1	44.1463	0	50	88	50	130
Furan	1	44.965	0	50	90	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	41.4398	0	50	83	50	130
Methylene Chloride	1	41.5876	0	50	83	50	130
Acrolein	1	81.8352	0	200	41	20	130
Acrylonitrile	1	35.7463	0	50	71	20	130
Iodomethane	1	34.0735	0	50	68	50	130
Acetone	1	233.3623	0	200	117	20	130
Carbon Disulfide	1	33.279	0	50	67	50	130
t-Butyl Alcohol	1	246.2083	0	200	123	20	130
n-Hexane	1	31.1466	0	50	62	50	130
Di-isopropyl-ether	1	36.4722	0	50	73	50	130
1,1-Dichloroethene	1	43.8651	0	50	88	50	130
Methyl Acetate	1	61.8156	0	50	124	50	130
Methyl-t-butyl ether	1	43.1612	0	50	86	50	130
1,1-Dichloroethane	1	40.5423	0	50	81	50	130
trans-1,2-Dichloroethene	1	39.0907	0	50	78	50	130
Ethyl-t-butyl ether	1	41.9486	0	50	84	50	130
cis-1,2-Dichloroethene	1	37.9994	0	50	76	50	130
Bromochloromethane	1	37.0974	0	50	74	50	130
2,2-Dichloropropane	1	34.0376	0	50	68	50	130
Ethyl acetate	1	14.8533	0	50	30*	50	130
1,4-Dioxane	1	2703.308	0	2500	108	50	130
1,1-Dichloropropene	1	37.765	0	50	76	50	130
Chloroform	1	39.8099	0	50	80	50	130
Cyclohexane	1	32.097	0	50	64	50	130
1,2-Dichloroethane	1	40.442	0	50	81	50	130
2-Butanone	1	44.2413	0	50	88	20	130
1,1,1-Trichloroethane	1	41.6002	0	50	83	50	130
Carbon Tetrachloride	1	39.6434	0	50	79	50	130
Vinyl Acetate	1	24.3939	0	50	49*	50	130
Bromodichloromethane	1	38.2156	0	50	76	50	130
Methylcyclohexane	1	30.2477	0	50	60	50	130
Dibromomethane	1	40.9258	0	50	82	50	130
1,2-Dichloropropane	1	38.6233	0	50	77	50	130
Trichloroethene	1	36.6691	0	50	73	50	130
Benzene	1	40.2109	0	50	80	50	130
tert-Amyl methyl ether	1	42.6382	0	50	85	50	130
Iso-propylacetate	1	21.1436	0	50	42*	50	130
Methyl methacrylate	1	53.1551	0	50	106	50	130
Dibromochloromethane	1	38.5271	0	50	77	50	130
2-Chloroethylvinylether	1	68.3404	13.1433	50	110	50	130
cis-1,3-Dichloropropene	1	35.5344	0	50	71	50	130
trans-1,3-Dichloropropene	1	36.2171	0	50	72	50	130
Ethyl methacrylate	1	19.4872	0	50	39*	50	130
1,1,2-Trichloroethane	1	38.6335	0	50	77	50	130
1,2-Dibromoethane	1	37.1646	0	50	74	50	130
1,3-Dichloropropane	1	38.2288	0	50	76	50	130
4-Methyl-2-Pentanone	1	34.2573	0	50	69	20	130
2-Hexanone	1	32.5923	0	50	65	20	130
Tetrachloroethene	1	29.6436	0	50	59	50	130
Toluene	1	34.5406	0	50	69	50	130
1,1,1,2-Tetrachloroethane	1	33.4056	0	50	67	50	130
Chlorobenzene	1	31.0496	0	50	62	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97012

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	13.7375	0	50	27*	50	130
n-Amyl acetate	1	9.7084	0	50	19*	50	130
Bromoform	1	37.6776	0	50	75	20	130
Ethylbenzene	1	31.6061	0	50	63	50	130
1,1,2,2-Tetrachloroethane	1	38.0857	0	50	76	50	130
Styrene	1	31.1299	0	50	62	50	130
m&p-Xylenes	1	66.7593	0	100	67	50	130
o-Xylene	1	32.8435	0	50	66	50	130
trans-1,4-Dichloro-2-butene	1	29.5971	0	50	59	20	130
1,3-Dichlorobenzene	1	24.885	0	50	50	50	130
1,4-Dichlorobenzene	1	24.4308	0	50	49*	50	130
1,2-Dichlorobenzene	1	24.7403	0	50	49*	50	130
Isopropylbenzene	1	29.9034	0	50	60	50	130
Cyclohexanone	1	238.9907	0	250	96	50	130
Camphene	1	23.9152	0	50	48*	50	130
1,2,3-Trichloropropane	1	36.97	0	50	74	50	130
2-Chlorotoluene	1	26.983	0	50	54	50	130
p-Ethyltoluene	1	24.46	0	50	49*	50	130
4-Chlorotoluene	1	26.6367	0	50	53	50	130
n-Propylbenzene	1	27.8689	0	50	56	50	130
Bromobenzene	1	29.3075	0	50	59	50	130
1,3,5-Trimethylbenzene	1	27.7692	0	50	56	50	130
Butyl methacrylate	1	20.3802	0	50	41*	50	130
t-Butylbenzene	1	27.02	0	50	54	50	130
1,2,4-Trimethylbenzene	1	26.7093	0	50	53	50	130
sec-Butylbenzene	1	25.3141	0	50	51	50	130
4-Isopropyltoluene	1	22.4666	0	50	45*	50	130
n-Butylbenzene	1	22.0564	0	50	44*	50	130
p-Diethylbenzene	1	20.0854	0	50	40*	50	130
1,2,4,5-Tetramethylbenzene	1	19.3136	0	50	39*	50	130
1,2-Dibromo-3-Chloropropane	1	40.1378	0	50	80	50	130
Camphor	1	450.019	0	500	90	50	130
Hexachlorobutadiene	1	16.4597	0	50	33*	50	130
1,2,4-Trichlorobenzene	1	17.8225	0	50	36*	50	130
1,2,3-Trichlorobenzene	1	18.7029	0	50	37*	50	130
Naphthalene	1	22.1756	0	50	44*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS97012

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M146297.D	AD26688-001(MSD)	10/20/2021 1:45:00 PM
Duplicate(If applicable):	6M146296.D	AD26688-001(MS)	10/20/2021 1:24:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	23.6773	26.684	12	30
Dichlorodifluoromethane	1	86.2414	87.0973	0.99	30
Chloromethane	1	47.5347	47.1664	0.78	30
Bromomethane	1	48.0676	48.0063	0.13	30
Vinyl Chloride	1	50.914	51.0887	0.34	40
Chloroethane	1	52.5939	51.7993	1.5	30
Trichlorofluoromethane	1	54.5792	54.7847	0.38	30
Ethyl ether	1	44.1463	45.0868	2.1	30
Furan	1	44.965	42.8809	4.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	41.4398	41.1425	0.72	30
Methylene Chloride	1	41.5876	40.7044	2.1	30
Acrolein	1	81.8352	75.399	8.2	30
Acrylonitrile	1	35.7463	36.451	2	30
Iodomethane	1	34.0735	32.4747	4.8	30
Acetone	1	233.3623	233.1817	0.08	30
Carbon Disulfide	1	33.279	32.7165	1.7	30
t-Butyl Alcohol	1	246.2083	239.5926	2.7	30
n-Hexane	1	31.1466	28.8629	7.6	30
Di-isopropyl-ether	1	36.4722	35.8517	1.7	30
1,1-Dichloroethene	1	43.8651	44.0989	0.53	40
Methyl Acetate	1	61.8156	63.6826	3	30
Methyl-t-butyl ether	1	43.1612	42.1051	2.5	30
1,1-Dichloroethane	1	40.5423	40.9271	0.94	40
trans-1,2-Dichloroethene	1	39.0907	40.5097	3.6	30
Ethyl-t-butyl ether	1	41.9486	40.6659	3.1	30
cis-1,2-Dichloroethene	1	37.9994	36.3785	4.4	30
Bromochloromethane	1	37.0974	37.8537	2	30
2,2-Dichloropropane	1	34.0376	33.4868	1.6	30
Ethyl acetate	1	14.8533	16.3488	9.6	30
1,4-Dioxane	1	2703.308	2515.411	7.2	30
1,1-Dichloropropene	1	37.765	37.1615	1.6	30
Chloroform	1	39.8099	40.1393	0.82	40
Cyclohexane	1	32.097	30.9011	3.8	30
1,2-Dichloroethane	1	40.442	40.1282	0.78	40
2-Butanone	1	44.2413	43.2502	2.3	40
1,1,1-Trichloroethane	1	41.6002	40.145	3.6	30
Carbon Tetrachloride	1	39.6434	39.8129	0.43	40
Vinyl Acetate	1	24.3939	25.0014	2.5	30
Bromodichloromethane	1	38.2156	38.2664	0.13	30
Methylcyclohexane	1	30.2477	29.7767	1.6	30
Dibromomethane	1	40.9258	40.3408	1.4	30
1,2-Dichloropropane	1	38.6233	37.6173	2.6	30
Trichloroethene	1	36.6691	35.8741	2.2	40
Benzene	1	40.2109	39.9574	0.63	40
tert-Amyl methyl ether	1	42.6382	41.6265	2.4	30
Iso-propylacetate	1	21.1436	19.6556	7.3	30
Methyl methacrylate	1	53.1551	52.8803	0.52	30
Dibromochloromethane	1	38.5271	36.1369	6.4	30
2-Chloroethylvinylether	1	68.3404	77.4635	13	30
cis-1,3-Dichloropropene	1	35.5344	35.5957	0.17	30
trans-1,3-Dichloropropene	1	36.2171	35.905	0.87	30
Ethyl methacrylate	1	19.4872	19.6481	0.82	30
1,1,2-Trichloroethane	1	38.6335	38.5008	0.34	30
1,2-Dibromoethane	1	37.1646	35.9731	3.3	30
1,3-Dichloropropane	1	38.2288	37.4823	2	30
4-Methyl-2-Pentanone	1	34.2573	36.0534	5.1	30
2-Hexanone	1	32.5923	32.0894	1.6	30
Tetrachloroethene	1	29.6436	28.2955	4.7	40
Toluene	1	34.5406	33.9841	1.6	40
1,1,1,2-Tetrachloroethane	1	33.4056	33.5331	0.38	30
Chlorobenzene	1	31.0496	30.0935	3.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS97012

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	13.7375	13.3666	2.7	30
n-Amyl acetate	1	9.7084	9.2813	4.5	30
Bromoform	1	37.6776	36.6852	2.7	30
Ethylbenzene	1	31.6061	31.6271	0.07	30
1,1,2,2-Tetrachloroethane	1	38.0857	36.7553	3.6	30
Styrene	1	31.1299	29.8073	4.3	30
m&p-Xylenes	1	66.7593	62.9598	5.9	30
o-Xylene	1	32.8435	31.2903	4.8	30
trans-1,4-Dichloro-2-butene	1	29.5971	30.2612	2.2	30
1,3-Dichlorobenzene	1	24.885	24.2357	2.6	30
1,4-Dichlorobenzene	1	24.4308	23.4112	4.3	40
1,2-Dichlorobenzene	1	24.7403	25.2218	1.9	40
Isopropylbenzene	1	29.9034	28.4111	5.1	30
Cyclohexanone	1	238.9907	238.8386	0.06	30
Camphene	1	23.9152	21.9777	8.4	30
1,2,3-Trichloropropane	1	36.97	36.3753	1.6	30
2-Chlorotoluene	1	26.983	26.1134	3.3	30
p-Ethyltoluene	1	24.46	24.1673	1.2	30
4-Chlorotoluene	1	26.6367	25.1722	5.7	30
n-Propylbenzene	1	27.8689	26.1431	6.4	40
Bromobenzene	1	29.3075	29.0761	0.79	30
1,3,5-Trimethylbenzene	1	27.7692	26.582	4.4	30
Butyl methacrylate	1	20.3802	19.3802	5	30
t-Butylbenzene	1	27.02	24.9299	8	30
1,2,4-Trimethylbenzene	1	26.7093	25.8162	3.4	30
sec-Butylbenzene	1	25.3141	23.6684	6.7	40
4-Isopropyltoluene	1	22.4666	21.3226	5.2	30
n-Butylbenzene	1	22.0564	21.1221	4.3	30
p-Diethylbenzene	1	20.0854	19.4505	3.2	30
1,2,4,5-Tetramethylbenzene	1	19.3136	18.2857	5.5	30
1,2-Dibromo-3-Chloropropane	1	40.1378	37.4293	7	30
Camphor	1	450.019	427.8242	5.1	30
Hexachlorobutadiene	1	16.4597	15.3913	6.7	30
1,2,4-Trichlorobenzene	1	17.8225	17.8087	0.08	30
1,2,3-Trichlorobenzene	1	18.7029	17.5616	6.3	30
Naphthalene	1	22.1756	21.7801	1.8	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M146294.D
Matrix: Soil

Blank Analysis Date: 10/20/21 12:43
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD26731-001	6M146318.D	10/20/21 21:00
AD26731-002	6M146315.D	10/20/21 19:58
AD26731-002	6M146313.D	10/20/21 19:17
AD26731-003	6M146305.D	10/20/21 16:31
AD26688-001	6M146298.D	10/20/21 14:06
AD26688-001(MSD	6M146297.D	10/20/21 13:45
AD26688-001(MS)	6M146296.D	10/20/21 13:24
MBS97012	6M146295.D	10/20/21 13:03

Form 5

Tune Name: BFB TUNE **Data File:** 6M144906.D
Instrument: GCMS 6 **Analysis Date:** 09/15/21 19:07
Method: EPA 8260D
Tune Scan/Time Range: Average of 7.367 to 7.409 min

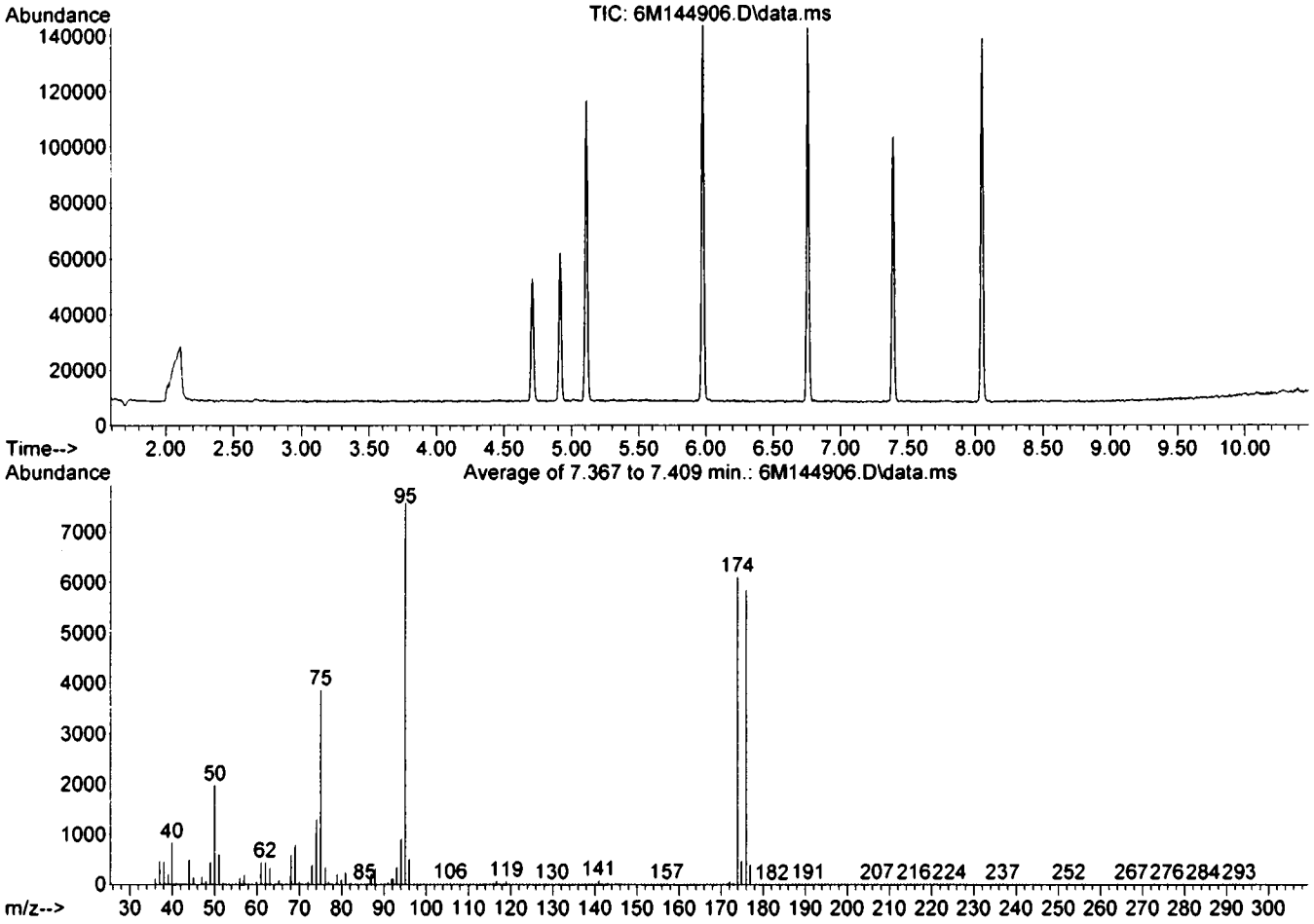
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	26.2	1981	PASS
75	95	30	60	51.2	3874	PASS
95	95	100	100	100.0	7571	PASS
96	95	5	9	6.8	513	PASS
173	174	0.00	2	0.6	36	PASS
174	95	50	100	80.7	6111	PASS
175	174	5	9	7.7	472	PASS
176	174	95	101	95.8	5854	PASS
177	176	5	9	6.7	395	PASS

Data File	Sample Number	Analysis Date:
6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13
6M144910.D	CAL @ 1 PPB	09/15/21 20:34
6M144911.D	CAL @ 2 PPB	09/15/21 20:55
6M144912.D	CAL @ 5 PPB	09/15/21 21:16
6M144913.D	CAL @ 20 PPB	09/15/21 21:36
6M144914.D	CAL @ 50 PPB	09/15/21 21:57
6M144915.D	CAL @ 500 PPB	09/15/21 22:18
6M144917.D	CAL @ 250 PPB	09/15/21 22:59
6M144919.D	CAL @ 100 PPB	09/15/21 23:40
6M144922.D	ICV	09/16/21 00:42

Data Path : G:\GcMsData\2021\GCMS_6\Data\09-15-21\
Data File : 6M144906.D
Acq On : 15 Sep 2021 19:07
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_6\MethodQt\6M_S0915.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 16 14:20:25 2021



Spectrum Information: Average of 7.367 to 7.409 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.2	1981	PASS
75	95	30	60	51.2	3874	PASS
95	95	100	100	100.0	7571	PASS
96	95	5	9	6.8	513	PASS
173	174	0.00	2	0.6	36	PASS
174	95	50	100	80.7	6111	PASS
175	174	5	9	7.7	472	PASS
176	174	95	101	95.8	5854	PASS
177	176	5	9	6.7	395	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M146289.D
Analysis Date: 10/20/21 10:59
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.385 to 7.397 min

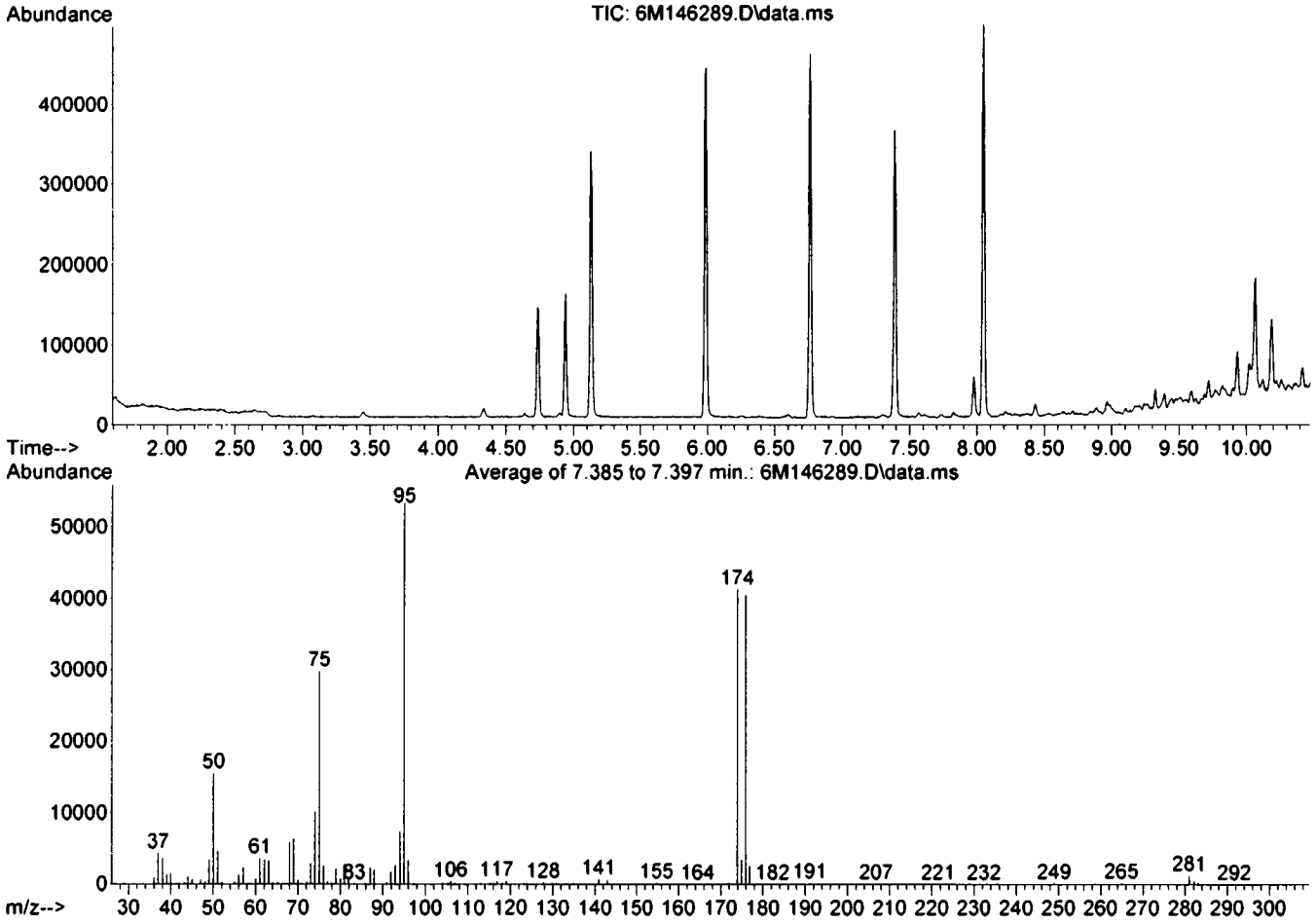
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	29.2	15547	PASS
75	95	30	60	56.0	29848	PASS
95	95	100	100	100.0	53296	PASS
96	95	5	9	6.5	3438	PASS
173	174	0.00	2	0.3	109	PASS
174	95	50	100	77.4	41237	PASS
175	174	5	9	8.4	3466	PASS
176	174	95	101	98.2	40515	PASS
177	176	5	9	6.4	2611	PASS

Data File	Sample Number	Analysis Date:
6M146290.D	CAL @ 50PPB	10/20/21 11:20
6M146292.D	BLK	10/20/21 12:01
6M146293.D	BLK	10/20/21 12:22
6M146294.D	DAILY BLANK	10/20/21 12:43
6M146295.D	MBS97012	10/20/21 13:03
6M146296.D	AD26688-001(MS)	10/20/21 13:24
6M146297.D	AD26688-001(MSD	10/20/21 13:45
6M146298.D	AD26688-001	10/20/21 14:06
6M146299.D	BLK	10/20/21 14:26
6M146300.D	AD26744-002	10/20/21 14:47
6M146301.D	AD26744-004	10/20/21 15:08
6M146302.D	AD26744-005	10/20/21 15:28
6M146303.D	AD26744-001	10/20/21 15:49
6M146304.D	AD26744-003	10/20/21 16:10
6M146305.D	AD26731-003	10/20/21 16:31
6M146306.D	BLK	10/20/21 16:51
6M146307.D	AD26728-003	10/20/21 17:12
6M146308.D	AD26728-004	10/20/21 17:33
6M146309.D	AD26728-005	10/20/21 17:54
6M146310.D	AD26728-006	10/20/21 18:14
6M146311.D	AD26728-007	10/20/21 18:35
6M146312.D	AD26728-008	10/20/21 18:56
6M146313.D	AD26731-002	10/20/21 19:17
6M146315.D	AD26731-002	10/20/21 19:58
6M146316.D	BLK	10/20/21 20:19
6M146318.D	AD26731-001	10/20/21 21:00
6M146319.D	BLK	10/20/21 21:25
6M146320.D	AD26694-002	10/20/21 21:46
6M146321.D	AD26694-002	10/20/21 22:07
6M146322.D	STD	10/20/21 22:28
6M146325.D	BLK	10/20/21 23:23

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-20-21\
Data File : 6M146289.D
Acq On : 20 Oct 2021 10:59
Operator : JM
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_6\MethodQt\6M_S0915.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 16 14:20:25 2021



Spectrum Information: Average of 7.385 to 7.397 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.2	15547	PASS
75	95	30	60	56.0	29848	PASS
95	95	100	100	100.0	53296	PASS
96	95	5	9	6.5	3438	PASS
173	174	0.00	2	0.3	109	PASS
174	95	50	100	77.4	41237	PASS
175	174	5	9	8.4	3466	PASS
176	174	95	101	98.2	40515	PASS
177	176	5	9	6.4	2611	PASS

1101901 0046

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M144913.D	CAL @ 20 PPB	09/15/21 21:36	2	6M144912.D	CAL @ 5 PPB	09/15/21 21:16
3	6M144911.D	CAL @ 2 PPB	09/15/21 20:55	4	6M144914.D	CAL @ 50 PPB	09/15/21 21:57
5	6M144919.D	CAL @ 100 PPB	09/15/21 23:40	6	6M144917.D	CAL @ 250 PPB	09/15/21 22:59
7	6M144915.D	CAL @ 500 PPB	09/15/21 22:18	8	6M144910.D	CAL @ 1 PPB	09/15/21 20:34
9	6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4689	0.4853	0.5001	0.4773	0.4658	0.5026	0.4881	-----	-----	0.484	1.67	1.00	1.00	3.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.1149	0.1275	0.1407	0.1145	0.1110	0.1211	0.1165	-----	-----	0.121	1.65	0.999	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.3057	0.3420	0.3819	0.3117	0.2980	0.3229	0.3072	-----	-----	0.324	1.84	0.999	1.00	9.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Qua	0.1597	0.2189	0.2457	0.1393	0.1595	0.1604	0.1501	-----	-----	0.176	2.25	0.999	1.00	23	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.2861	0.3029	0.3269	0.2791	0.2738	0.2923	0.2820	-----	-----	0.292	1.93	1.00	1.00	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.1619	0.1757	0.1879	0.1694	0.1673	0.1782	0.1719	-----	-----	0.173	2.34	1.00	1.00	4.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.3543	0.3905	0.3898	0.3360	0.3396	0.3670	0.3510	-----	-----	0.361	2.57	0.999	1.00	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1976	0.2057	0.1981	0.1871	0.1903	0.2040	0.2028	-----	-----	0.198	2.82	1.00	1.00	3.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.3823	0.4017	0.4209	0.3861	0.3843	0.4125	0.3962	-----	-----	0.398	2.86	1.00	1.00	3.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1924	0.1906	0.2110	0.1836	0.1930	0.2069	0.1978	-----	-----	0.197	3.04	0.999	1.00	4.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.2478	0.2869	0.3097	0.2300	0.2294	0.2423	0.2344	-----	-----	0.254	3.45	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0426	0.0418	0.0416	0.0462	0.0449	0.0483	0.0456	-----	-----	0.0445	2.94	0.999	1.00	5.7		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.1193	0.1196	0.1485	0.1198	0.1148	0.1227	0.1192	-----	-----	0.123	3.65	1.00	1.00	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.1423	0.0855	0.0694	0.1958	0.1995	0.2448	0.2486	-----	-----	0.169	3.18	0.999	0.999	43		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0948	0.1135	0.1228	0.0894	0.0837	0.0826	0.0824	-----	-----	0.0956	3.07	1.00	1.00	17	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.6510	0.7181	0.8081	0.6412	0.6494	0.7060	0.6746	-----	-----	0.693	3.25	0.999	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0283	0.0312	0.0382	0.0291	0.0310	0.0330	0.0334	-----	-----	0.0321	3.52	1.00	1.00	10		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.3337	0.3367	0.3690	0.3467	0.3614	0.4025	0.3901	-----	-----	0.363	3.92	0.999	0.999	7.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.9349	0.9566	0.9962	0.9669	0.9784	1.0551	1.0527	-----	-----	0.992	4.07	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.3837	0.4204	0.4187	0.3763	0.3860	0.4126	0.3958	-----	-----	0.399	3.04	0.999	1.00	4.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.2559	0.2728	0.3233	0.2549	0.2576	0.2669	0.2577	-----	-----	0.270	3.36	1.00	1.00	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.5456	0.5274	0.6120	0.5418	0.5599	0.6151	0.6258	0.6162	-----	0.581	3.69	1.00	1.00	7.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.4693	0.5206	0.5255	0.4612	0.4637	0.5012	0.4775	-----	-----	0.488	4.04	0.999	1.00	5.6	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.2255	0.2429	0.2643	0.2239	0.2242	0.2411	0.2366	-----	-----	0.237	3.70	1.00	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.7009	0.6750	0.7129	0.7114	0.7244	0.7759	0.7743	-----	-----	0.725	4.34	1.00	1.00	5.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.4607	0.4689	0.5286	0.4773	0.4810	0.5285	0.5161	-----	-----	0.494	4.45	1.00	1.00	5.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.2867	0.3202	0.3794	0.2728	0.2652	0.2727	0.2631	-----	-----	0.294	4.60	1.00	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Qua	0.1953	0.1677	0.1746	0.2483	0.2976	0.3456	0.3288	-----	-----	0.251	4.45	0.998	0.999	30		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.2966	0.3135	0.3579	0.3163	0.3198	0.3335	0.3330	-----	-----	0.324	4.47	1.00	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0029	0.0030	0.0026	0.0029	0.0029	0.0030	0.0030	-----	-----	0.00296	5.53	1.00	1.00	5.7		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.3067	0.3210	0.3354	0.3118	0.3211	0.3496	0.3382	-----	-----	0.326	4.86	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.4480	0.5060	0.5693	0.4334	0.4361	0.4593	0.4439	-----	-----	0.471	4.64	1.00	1.00	11	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2742	0.2824	0.2903	0.2751	0.2720	0.2746	0.2713	0.2962	0.2949	0.281	4.74	-1	-1	3.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.4199	0.4317	0.4514	0.4252	0.4538	0.5050	0.4902	-----	-----	0.454	4.81	0.999	0.999	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1680	0.1707	0.1707	0.1635	0.1595	0.1593	0.1601	0.1791	0.1724	0.167	4.94	-1	-1	4.1		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4112	0.4380	0.4904	0.4001	0.3816	0.4069	0.4029	-----	-----	0.419	4.98	1.00	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.1485	0.1518	0.1656	0.1236	0.1344	0.1425	0.1463	-----	-----	0.145	4.45	0.999	1.00	9.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.3775	0.3897	0.4483	0.3674	0.3822	0.4128	0.3932	-----	-----	0.396	4.77	0.999	1.00	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.3247	0.3072	0.2908	0.3168	0.3227	0.3537	0.3463	-----	-----	0.323	4.87	1.00	1.00	6.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.7638	0.7933	0.8132	0.8026	0.8398	0.9827	0.9819	-----	-----	0.854	4.07	0.999	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.3508	0.3737	0.4286	0.3464	0.3431	0.3664	0.3659	-----	-----	0.368	5.60	1.00	1.00	7.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.00

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0047

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M144913.D	CAL @ 20 PPB	09/15/21 21:36	2	6M144912.D	CAL @ 5 PPB	09/15/21 21:16
3	6M144911.D	CAL @ 2 PPB	09/15/21 20:55	4	6M144914.D	CAL @ 50 PPB	09/15/21 21:57
5	6M144919.D	CAL @ 100 PPB	09/15/21 23:40	6	6M144917.D	CAL @ 250 PPB	09/15/21 22:59
7	6M144915.D	CAL @ 500 PPB	09/15/21 22:18	8	6M144910.D	CAL @ 1 PPB	09/15/21 20:34
9	6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.3416	0.3401	0.3324	0.3446	0.3790	0.4176	0.4103	-----	-----	0.367	5.45	1.00	1.00	9.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1584	0.1637	0.1652	0.1481	0.1456	0.1575	0.1565	-----	-----	0.156	5.53	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.2875	0.2976	0.3288	0.2784	0.2806	0.3017	0.3024	-----	-----	0.297	5.46	1.00	1.00	5.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.2421	0.2445	0.2805	0.2372	0.2436	0.2613	0.2583	-----	-----	0.253	5.34	1.00	1.00	6.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.8984	0.9266	0.9617	0.8925	0.8976	0.9696	0.9515	0.9276	-----	0.928	4.98	1.00	1.00	3.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.5523	0.5358	0.5309	0.5557	0.5672	0.6042	0.6095	-----	-----	0.565	5.03	1.00	1.00	5.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.6595	0.6525	0.6895	0.6828	0.7005	0.7445	0.7433	-----	-----	0.696	4.98	1.00	1.00	5.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.3310	0.3260	0.2521	0.3344	0.3411	0.3627	0.3501	-----	-----	0.328	5.48	1.00	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.3138	0.3021	0.3276	0.3228	0.3211	0.3388	0.3322	-----	-----	0.323	6.45	1.00	1.00	3.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0069	0.0117	0.0135	0.0045	0.0018	0.0027	0.0032	-----	-----	0.00636	5.78	0.979	0.992	73		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.4260	0.4214	0.4133	0.4399	0.4497	0.4970	0.4909	-----	-----	0.448	5.84	1.00	1.00	7.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.3684	0.3574	0.3437	0.3902	0.3952	0.4367	0.4424	-----	-----	0.391	6.12	1.00	1.00	9.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.3300	0.3154	0.3286	0.3501	0.3598	0.3837	0.3762	-----	-----	0.349	6.14	1.00	1.00	7.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.2705	0.2893	0.3254	0.2650	0.2570	0.2698	0.2632	-----	-----	0.277	6.23	1.00	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.2642	0.2851	0.3122	0.2665	0.2688	0.2819	0.2714	0.2540	0.3404	0.283	6.53	1.00	1.00	9.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.4637	0.4906	0.4996	0.4715	0.4595	0.4829	0.4729	-----	-----	0.477	6.32	1.00	1.00	3.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.3615	0.3737	0.3751	0.3840	0.3808	0.3998	0.3888	-----	-----	0.381	5.90	1.00	1.00	3.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.2464	0.2330	0.2663	0.2696	0.2750	0.2878	0.2815	-----	-----	0.266	6.33	1.00	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.2391	0.2437	0.2777	0.2331	0.2431	0.2574	0.2484	-----	-----	0.249	6.32	1.00	1.00	5.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.2359	1.1884	1.1857	1.2546	1.2654	1.2267	1.2073	1.1462	1.1525	1.21	5.99	-1	-1	3.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7206	0.7024	0.7701	0.7181	0.7341	0.7842	0.7518	0.7149	-----	0.737	6.03	0.999	1.00	3.9	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2774	0.2782	0.3112	0.2775	0.2838	0.3032	0.2946	-----	-----	0.289	6.81	1.00	1.00	4.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.8013	0.8428	0.9459	0.7830	0.7999	0.8453	0.8171	-----	-----	0.834	6.78	1.00	1.00	6.5	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.9974	0.9239	0.9893	1.1105	1.2179	1.3496	1.3020	-----	-----	1.13	7.02	0.999	0.999	15	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.9358	0.8311	0.8583	1.0130	1.0900	1.1905	1.1377	-----	-----	1.01	7.13	0.999	0.999	14	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.3568	0.3806	0.3827	0.3690	0.3845	0.4169	0.3945	-----	-----	0.384	7.23	0.999	0.999	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.5951	0.6120	0.6556	0.6175	0.6576	0.7465	0.6785	0.5179	-----	0.635	6.82	0.998	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.6487	0.6800	0.7157	0.6421	0.6350	0.6706	0.6323	-----	-----	0.661	7.45	0.999	1.00	4.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7265	0.7607	0.7367	0.7415	0.7584	0.7397	0.7389	0.7400	0.7163	0.740	7.40	-1	-1	1.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.4708	1.4405	1.3325	1.5174	1.6477	1.8133	1.6893	-----	-----	1.56	7.10	0.998	0.999	11	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.8843	0.8700	0.8168	0.9186	0.9773	1.0635	0.9789	0.8399	0.6579	0.890	6.88	0.998	0.999	13	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8810	0.8483	0.8867	0.8885	0.9550	1.0544	0.9889	0.6845	-----	0.898	7.10	0.999	0.999	12	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.3396	0.3661	0.4154	0.3659	0.3814	0.4308	0.4096	-----	-----	0.387	7.47	0.999	0.999	8.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.1133	1.1701	1.1280	1.0772	1.1353	1.2214	1.1629	-----	-----	1.14	8.02	0.999	1.00	4.0	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.0959	1.1408	1.2978	1.0698	1.1146	1.2139	1.1487	-----	-----	1.15	8.07	0.999	0.999	6.8	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.0603	1.0714	1.1623	1.0034	1.0579	1.1530	1.1046	-----	-----	1.09	8.29	0.999	0.999	5.2	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.2835	2.3015	2.2309	2.3150	2.5273	2.7495	2.4795	2.0130	-----	2.36	7.29	0.997	0.999	9.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0236	0.0299	0.0319	0.0271	0.0339	0.0261	0.0323	-----	-----	0.0293	7.37	0.990	0.996	13		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.7971	0.7838	0.7637	0.8008	0.8903	0.9775	0.9008	-----	-----	0.845	7.47	0.998	0.999	9.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.7590	0.8715	0.8697	0.7742	0.7992	0.8672	0.8309	-----	-----	0.825	7.48	0.999	1.00	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.5451	1.6020	1.6424	1.5177	1.5897	1.7124	1.5945	-----	-----	1.60	7.59	0.999	0.999	4.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.00

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0048

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M144913.D	CAL @ 20 PPB	09/15/21 21:36	2	6M144912.D	CAL @ 5 PPB	09/15/21 21:16
3	6M144911.D	CAL @ 2 PPB	09/15/21 20:55	4	6M144914.D	CAL @ 50 PPB	09/15/21 21:57
5	6M144919.D	CAL @ 100 PPB	09/15/21 23:40	6	6M144917.D	CAL @ 250 PPB	09/15/21 22:59
7	6M144915.D	CAL @ 500 PPB	09/15/21 22:18	8	6M144910.D	CAL @ 1 PPB	09/15/21 20:34
9	6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.3782	2.3685	2.3716	2.3795	2.5061	2.7661	2.5352	-----	-----	2.47	7.58	0.998	0.999	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.5321	1.5595	1.5126	1.4977	1.5859	1.7125	1.5288	-----	-----	1.56	7.65	0.997	0.999	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	2.8104	2.8693	2.8504	2.8416	3.0102	3.2459	2.9490	2.5002	-----	2.88	7.52	0.998	0.999	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.4774	1.5929	1.6483	1.4765	1.5648	1.6786	1.5540	-----	-----	1.57	7.49	0.998	0.999	4.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	1.9807	1.9260	1.8133	1.9102	2.0718	2.2129	2.0649	1.4820	-----	1.93	7.60	0.999	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.9183	0.8802	0.8393	0.9082	0.9864	1.0595	0.9942	0.6686	-----	0.907	7.61	0.999	0.999	13	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.8580	1.9463	1.7530	1.8732	2.0350	2.2199	2.0774	1.5770	-----	1.92	7.81	0.999	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.9624	1.9225	1.8346	1.9454	2.0788	2.2782	2.1103	1.7743	-----	1.99	7.83	0.998	0.999	8.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.4687	2.4340	2.3929	2.4953	2.6842	2.9235	2.7281	1.9376	-----	2.51	7.93	0.999	0.999	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	2.0026	2.0466	2.1116	2.0105	2.1749	2.4028	2.2512	2.2163	-----	2.15	8.00	0.999	0.999	6.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	2.4243	2.3653	2.2672	2.3986	2.5394	2.8098	2.6237	2.1982	-----	2.45	8.24	0.999	0.999	8.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.1492	1.1418	1.0018	1.1953	1.2998	1.4670	1.4126	-----	-----	1.24	8.22	0.999	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	1.3265	1.2603	1.1915	1.4305	1.6556	1.9103	1.8745	-----	-----	1.52	8.68	0.999	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.1307	0.1313	0.1174	0.1373	0.1410	0.1558	0.1535	-----	-----	0.138	8.74	1.00	1.00	9.7	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0400	0.0407	0.0463	0.0513	0.0608	0.0672	0.0671	-----	-----	0.0534	9.18	0.999	0.999	22		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.3878	0.4140	0.4035	0.3736	0.4066	0.4509	0.4429	-----	-----	0.411	9.32	0.999	0.999	6.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.6265	0.6613	0.6771	0.6484	0.7048	0.7981	0.7964	-----	-----	0.702	9.23	0.999	0.999	9.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.5852	0.6426	0.6282	0.5915	0.6555	0.7432	0.7516	-----	-----	0.657	9.54	0.999	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	1.4178	1.2518	1.1737	1.5910	1.7724	2.0143	1.9819	1.0591	-----	1.53	9.40	0.999	0.999	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 9.00
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50PPB **Data File:** 6M146290.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/20/2021 11:20:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.13	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	28.29	50	20	0.1	0.484	0.274	43.42	C1
Dichlorodifluoromethane	1	0		1.65	101.86	50	20	0.1	0.121	0.246	103.72	C1
Chloromethane	1	0		1.84	64.14	50	20	0.1	0.324	0.416	28.28	C1
Bromomethane	1	0		2.25	69.12	50	20	0.1	0.176	0.226	38.24	C1
Vinyl Chloride	1	0		1.93	67.27	50	20	0.1	0.292	0.393	34.53	C1
Chloroethane	1	0		2.34	70.52	50	20	0.1	0.173	0.244	41.03	C1
Trichlorofluoromethane	1	0		2.57	76.91	50	20	0.1	0.361	0.556	53.83	C1
Ethyl ether	1	0		2.82	59.25	50	20	0.5	0.198	0.235	18.51	
Furan	1	0		2.86	67.26	50	20	0.5	0.398	0.535	34.52	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.03	63.32	50	20	0.1	0.197	0.249	26.64	C1
Methylene Chloride	1	0		3.45	58.05	50	20	0.1	0.254	0.295	16.09	
Acrolein	1	0		2.94	310.29	250	20		0.044	0.055	24.12	C1
Acrylonitrile	1	0		3.65	58.26	50	20		0.123	0.144	16.52	
Iodomethane	1	0		3.18	44.85	50	20		0.169	0.200	10.30	
Acetone	1	0		3.07	295.28	250	20	0.1	0.096	0.113	18.11	
Carbon Disulfide	1	0		3.25	54.44	50	20	0.1	0.693	0.754	8.89	
t-Butyl Alcohol	1	0		3.52	352.38	250	20		0.032	0.045	40.95	C1
n-Hexane	1	0		3.92	57.18	50	20		0.363	0.415	14.35	
Di-isopropyl-ether	1	0		4.07	51.07	50	20		0.992	1.013	2.14	
1,1-Dichloroethene	1	0		3.04	64.77	50	20	0.1	0.399	0.517	29.54	C1
Methyl Acetate	1	0		3.36	56.53	50	20	0.1	0.270	0.305	13.05	
Methyl-t-butyl ether	1	0		3.69	54.96	50	20	0.1	0.581	0.638	9.92	
1,1-Dichloroethane	1	0		4.04	57.05	50	20	0.2	0.488	0.557	14.10	
trans-1,2-Dichloroethene	1	0		3.70	58.19	50	20	0.1	0.237	0.276	16.38	
Ethyl-t-butyl ether	1	0		4.34	58.49	50	20	0.5	0.725	0.848	16.97	
cis-1,2-Dichloroethene	1	0		4.45	57.90	50	20	0.1	0.494	0.573	15.79	
Bromochloromethane	1	0		4.60	52.28	50	20		0.294	0.308	4.56	
2,2-Dichloropropane	1	0		4.45	51.38	50	20		0.251	0.338	2.76	
Ethyl acetate	1	0		4.47	52.74	50	20		0.324	0.342	5.48	
1,4-Dioxane	1	0		5.53	3643.09	2500	20		0.003	0.004	45.72	C1
1,1-Dichloropropene	1	0		4.86	59.73	50	20		0.326	0.390	19.46	
Chloroform	1	0		4.64	55.38	50	20	0.2	0.471	0.522	10.76	
Dibromofluoromethane	1	0	S	4.73	29.99	75	**		0.281	0.281	0.03	
Cyclohexane	1	0		4.81	56.69	50	20	0.1	0.454	0.515	13.38	
1,2-Dichloroethane-d4	1	0	S	4.94	28.76	75	**		0.167	0.160	4.13	
1,2-Dichloroethane	1	0		4.98	53.85	50	20	0.1	0.419	0.451	7.69	
2-Butanone	1	0		4.45	69.70	50	20	0.1	0.145	0.202	39.41	C1
1,1,1-Trichloroethane	1	0		4.77	59.50	50	20	0.1	0.396	0.471	19.00	
Carbon Tetrachloride	1	0		4.87	62.87	50	20	0.1	0.323	0.406	25.75	C1
Vinyl Acetate	1	0		4.07	52.55	50	20		0.854	0.898	5.11	
Bromodichloromethane	1	0		5.60	54.25	50	20	0.2	0.368	0.399	8.50	
Methylcyclohexane	1	0		5.45	59.92	50	20	0.1	0.367	0.439	19.84	
Dibromomethane	1	0		5.53	55.08	50	20		0.156	0.172	10.17	
1,2-Dichloropropane	1	0		5.46	54.56	50	20	0.1	0.297	0.324	9.12	
Trichloroethene	1	0		5.34	58.12	50	20	0.2	0.253	0.294	16.25	
Benzene	1	0		4.98	59.27	50	20	0.5	0.928	1.100	18.54	
tert-Amyl methyl ether	1	0		5.03	57.15	50	20		0.565	0.646	14.31	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.98	53.75	50	20	0.5	0.696	0.748	7.50	
Methyl methacrylate	1	0		5.48	55.37	50	20	0.5	0.328	0.364	10.74	
Dibromochloromethane	1	0		6.45	53.37	50	20	0.1	0.323	0.344	6.75	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50PPB **Data File:** 6M146290.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/20/2021 11:20:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.79	59.70	50	20		0.006	0.003	19.40	
cis-1,3-Dichloropropene	1	0		5.83	55.11	50	20	0.2	0.448	0.494	10.22	
trans-1,3-Dichloropropene	1	0		6.12	56.51	50	20	0.1	0.391	0.441	13.02	
Ethyl methacrylate	1	0		6.14	52.00	50	20	0.5	0.349	0.363	4.00	
1,1,2-Trichloroethane	1	0		6.22	53.03	50	20	0.1	0.277	0.294	6.05	
1,2-Dibromoethane	1	0		6.53	52.30	50	20	0.1	0.283	0.296	4.60	
1,3-Dichloropropane	1	0		6.32	52.67	50	20		0.477	0.503	5.33	
4-Methyl-2-Pentanone	1	0		5.90	56.92	50	20	0.1	0.381	0.433	13.83	
2-Hexanone	1	0		6.33	59.16	50	20	0.1	0.266	0.314	18.33	
Tetrachloroethene	1	0		6.32	54.18	50	20	0.2	0.249	0.270	8.37	
Toluene-d8	1	0	S	5.99	30.22	75	**		1.207	1.216	0.74	
Toluene	1	0		6.03	55.16	50	20	0.4	0.737	0.813	10.32	
1,1,1,2-Tetrachloroethane	1	0		6.81	53.83	50	20		0.289	0.312	7.67	
Chlorobenzene	1	0		6.78	52.08	50	20	0.5	0.834	0.868	4.15	
1,4-Dichlorobenzene-d4	1	0	I	8.05	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.02	57.70	50	20	0.5	1.127	1.301	15.40	
n-Amyl acetate	1	0		7.13	58.63	50	20	0.5	1.008	1.182	17.25	
Bromoform	1	0		7.23	54.32	50	20	0.1	0.384	0.417	8.63	
Ethylbenzene	1	0		6.82	56.79	50	20	0.1	0.635	0.721	13.58	
1,1,2,2-Tetrachloroethane	1	0		7.45	56.60	50	20	0.1	0.661	0.748	13.21	
Bromofluorobenzene	1	0	S	7.39	31.32	75	**		0.740	0.773	4.41	
Styrene	1	0		7.10	55.22	50	20	0.3	1.559	1.722	10.45	
m&p-Xylenes	1	0		6.88	117.68	100	20	0.1	0.890	1.047	17.68	
o-Xylene	1	0		7.10	56.68	50	20	0.3	0.898	1.018	13.36	
trans-1,4-Dichloro-2-butene	1	0		7.47	61.57	50	20		0.387	0.477	23.13	C1
1,3-Dichlorobenzene	1	0		8.02	51.75	50	20	0.6	1.144	1.184	3.50	
1,4-Dichlorobenzene	1	0		8.07	50.27	50	20	0.5	1.155	1.161	0.53	
1,2-Dichlorobenzene	1	0		8.29	51.05	50	20	0.4	1.088	1.110	2.10	
Isopropylbenzene	1	0		7.29	57.74	50	20	0.1	2.363	2.728	15.48	
Cyclohexanone	1	0		7.37	413.31	250	20		0.029	0.048	65.33	C1
Camphene	1	0		7.47	58.40	50	20		0.845	0.987	16.80	
1,2,3-Trichloropropane	1	0		7.48	57.44	50	20		0.825	0.947	14.89	
2-Chlorotoluene	1	0		7.59	51.43	50	20		1.601	1.646	2.86	
p-Ethyltoluene	1	0		7.58	54.39	50	20		2.472	2.689	8.77	
4-Chlorotoluene	1	0		7.65	53.59	50	20		1.561	1.673	7.17	
n-Propylbenzene	1	0		7.52	57.45	50	20		2.885	3.314	14.89	
Bromobenzene	1	0		7.49	54.23	50	20		1.570	1.703	8.47	
1,3,5-Trimethylbenzene	1	0		7.60	56.45	50	20		1.933	2.182	12.91	
Butyl methacrylate	1	0		7.61	55.31	50	20	0.5	0.907	1.003	10.63	
t-Butylbenzene	1	0		7.81	56.47	50	20		1.918	2.165	12.93	
1,2,4-Trimethylbenzene	1	0		7.82	56.05	50	20		1.988	2.229	12.11	
sec-Butylbenzene	1	0		7.93	57.46	50	20		2.508	2.882	14.92	
4-Isopropyltoluene	1	0		8.00	53.89	50	20		2.152	2.320	7.78	
n-Butylbenzene	1	0		8.24	57.08	50	20		2.453	2.801	14.16	
p-Diethylbenzene	1	0		8.22	54.90	50	20		1.238	1.360	9.80	
1,2,4,5-Tetramethylbenzene	1	0		8.68	54.50	50	20		1.521	1.658	9.00	
1,2-Dibromo-3-Chloropropane	1	0		8.74	60.86	50	20	0.05	0.138	0.168	21.73	C1
Camphor	1	0		9.18	634.31	500	20		0.053	0.081	26.86	C1
Hexachlorobutadiene	1	0		9.32	51.60	50	20		0.411	0.425	3.21	
1,2,4-Trichlorobenzene	1	0		9.23	50.97	50	20	0.2	0.702	0.715	1.94	
1,2,3-Trichlorobenzene	1	0		9.54	50.38	50	20		0.657	0.662	0.77	
Naphthalene	1	0		9.39	51.09	50	20		1.533	1.954	2.17	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M144913.D Method: EPA 8260D

Analysis Date/Time: 09/15/21 21:36

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	155180	5.13	124317	6.76	71473	8.05								
Eval File Area Limit:	77590-310360		62158-248634		35736-142946									
Eval File Rt Limit:	4.63-5.63		6.26-7.26		7.55-8.55									

Data File	Sample						
6M144909.D	CAL @ 0.5 PPB	146738	5.13	122143	6.76	65206	8.05
6M144910.D	CAL @ 1 PPB	142879	5.13	122100	6.76	64470	8.05
6M144911.D	CAL @ 2 PPB	146695	5.13	121578	6.76	65637	8.05
6M144912.D	CAL @ 5 PPB	148614	5.13	120215	6.76	65898	8.05
6M144913.D	CAL @ 20 PPB	155180	5.13	124317	6.76	71473	8.05
6M144914.D	CAL @ 50 PPB	161330	5.13	126806	6.76	72834	8.05
6M144915.D	CAL @ 500 PPB	162352	5.13	135190	6.76	76396	8.05
6M144917.D	CAL @ 250 PPB	164184	5.13	132714	6.76	71260	8.05
6M144919.D	CAL @ 100 PPB	171847	5.13	136855	6.76	74816	8.05
6M144922.D	ICV	170763	5.13	135559	6.76	73961	8.05

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M146290.D Method: EPA 8260D

Analysis Date/Time: 10/20/21 11:20

Lab File ID: CAL @ 50PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	166198	5.13	138249	6.76	74829	8.05								
Eval File Area Limit:	83099-332396		69124-276498		37414-149658									
Eval File Rt Limit:	4.63-5.63		6.26-7.26		7.55-8.55									
Data File Sample														
6M146292.D BLK	180691	5.13	160032	6.76	84870	8.05								
6M146293.D BLK	178610	5.13	157543	6.76	83503	8.05								
6M146294.D DAILY BLANK	173375	5.13	150393	6.76	83265	8.05								
6M146295.D MBS97012	157060	5.13	132079	6.76	73307	8.05								
6M146296.D AD26688-001(MS)	162437	5.13	134344	6.76	72700	8.05								
6M146297.D AD26688-001(MSD)	162064	5.13	134779	6.76	73116	8.05								
6M146298.D AD26688-001	171929	5.13	149189	6.76	79554	8.05								
6M146299.D BLK	170257	5.13	150633	6.76	76817	8.05								
6M146300.D AD26744-002	166102	5.13	143568	6.76	77321	8.05								
6M146301.D AD26744-004	156072	5.13	135047	6.76	74464	8.05								
6M146302.D AD26744-005	149511	5.13	131186	6.76	67651	8.05								
6M146303.D AD26744-001	136425	5.13	120472	6.76	63030	8.05								
6M146304.D AD26744-003	157371	5.13	136455	6.76	71211	8.05								
6M146305.D AD26731-003	145015	5.13	130237	6.76	75160	8.05								
6M146306.D BLK	67858A	5.13	57390A	6.76	30509A	8.05								
6M146307.D AD26728-003	110617	5.13	79858	6.76	31733A	8.05								
6M146308.D AD26728-004	124565	5.13	87321	6.76	31089A	8.05								
6M146309.D AD26728-005	126589	5.13	96703	6.76	37125A	8.05								
6M146310.D AD26728-006	122042	5.13	96170	6.76	38788	8.05								
6M146311.D AD26728-007	127057	5.13	105084	6.76	50356	8.05								
6M146312.D AD26728-008	97310	5.13	51355A	6.76	12582A	8.05								
6M146313.D AD26731-002	123508	5.13	99998	6.76	330149A	8.03								
6M146315.D AD26731-002	140438	5.13	110835	6.76	227333A	8.03								
6M146316.D BLK	176782	5.13	153823	6.76	82431	8.05								
6M146318.D AD26731-001	155258	5.13	130530	6.76	97713	8.05								
6M146319.D BLK	24326A	5.13	24160A	6.76	13472A	8.05								
6M146320.D AD26694-002	152701	5.13	125327	6.76	73850	8.06								
6M146321.D AD26694-002	173425	5.13	152972	6.76	148294	8.05								
6M146322.D STD	182147	5.13	158602	6.76	89696	8.05								
6M146325.D BLK	190528	5.13	162934	6.76	84142	8.05								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26731-001
Client Id: SB-002SS1(16-18)
Data File: 7M117473.D
Analysis Date: 10/28/21 19:38
Date Rec/Extracted: 10/19/21-10/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.038	U	50-32-8	Benzo[a]pyrene	0.038	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.038	U	205-99-2	Benzo[b]fluoranthene	0.038	U
122-66-7	1,2-Diphenylhydrazine	0.038	U	191-24-2	Benzo[g,h,i]perylene	0.038	U
123-91-1	1,4-Dioxane	0.019	U	207-08-9	Benzo[k]fluoranthene	0.038	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.038	U	100-51-6	Benzyl alcohol	0.038	U
95-95-4	2,4,5-Trichlorophenol	0.038	U	111-91-1	bis(2-Chloroethoxy)methan	0.038	U
88-06-2	2,4,6-Trichlorophenol	0.038	U	111-44-4	bis(2-Chloroethyl)ether	0.0096	U
120-83-2	2,4-Dichlorophenol	0.014	U	108-60-1	bis(2-chloroisopropyl)ether	0.038	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.038	U
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.038	U
121-14-2	2,4-Dinitrotoluene	0.038	U	105-60-2	Caprolactam	0.038	U
606-20-2	2,6-Dinitrotoluene	0.038	U	86-74-8	Carbazole	0.038	U
91-58-7	2-Chloronaphthalene	0.038	U	218-01-9	Chrysene	0.038	U
95-57-8	2-Chlorophenol	0.038	U	53-70-3	Dibenzo[a,h]anthracene	0.038	U
91-57-6	2-Methylnaphthalene	0.038	U	**132-64-9**	**Dibenzofuran**	**0.0097**	**0.066**
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.038	U
88-74-4	2-Nitroaniline	0.038	U	131-11-3	Dimethylphthalate	0.038	U
88-75-5	2-Nitrophenol	0.038	U	84-74-2	Di-n-butylphthalate	0.044	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.038	U
91-94-1	3,3'-Dichlorobenzidine	0.038	U	206-44-0	Fluoranthene	0.038	U
99-09-2	3-Nitroaniline	0.038	U	**86-73-7**	**Fluorene**	**0.038**	**0.12**
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.038	U
101-55-3	4-Bromophenyl-phenylether	0.038	U	87-68-3	Hexachlorobutadiene	0.038	U
59-50-7	4-Chloro-3-methylphenol	0.038	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.038	U
7005-72-3	4-Chlorophenyl-phenylether	0.038	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.038	U
100-01-6	4-Nitroaniline	0.038	U	78-59-1	Isophorone	0.038	U
100-02-7	4-Nitrophenol	0.038	U	91-20-3	Naphthalene	0.011	U
83-32-9	Acenaphthene	0.038	U	98-95-3	Nitrobenzene	0.038	U
208-96-8	Acenaphthylene	0.038	U	62-75-9	N-Nitrosodimethylamine	0.047	U
98-86-2	Acetophenone	0.038	U	621-64-7	N-Nitroso-di-n-propylamine	0.014	U
120-12-7	Anthracene	0.038	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.038	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.42	U	85-01-8	Phenanthrene	0.038	U
92-87-5	Benzidine	0.067	U	108-95-2	Phenol	0.038	U
56-55-3	Benzo[a]anthracene	0.038	U	129-00-0	Pyrene	0.038	U

Worksheet #: 615243

Total Target Concentration 0.19

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

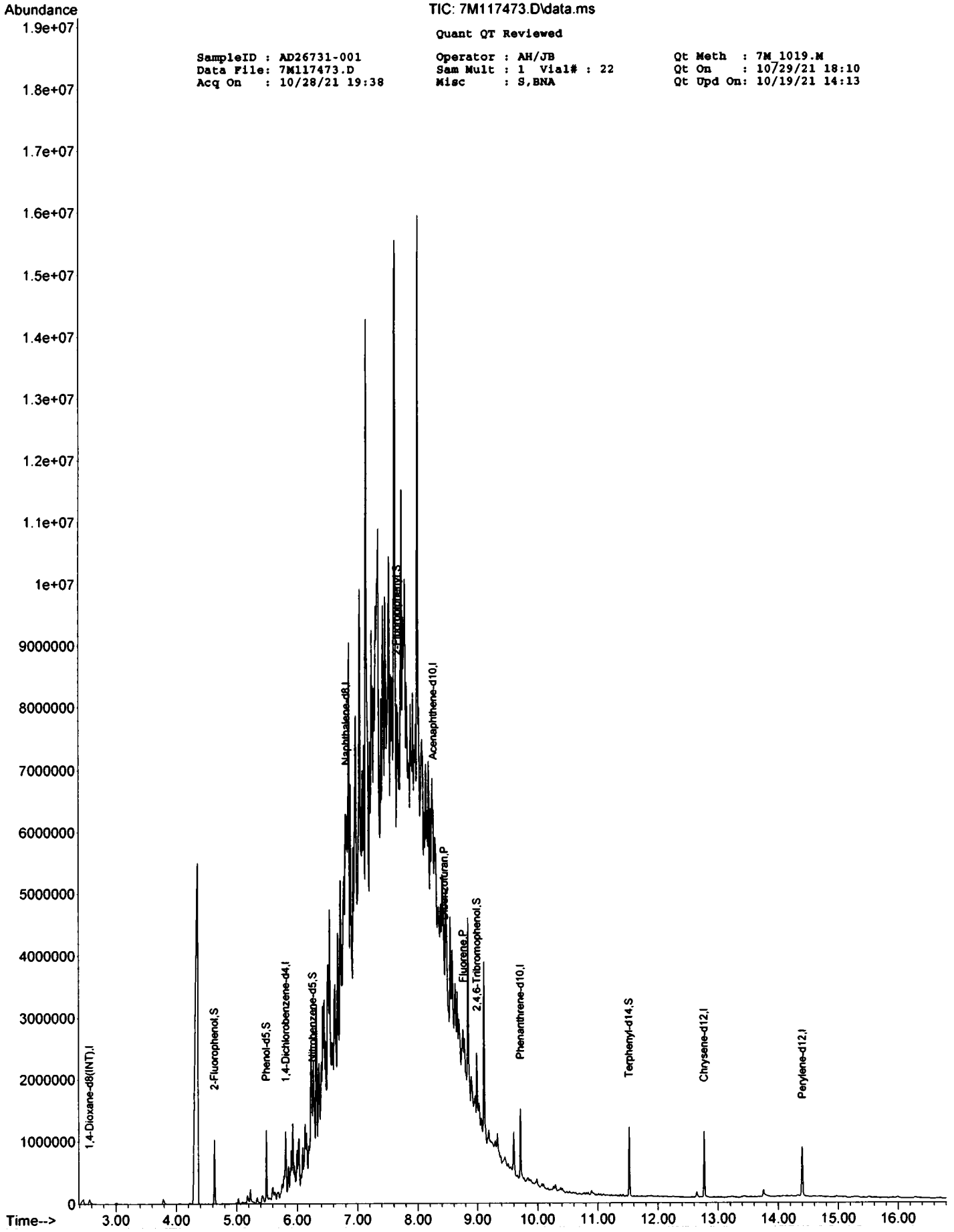
Quantitation Report (QT Reviewed)

SampleID : AD26731-001 Operator : AH/JB Qt Meth : 7M_1019.M
Data File: 7M117473.D Sam Mult : 1 Vial# : 22 Qt On : 10/29/21 18:10
Acq On : 10/28/21 19:38 Misc : S,BNA Qt Upd On: 10/19/21 14:13

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-28-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.564	96	50975	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	124388	40.00	ng	0.00
31) Naphthalene-d8	6.817	136	471054	40.00	ng	-0.01
50) Acenaphthene-d10	8.263	164	247762	40.00	ng	0.00
77) Phenanthrene-d10	9.714	188	438633	40.00	ng	-0.02
91) Chrysene-d12	12.769	240	398201	40.00	ng	-0.01
103) Perylene-d12	14.403	264	379109	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.632	112	283181	85.36	ng	0.02
Spiked Amount 100.000			Recovery = 85.36%			
16) Phenol-d5	5.495	99	340384	86.82	ng	0.00
Spiked Amount 100.000			Recovery = 86.82%			
32) Nitrobenzene-d5	6.259	128	73043	38.89	ng	0.00
Spiked Amount 50.000			Recovery = 77.78%			
55) 2-Fluorobiphenyl	7.664	172	390286	42.13	ng	-0.01
Spiked Amount 50.000			Recovery = 84.26%			
80) 2,4,6-Tribromophenol	8.997	330	105412	84.83	ng	-0.01
Spiked Amount 100.000			Recovery = 84.83%			
94) Terphenyl-d14	11.524	244	336823	46.48	ng	0.00
Spiked Amount 50.000			Recovery = 92.96%			
Target Compounds						Qvalue
68) Dibenzofuran	8.445	168	40700m	3.4551	ng	
72) Fluorene	8.762	166	60699	6.4529	ng	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M117473.D\data.ms
Quant QT Reviewed
SampleID : AD26731-001
Data File: 7M117473.D
Acq On : 10/28/21 19:38
Operator : AH/JB
Sam Mult : 1 Vial# : 22
Misc : S,BNA
Qt Meth : 7M_1019.M
Qt On : 10/29/21 18:10
Qt Upd On: 10/19/21 14:13
1.9e+07
1.8e+07
1.7e+07
1.6e+07
1.5e+07
1.4e+07
1.3e+07
1.2e+07
1.1e+07
1e+07
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4.00
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7.00
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9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Acenaphthene-d10,I
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26731-002(5X)
Client Id: SB002SS2(18-20)
Data File: 7M117496.D
Analysis Date: 10/29/21 16:17
Date Rec/Extracted: 10/19/21-10/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.22	U	50-32-8	Benzo[a]pyrene	0.22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.22	U	205-99-2	Benzo[b]fluoranthene	0.22	U
122-66-7	1,2-Diphenylhydrazine	0.22	U	191-24-2	Benzo[g,h,i]perylene	0.22	U
123-91-1	1,4-Dioxane	0.11	U	207-08-9	Benzo[k]fluoranthene	0.22	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.22	U	100-51-6	Benzyl alcohol	0.22	U
95-95-4	2,4,5-Trichlorophenol	0.22	U	111-91-1	bis(2-Chloroethoxy)methan	0.22	U
88-06-2	2,4,6-Trichlorophenol	0.22	U	111-44-4	bis(2-Chloroethyl)ether	0.054	U
120-83-2	2,4-Dichlorophenol	0.081	U	108-60-1	bis(2-chloroisopropyl)ether	0.22	U
105-67-9	2,4-Dimethylphenol	0.11	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.22	U
51-28-5	2,4-Dinitrophenol	1.1	U	85-68-7	Butylbenzylphthalate	0.22	U
121-14-2	2,4-Dinitrotoluene	0.22	U	105-60-2	Caprolactam	0.22	U
606-20-2	2,6-Dinitrotoluene	0.22	U	86-74-8	Carbazole	0.22	U
91-58-7	2-Chloronaphthalene	0.22	U	218-01-9	Chrysene	0.22	U
95-57-8	2-Chlorophenol	0.22	U	53-70-3	Dibenzo[a,h]anthracene	0.22	U
91-57-6	**2-Methylnaphthalene**	**0.22**	**0.31**	**132-64-9**	**Dibenzofuran**	**0.055**	**0.076**
95-48-7	2-Methylphenol	0.062	U	84-66-2	Diethylphthalate	0.22	U
88-74-4	2-Nitroaniline	0.22	U	131-11-3	Dimethylphthalate	0.22	U
88-75-5	2-Nitrophenol	0.22	U	84-74-2	Di-n-butylphthalate	0.25	U
106-44-5	3&4-Methylphenol	0.063	U	117-84-0	Di-n-octylphthalate	0.22	U
91-94-1	3,3'-Dichlorobenzidine	0.22	U	206-44-0	Fluoranthene	0.22	U
99-09-2	3-Nitroaniline	0.22	U	86-73-7	Fluorene	0.22	U
534-52-1	4,6-Dinitro-2-methylphenol	1.1	U	118-74-1	Hexachlorobenzene	0.22	U
101-55-3	4-Bromophenyl-phenylether	0.22	U	87-68-3	Hexachlorobutadiene	0.22	U
59-50-7	4-Chloro-3-methylphenol	0.22	U	77-47-4	Hexachlorocyclopentadiene	0.70	U
106-47-8	4-Chloroaniline	0.095	U	67-72-1	Hexachloroethane	0.22	U
7005-72-3	4-Chlorophenyl-phenylether	0.22	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.22	U
100-01-6	4-Nitroaniline	0.22	U	78-59-1	Isophorone	0.22	U
100-02-7	4-Nitrophenol	0.22	U	91-20-3	Naphthalene	0.062	U
83-32-9	Acenaphthene	0.22	U	98-95-3	Nitrobenzene	0.22	U
208-96-8	Acenaphthylene	0.22	U	62-75-9	N-Nitrosodimethylamine	0.27	U
98-86-2	Acetophenone	0.22	U	621-64-7	N-Nitroso-di-n-propylamine	0.081	U
120-12-7	Anthracene	0.22	U	86-30-6	n-Nitrosodiphenylamine	0.73	U
1912-24-9	Atrazine	0.22	U	87-86-5	Pentachlorophenol	1.1	U
100-52-7	Benzaldehyde	2.4	U	85-01-8	Phenanthrene	0.22	U
92-87-5	Benzidine	0.38	U	108-95-2	Phenol	0.22	U
56-55-3	Benzo[a]anthracene	0.22	U	129-00-0	Pyrene	0.22	U

Worksheet #: 615243

Total Target Concentration 0.39

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

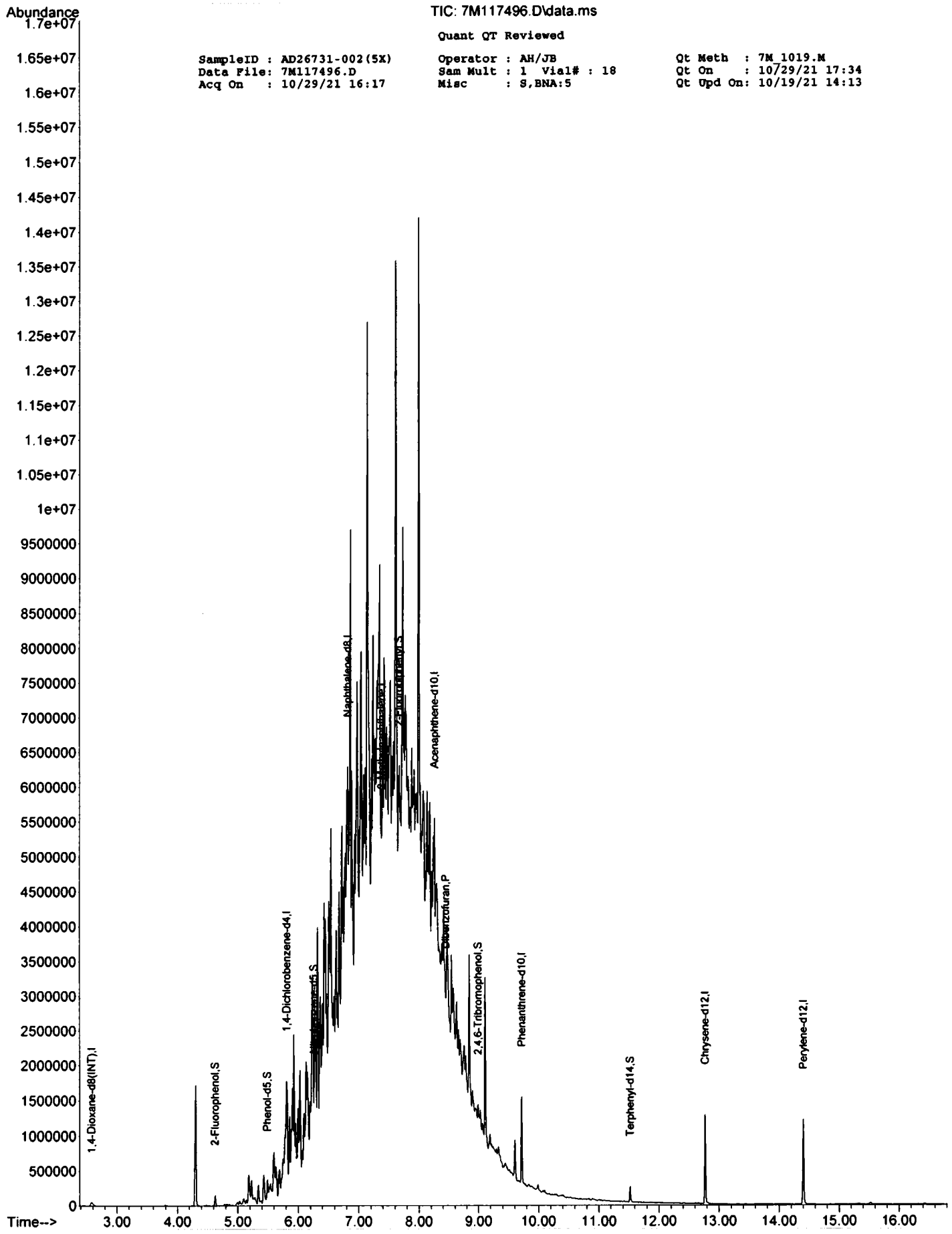
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD26731-002(5X) Operator : AH/JB Qt Meth : 7M_1019.M
Data File: 7M117496.D Sam Mult : 1 Vial# : 18 Qt On : 10/29/21 17:34
Acq On : 10/29/21 16:17 Misc : S,BNA:5 Qt Upd On: 10/19/21 14:13

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-29-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.581	96	59408	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.813	152	133668	40.00	ng	0.00
31) Naphthalene-d8	6.823	136	513281	40.00	ng	0.00
50) Acenaphthene-d10	8.263	164	261234	40.00	ng	0.00
77) Phenanthrene-d10	9.720	188	508172	40.00	ng	-0.01
91) Chrysene-d12	12.769	240	506812	40.00	ng	-0.01
103) Perylene-d12	14.403	264	542566	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.626	112	53119	13.74	ng	0.01
Spiked Amount 100.000			Recovery = 13.74%			
16) Phenol-d5	5.489	99	63931	13.99	ng	0.00
Spiked Amount 100.000			Recovery = 13.99%			
32) Nitrobenzene-d5	6.259	128	17718	8.66	ng	0.00
Spiked Amount 50.000			Recovery = 17.32%			
55) 2-Fluorobiphenyl	7.669	172	84865	8.69	ng	0.00
Spiked Amount 50.000			Recovery = 17.38%			
80) 2,4,6-Tribromophenol	8.997	330	20639	14.34	ng	-0.01
Spiked Amount 100.000			Recovery = 14.34%			
94) Terphenyl-d14	11.524	244	69181	7.50	ng	0.00
Spiked Amount 50.000			Recovery = 15.00%			
Target Compounds						Qvalue
46) 2-Methylnaphthalene	7.381	142	27478m	2.8932	ng	
68) Dibenzofuran	8.445	168	8729m	0.7028	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M117496.D\data.ms
Quant QT Reviewed
SampleID : AD26731-002(5X)
Data File: 7M117496.D
Acq On : 10/29/21 16:17
Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : S,BNA:5
Qt Meth : 7M_1019.M
Qt On : 10/29/21 17:34
Qt Upd On: 10/19/21 14:13
1.7e+07
1.65e+07
1.6e+07
1.55e+07
1.5e+07
1.45e+07
1.4e+07
1.35e+07
1.3e+07
1.25e+07
1.2e+07
1.15e+07
1.1e+07
1.05e+07
1e+07
9500000
9000000
8500000
8000000
7500000
7000000
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26731-003
Client Id: SB-001SS(4-6)
Data File: 7M117474.D
Analysis Date: 10/28/21 20:02
Date Rec/Extracted: 10/19/21-10/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	50-32-8	Benzo[a]pyrene	0.036	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	205-99-2	Benzo[b]fluoranthene	0.036	U
122-66-7	1,2-Diphenylhydrazine	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
123-91-1	1,4-Dioxane	0.018	U	207-08-9	Benzo[k]fluoranthene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	100-51-6	Benzyl alcohol	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.017	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.036	U
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	218-01-9	Chrysene	0.036	U
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0091	U
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.041	U
106-44-5	3&4-Methylphenol	0.010	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	206-44-0	Fluoranthene	0.036	U
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.010	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	62-75-9	N-Nitrosodimethylamine	0.044	U
98-86-2	Acetophenone	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.12	U
1912-24-9	Atrazine	0.036	U	87-86-5	Pentachlorophenol	0.18	U
100-52-7	Benzaldehyde	0.39	U	85-01-8	Phenanthrene	0.036	U
92-87-5	Benzidine	0.063	U	108-95-2	Phenol	0.036	U
56-55-3	Benzo[a]anthracene	0.036	U	129-00-0	Pyrene	0.036	U

Worksheet #: 615243

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticlde %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

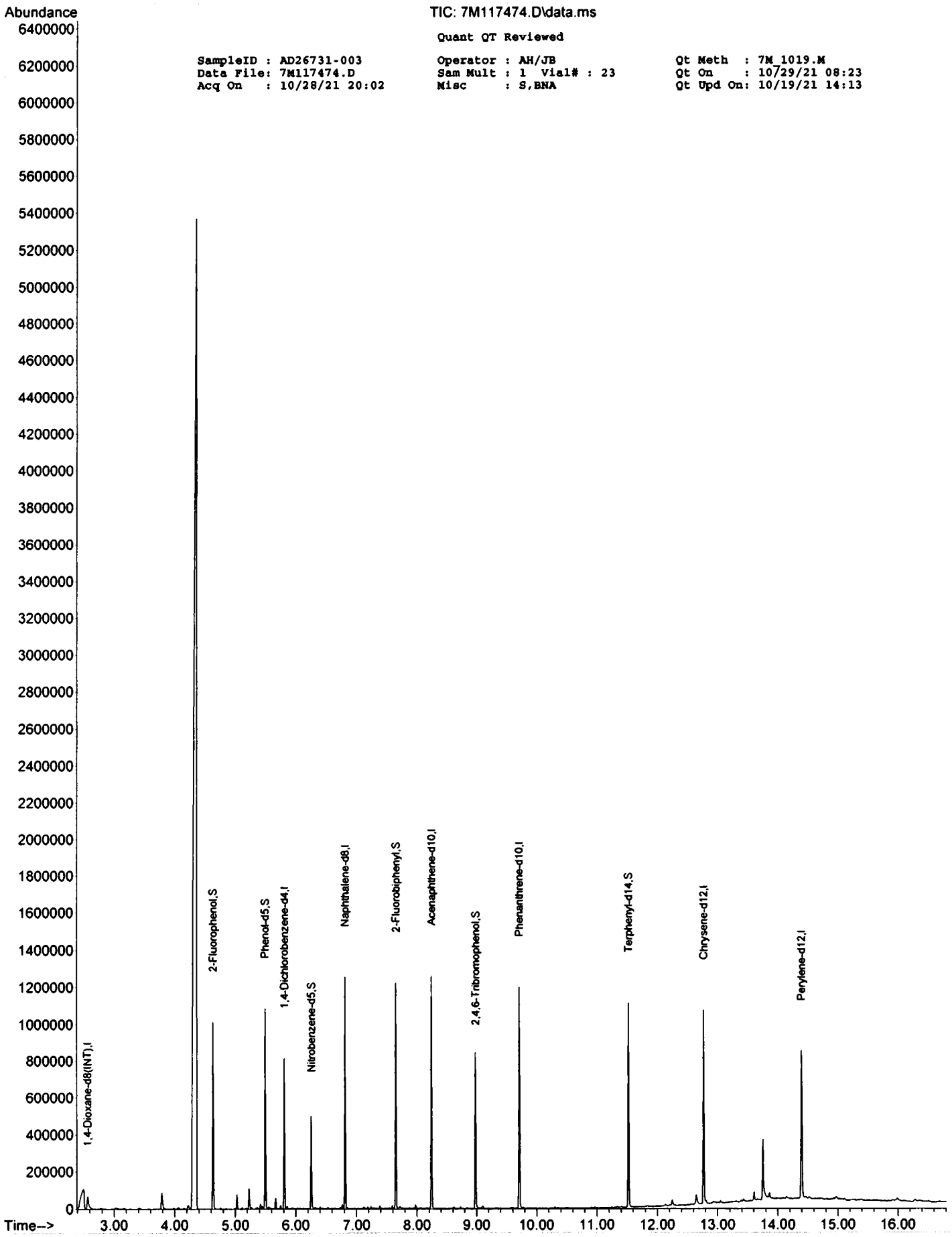
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD26731-003 Operator : AH/JB Qt Meth : 7M_1019.M
Data File: 7M117474.D Sam Mult : 1 Vial# : 23 Qt On : 10/29/21 08:23
Acq On : 10/28/21 20:02 Misc : S,BNA Qt Upd On: 10/19/21 14:13

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-28-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.564	96	46637	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	123240	40.00	ng	0.00
31) Naphthalene-d8	6.812	136	475936	40.00	ng	-0.02
50) Acenaphthene-d10	8.239	164	248378	40.00	ng	-0.03
77) Phenanthrene-d10	9.708	188	471215	40.00	ng	-0.02
91) Chrysene-d12	12.769	240	375075	40.00	ng	-0.01
103) Perylene-d12	14.397	264	367083	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.632	112	276772	91.18	ng	0.02
Spiked Amount 100.000			Recovery = 91.18%			
16) Phenol-d5	5.495	99	332021	92.56	ng	0.00
Spiked Amount 100.000			Recovery = 92.56%			
32) Nitrobenzene-d5	6.259	128	75728	39.90	ng	0.00
Spiked Amount 50.000			Recovery = 79.80%			
55) 2-Fluorobiphenyl	7.652	172	379367	40.85	ng	-0.02
Spiked Amount 50.000			Recovery = 81.70%			
80) 2,4,6-Tribromophenol	8.986	330	102842	77.04	ng	-0.02
Spiked Amount 100.000			Recovery = 77.04%			
94) Terphenyl-d14	11.524	244	325630	47.70	ng	0.00
Spiked Amount 50.000			Recovery = 95.40%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M117474.D\data.ms
Quant QT Reviewed
SampleID : AD26731-003
Data File: 7M117474.D
Acq On : 10/28/21 20:02
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA
Qt Meth : 7M_1019.M
Qt On : 10/29/21 08:23
Qt Upd On: 10/19/21 14:13
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95410
Client Id:
Data File: 7M117485.D
Analysis Date: 10/29/21 11:54
Date Rec/Extracted: NA-10/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 615243

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

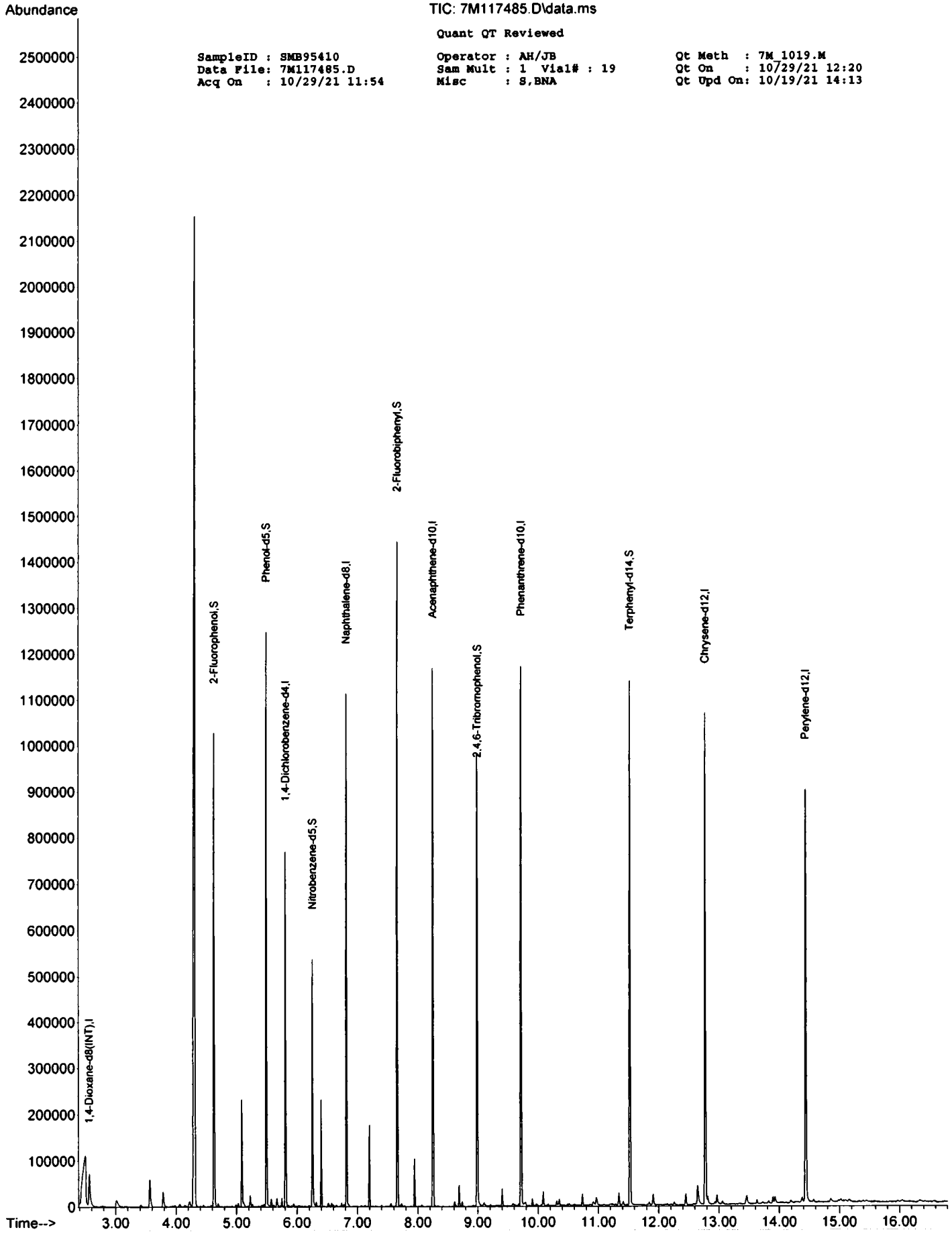
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : SMB95410 Operator : AH/JB Qt Meth : 7M_1019.M
Data File: 7M117485.D Sam Mult : 1 Vial# : 19 Qt On : 10/29/21 12:20
Acq On : 10/29/21 11:54 Misc : S,BNA Qt Upd On: 10/19/21 14:13

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-29-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.563	96	47885	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	117644	40.00	ng	0.00
31) Naphthalene-d8	6.817	136	469215	40.00	ng	-0.01
50) Acenaphthene-d10	8.251	164	250128	40.00	ng	-0.02
77) Phenanthrene-d10	9.720	188	493405	40.00	ng	-0.01
91) Chrysene-d12	12.775	240	404284	40.00	ng	0.00
103) Perylene-d12	14.438	264	424845	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.632	112	294334	94.44	ng	0.02
Spiked Amount 100.000			Recovery = 94.44%			
16) Phenol-d5	5.495	99	358197	97.25	ng	0.00
Spiked Amount 100.000			Recovery = 97.25%			
32) Nitrobenzene-d5	6.259	128	79488	42.48	ng	0.00
Spiked Amount 50.000			Recovery = 84.96%			
55) 2-Fluorobiphenyl	7.663	172	403448	43.14	ng	-0.01
Spiked Amount 50.000			Recovery = 86.28%			
80) 2,4,6-Tribromophenol	8.997	330	120567	86.26	ng	-0.01
Spiked Amount 100.000			Recovery = 86.26%			
94) Terphenyl-d14	11.524	244	370113	50.30	ng	0.00
Spiked Amount 50.000			Recovery = 100.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M117485.D\data.ms
Quant QT Reviewed
SampleID : SMB95410
Data File: 7M117485.D
Acq On : 10/29/21 11:54
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : S,BNA
Qt Meth : 7M_1019.M
Qt On : 10/29/21 12:20
Qt Upd On: 10/19/21 14:13
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M117485.D	SMB95410	S	10/29/21 11:54	1		94	97	85	86	86	101
7M117473.D	AD26731-001	S	10/28/21 19:38	1		85	87	78	84	85	93
7M117496.D	AD26731-002(5X)	S	10/29/21 16:17	5		69	70	87	87	72	75
7M117474.D	AD26731-003	S	10/28/21 20:02	1		91	93	80	82	77	95
10M88006.D	SMB95410(MS)	S	10/28/21 15:05	1		73	76	78	82	91	91
9M109175.D	AD26856-001(3X)	S	10/28/21 20:29	3		75	76	93	90	63	91
9M109176.D	AD26856-001(3X)(MS)	S	10/28/21 20:52	3		75	76	96	89	68	88
9M109177.D	AD26856-001(3X)(MSD)	S	10/28/21 21:15	3		75	76	94	87	67	89

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95410

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M88006.D	SMB95410(MS)	10/28/2021 3:05:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.8904	0	50	34	25	150
Pyridine	1	25.9522	0	50	52	1	150
N-Nitrosodimethylamine	1	31.9392	0	50	64	50	130
Benzaldehyde	1	30.5878	0	50	61	20	220
Aniline	1	17.3586	0	50	35	20	150
Pentachloroethane	1	34.7684	0	50	70	50	130
bis(2-Chloroethyl)ether	1	32.7548	0	50	66	50	130
Phenol	1	66.5491	0	100	67	20	150
2-Chlorophenol	1	69.8064	0	100	70	50	130
N-Decane	1	27.9795	0	50	56	20	130
1,3-Dichlorobenzene	1	31.2123	0	50	62	60	130
1,4-Dichlorobenzene	1	33.0677	0	50	66	60	130
1,2-Dichlorobenzene	1	33.1963	0	50	66	50	130
Benzyl alcohol	1	38.3235	0	50	77	20	130
bis(2-chloroisopropyl)ether	1	31.0409	0	50	62	40	130
2-Methylphenol	1	73.2405	0	100	73	50	130
Acetophenone	1	40.2922	0	50	81	50	130
Hexachloroethane	1	33.6063	0	50	67	50	130
N-Nitroso-di-n-propylamine	1	36.0306	0	50	72	40	130
3&4-Methylphenol	1	79.4164	0	100	79	70	130
Nitrobenzene	1	38.1632	0	50	76	70	130
Isophorone	1	34.7815	0	50	70	60	130
2-Nitrophenol	1	76.9769	0	100	77	70	130
2,4-Dimethylphenol	1	75.441	0	100	75	40	130
Benzoic Acid	1	41.7929	0	100	42	20	130
bis(2-Chloroethoxy)methane	1	37.0703	0	50	74	60	130
2,4-Dichlorophenol	1	78.5821	0	100	79	70	130
1,2,4-Trichlorobenzene	1	37.1591	0	50	74	50	130
Naphthalene	1	34.707	0	50	69	50	130
4-Chloroaniline	1	21.6414	0	50	43	10	150
Hexachlorobutadiene	1	34.6275	0	50	69	60	130
Caprolactam	1	48.181	0	50	96	50	130
4-Chloro-3-methylphenol	1	82.4227	0	100	82	50	130
2-Methylnaphthalene	1	38.3986	0	50	77	70	130
1-Methylnaphthalene	1	43.3384	0	50	87	70	130
1,1'-Biphenyl	1	42.0709	0	50	84	60	130
1,2,4,5-Tetrachlorobenzene	1	40.534	0	50	81	70	130
Hexachlorocyclopentadiene	1	31.0353	0	50	62	20	160
2,4,6-Trichlorophenol	1	81.1544	0	100	81	70	130
2,4,5-Trichlorophenol	1	82.5072	0	100	83	70	130
2-Chloronaphthalene	1	38.6818	0	50	77	70	130
1,4-Dimethylnaphthalene	1	42.198	0	50	84	70	130
Diphenyl Ether	1	42.7498	0	50	85	70	130
2-Nitroaniline	1	43.6027	0	50	87	50	130
Coumarin	1	44.7521	0	50	90	70	130
Acenaphthylene	1	37.4538	0	50	75	70	130
Dimethylphthalate	1	43.2907	0	50	87	70	130
2,6-Dinitrotoluene	1	41.4473	0	50	83	70	130
Acenaphthene	1	39.9801	0	50	80	50	130
3-Nitroaniline	1	30.8002	0	50	62	10	130
2,4-Dinitrophenol	1	60.513	0	100	61	20	150
Dibenzofuran	1	40.6394	0	50	81	70	130
2,4-Dinitrotoluene	1	42.1981	0	50	84	40	130
4-Nitrophenol	1	83.6844	0	100	84	20	150
2,3,4,6-Tetrachlorophenol	1	76.0973	0	100	76	70	130
Fluorene	1	39.3746	0	50	79	50	130
4-Chlorophenyl-phenylether	1	40.5361	0	50	81	70	130
Diethylphthalate	1	40.5163	0	50	81	70	130
4-Nitroaniline	1	42.1996	0	50	84	50	130
Atrazine	1	48.6732	0	50	97	50	130
4,6-Dinitro-2-methylphenol	1	76.585	0	100	77	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95410

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	33.6626	0	50	67	50	130
1,2-Diphenylhydrazine	1	38.8439	0	50	78	70	130
4-Bromophenyl-phenylether	1	41.7834	0	50	84	70	130
Hexachlorobenzene	1	39.1125	0	50	78	70	130
N-Octadecane	1	38.4406	0	50	77	70	130
Pentachlorophenol	1	90.6525	0	100	91	40	130
Phenanthrene	1	41.0255	0	50	82	70	130
Anthracene	1	39.6095	0	50	79	70	130
Carbazole	1	44.8707	0	50	90	70	130
Di-n-butylphthalate	1	44.6746	0	50	89	70	130
Fluoranthene	1	42.7071	0	50	85	70	130
Pyrene	1	40.5535	0	50	81	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	43.5199	0	50	87	50	130
3,3'-Dichlorobenzidine	1	27.3866	0	50	55	10	130
Benzo[a]anthracene	1	37.5779	0	50	75	70	130
Chrysene	1	42.4178	0	50	85	60	130
bis(2-Ethylhexyl)phthalate	1	44.3545	0	50	89	70	130
Di-n-octylphthalate	1	45.9948	0	50	92	70	130
Benzo[b]fluoranthene	1	43.5289	0	50	87	70	130
Benzo[k]fluoranthene	1	42.8081	0	50	86	70	130
Benzo[a]pyrene	1	38.6478	0	50	77	70	130
Indeno[1,2,3-cd]pyrene	1	41.8008	0	50	84	70	130
Dibenzo[a,h]anthracene	1	40.8887	0	50	82	60	130
Benzo[g,h,i]perylene	1	39.6834	0	50	79	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95410

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M109176.D	AD26856-001(3X)(MS)	10/28/2021 8:52:00 PM
Non Spike(If applicable):	9M109175.D	AD26856-001(3X)	10/28/2021 8:29:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.034	0	50	34	25	150
Pyridine	1	28.689	0	50	57	1	150
N-Nitrosodimethylamine	1	29.2377	0	50	58	50	130
Benzaldehyde	1	33.1059	0	50	66	20	220
Aniline	1	14.8986	0	50	30	20	150
Pentachloroethane	1	31.4316	0	50	63	50	130
bis(2-Chloroethyl)ether	1	33.366	0	50	67	50	130
N-Decane	1	45.8667	0	50	92	20	130
1,3-Dichlorobenzene	1	30.579	0	50	61	60	130
1,4-Dichlorobenzene	1	32.9415	0	50	66	60	130
1,2-Dichlorobenzene	1	33.0156	0	50	66	50	130
Benzyl alcohol	1	33.5355	0	50	67	20	130
bis(2-chloroisopropyl)ether	1	33.2271	0	50	66	40	130
Acetophenone	1	49.1583	0	50	98	50	130
Hexachloroethane	1	62.1885	0	50	124	50	130
N-Nitroso-di-n-propylamine	1	45.6858	0	50	91	40	130
Nitrobenzene	1	45.1557	0	50	90	70	130
Isophorone	1	45.081	0	50	90	60	130
Benzoic Acid	1	63.8787	0	100	64	20	130
bis(2-Chloroethoxy)methane	1	41.7975	0	50	84	60	130
1,2,4-Trichlorobenzene	1	34.2978	0	50	69	50	130
Naphthalene	1	82.0731	45.8619	50	72	50	130
4-Chloroaniline	1	29.0142	0	50	58	10	150
Hexachlorobutadiene	1	28.1193	0	50	56*	60	130
Caprolactam	1	377.6085	0	50	755*	50	130
2-Methylnaphthalene	1	322.0602	299.3229	50	45*	70	130
1-Methylnaphthalene	1	351.9306	0	50	704*	70	130
1,1'-Biphenyl	1	54.8973	0	50	110	60	130
1,2,4,5-Tetrachlorobenzene	1	33.0663	0	50	66*	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2-Chloronaphthalene	1	37.4556	0	50	75	70	130
1,4-Dimethylnaphthalene	1	267.8973	0	50	536*	70	130
Diphenyl Ether	1	37.2567	0	50	75	70	130
2-Nitroaniline	1	47.1921	0	50	94	50	130
Coumarin	1	45.6525	0	50	91	70	130
Acenaphthylene	1	46.7379	0	50	93	70	130
Dimethylphthalate	1	45.5403	0	50	91	70	130
2,6-Dinitrotoluene	1	40.4625	0	50	81	70	130
Acenaphthene	1	64.1982	29.9481	50	69	50	130
3-Nitroaniline	1	36.1563	0	50	72	70	130
Dibenzofuran	1	59.1459	0	50	118	70	130
2,4-Dinitrotoluene	1	53.9694	0	50	108	40	130
Fluorene	1	71.1036	37.0578	50	68	50	130
4-Chlorophenyl-phenylether	1	33.9255	0	50	68*	70	130
Diethylphthalate	1	38.4309	0	50	77	70	130
4-Nitroaniline	1	39.2553	0	50	79	50	130
Atrazine	1	39.087	0	50	78	50	130
n-Nitrosodiphenylamine	1	68.9109	0	50	138*	50	130
1,2-Diphenylhydrazine	1	43.4088	0	50	87	70	130
4-Bromophenyl-phenylether	1	32.6688	0	50	65*	70	130
Hexachlorobenzene	1	27.4527	0	50	55*	70	130
N-Octadecane	1	190.8033	0	50	382*	70	130
Phenanthrene	1	138.0375	106.7001	50	63*	70	130
Anthracene	1	53.403	15.9	50	75	70	130
Carbazole	1	45.4992	0	50	91	70	130
Di-n-butylphthalate	1	45.5091	0	50	91	70	130
Fluoranthene	1	79.89	40.4655	50	79	70	130
Pyrene	1	106.731	63.8088	50	86	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	57.7374	0	50	115	50	130
3,3'-Dichlorobenzidine	1	28.8654	0	50	58	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95410

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	59.1675	18.4032	50	82	70	130
Chrysene	1	63.9963	23.9103	50	80	60	130
bis(2-Ethylhexyl)phthalate	1	57.6807	0	50	115	70	130
Di-n-octylphthalate	1	65.6364	0	50	131*	70	130
Benzo[b]fluoranthene	1	72.0921	27.2832	50	90	70	130
Benzo[k]fluoranthene	1	45.9129	9.3348	50	73	70	130
Benzo[a]pyrene	1	54.7686	17.904	50	74	70	130
Indeno[1,2,3-cd]pyrene	1	40.6872	10.1496	50	61*	70	130
Dibenzo[a,h]anthracene	1	35.2983	0	50	71	60	130
Benzo[g,h,i]perylene	1	38.1201	11.4864	50	53*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95410

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M109177.D	AD26856-001(3X)(MSD)	10/28/2021 9:15:00 PM
Non Spike(If applicable):	9M109175.D	AD26856-001(3X)	10/28/2021 8:29:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.7799	0	50	34	25	150
Pyridine	1	28.9797	0	50	58	1	150
N-Nitrosodimethylamine	1	29.0061	0	50	58	50	130
Benzaldehyde	1	33.9267	0	50	68	20	220
Aniline	1	20.1849	0	50	40	20	150
Pentachloroethane	1	31.7268	0	50	63	50	130
bis(2-Chloroethyl)ether	1	32.7531	0	50	66	50	130
N-Decane	1	49.6569	0	50	99	20	130
1,3-Dichlorobenzene	1	30.3003	0	50	61	60	130
1,4-Dichlorobenzene	1	32.1393	0	50	64	60	130
1,2-Dichlorobenzene	1	30.7125	0	50	61	50	130
Benzyl alcohol	1	33.6108	0	50	67	20	130
bis(2-chloroisopropyl)ether	1	31.308	0	50	63	40	130
Acetophenone	1	49.1142	0	50	98	50	130
Hexachloroethane	1	61.692	0	50	123	50	130
N-Nitroso-di-n-propylamine	1	42.4809	0	50	85	40	130
Nitrobenzene	1	44.2788	0	50	89	70	130
Isophorone	1	42.1641	0	50	84	60	130
Benzoic Acid	1	60.4194	0	100	60	20	130
bis(2-Chloroethoxy)methane	1	41.0223	0	50	82	60	130
1,2,4-Trichlorobenzene	1	32.5347	0	50	65	50	130
Naphthalene	1	81.6624	45.8619	50	72	50	130
4-Chloroaniline	1	31.6314	0	50	63	10	150
Hexachlorobutadiene	1	27.3738	0	50	55*	60	130
Caprolactam	1	338.0475	0	50	676*	50	130
2-Methylnaphthalene	1	325.7745	299.3229	50	53*	70	130
1-Methylnaphthalene	1	349.6626	0	50	699*	70	130
1,1'-Biphenyl	1	53.9904	0	50	108	60	130
1,2,4,5-Tetrachlorobenzene	1	34.8249	0	50	70	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2-Chloronaphthalene	1	37.4886	0	50	75	70	130
1,4-Dimethylnaphthalene	1	269.211	0	50	538*	70	130
Diphenyl Ether	1	39.2445	0	50	78	70	130
2-Nitroaniline	1	47.3673	0	50	95	50	130
Coumarin	1	46.6905	0	50	93	70	130
Acenaphthylene	1	46.2579	0	50	93	70	130
Dimethylphthalate	1	43.0821	0	50	86	70	130
2,6-Dinitrotoluene	1	39.5145	0	50	79	70	130
Acenaphthene	1	62.7111	29.9481	50	66	50	130
3-Nitroaniline	1	31.4286	0	50	63*	70	130
Dibenzofuran	1	58.3566	0	50	117	70	130
2,4-Dinitrotoluene	1	60.6003	0	50	121	40	130
Fluorene	1	71.8122	37.0578	50	70	50	130
4-Chlorophenyl-phenylether	1	36.1623	0	50	72	70	130
Diethylphthalate	1	35.4381	0	50	71	70	130
4-Nitroaniline	1	40.2069	0	50	80	50	130
Atrazine	1	40.8831	0	50	82	50	130
n-Nitrosodiphenylamine	1	71.5341	0	50	143*	50	130
1,2-Diphenylhydrazine	1	41.2251	0	50	82	70	130
4-Bromophenyl-phenylether	1	30.7692	0	50	62*	70	130
Hexachlorobenzene	1	27.5676	0	50	55*	70	130
N-Octadecane	1	209.0307	0	50	418*	70	130
Phenanthrene	1	135.3972	106.7001	50	57*	70	130
Anthracene	1	52.8012	15.9	50	74	70	130
Carbazole	1	48.3852	0	50	97	70	130
Di-n-butylphthalate	1	44.628	0	50	89	70	130
Fluoranthene	1	68.1609	40.4655	50	55*	70	130
Pyrene	1	94.914	63.8088	50	62	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	56.9676	0	50	114	50	130
3,3'-Dichlorobenzidine	1	31.8933	0	50	64	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95410

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	53.8845	18.4032	50	71	70	130
Chrysene	1	59.0133	23.9103	50	70	60	130
bis(2-Ethylhexyl)phthalate	1	57.0405	0	50	114	70	130
Di-n-octylphthalate	1	64.68	0	50	129	70	130
Benzo[b]fluoranthene	1	66.7704	27.2832	50	79	70	130
Benzo[k]fluoranthene	1	42.5298	9.3348	50	66 *	70	130
Benzo[a]pyrene	1	51.5349	17.904	50	67 *	70	130
Indeno[1,2,3-cd]pyrene	1	38.4252	10.1496	50	57 *	70	130
Dibenzo[a,h]anthracene	1	33.8847	0	50	68	60	130
Benzo[g,h,i]perylene	1	37.2336	11.4864	50	51 *	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95410

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M109177.D	AD26856-001(3X)(MSD)	10/28/2021 9:15:00 PM
Duplicate(If applicable):	9M109176.D	AD26856-001(3X)(MS)	10/28/2021 8:52:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	16.7799	17.034	1.5	30
Pyridine	1	28.9797	28.689	1	30
N-Nitrosodimethylamine	1	29.0061	29.2377	0.8	30
Benzaldehyde	1	33.9267	33.1059	2.4	30
Aniline	1	20.1849	14.8986	30	30
Pentachloroethane	1	31.7268	31.4316	0.93	30
bis(2-Chloroethyl)ether	1	32.7531	33.366	1.9	30
N-Decane	1	49.6569	45.8667	7.9	30
1,3-Dichlorobenzene	1	30.3003	30.579	0.92	30
1,4-Dichlorobenzene	1	32.1393	32.9415	2.5	40
1,2-Dichlorobenzene	1	30.7125	33.0156	7.2	30
Benzyl alcohol	1	33.6108	33.5355	0.22	30
bis(2-chloroisopropyl)ether	1	31.308	33.2271	5.9	30
Acetophenone	1	49.1142	49.1583	0.09	30
Hexachloroethane	1	61.692	62.1885	0.8	30
N-Nitroso-di-n-propylamine	1	42.4809	45.6858	7.3	40
Nitrobenzene	1	44.2788	45.1557	2	30
Isophorone	1	42.1641	45.081	6.7	30
Benzoic Acid	1	60.4194	63.8787	5.6	30
bis(2-Chloroethoxy)methane	1	41.0223	41.7975	1.9	30
1,2,4-Trichlorobenzene	1	32.5347	34.2978	5.3	40
Naphthalene	1	81.6624	82.0731	0.5	40
4-Chloroaniline	1	31.6314	29.0142	8.6	30
Hexachlorobutadiene	1	27.3738	28.1193	2.7	30
Caprolactam	1	338.0475	377.6085	11	30
2-Methylnaphthalene	1	325.7745	322.0602	1.1	30
1-Methylnaphthalene	1	349.6626	351.9306	0.65	30
1,1'-Biphenyl	1	53.9904	54.8973	1.7	30
1,2,4,5-Tetrachlorobenzene	1	34.8249	33.0663	5.2	30
Hexachlorocyclopentadiene	1	0	0	NA	30
2-Chloronaphthalene	1	37.4886	37.4556	0.09	30
1,4-Dimethylnaphthalene	1	269.211	267.8973	0.49	30
Diphenyl Ether	1	39.2445	37.2567	5.2	30
2-Nitroaniline	1	47.3673	47.1921	0.37	30
Coumarin	1	46.6905	45.6525	2.2	30
Acenaphthylene	1	46.2579	46.7379	1	30
Dimethylphthalate	1	43.0821	45.5403	5.5	30
2,6-Dinitrotoluene	1	39.5145	40.4625	2.4	30
Acenaphthene	1	62.7111	64.1982	2.3	40
3-Nitroaniline	1	31.4286	36.1563	14	30
Dibenzofuran	1	58.3566	59.1459	1.3	30
2,4-Dinitrotoluene	1	60.6003	53.9694	12	40
Fluorene	1	71.8122	71.1036	0.99	40
4-Chlorophenyl-phenylether	1	36.1623	33.9255	6.4	30
Diethylphthalate	1	35.4381	38.4309	8.1	30
4-Nitroaniline	1	40.2069	39.2553	2.4	30
Atrazine	1	40.8831	39.087	4.5	30
n-Nitrosodiphenylamine	1	71.5341	68.9109	3.7	30
1,2-Diphenylhydrazine	1	41.2251	43.4088	5.2	30
4-Bromophenyl-phenylether	1	30.7692	32.6688	6	30
Hexachlorobenzene	1	27.5676	27.4527	0.42	30
N-Octadecane	1	209.0307	190.8033	9.1	30
Phenanthrene	1	135.3972	138.0375	1.9	30
Anthracene	1	52.8012	53.403	1.1	30
Carbazole	1	48.3852	45.4992	6.1	30
Di-n-butylphthalate	1	44.628	45.5091	2	30
Fluoranthene	1	68.1609	79.89	16	30
Pyrene	1	94.914	106.731	12	40
Benzidine	1	0	0	NA	30
Butylbenzylphthalate	1	56.9676	57.7374	1.3	40
3,3'-Dichlorobenzidine	1	31.8933	28.8654	10	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB95410

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	53.8845	59.1675	9.3	30
Chrysene	1	59.0133	63.9963	8.1	30
bis(2-Ethylhexyl)phthalate	1	57.0405	57.6807	1.1	30
Di-n-octylphthalate	1	64.68	65.6364	1.5	30
Benzo[b]fluoranthene	1	66.7704	72.0921	7.7	30
Benzo[k]fluoranthene	1	42.5298	45.9129	7.7	30
Benzo[a]pyrene	1	51.5349	54.7686	6.1	30
Indeno[1,2,3-cd]pyrene	1	38.4252	40.6872	5.7	30
Dibenzo[a,h]anthracene	1	33.8847	35.2983	4.1	30
Benzo[g,h,i]perylene	1	37.2336	38.1201	2.4	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95410
Blank Data File: 7M117485.D
Matrix: Soil

Blank Analysis Date: 10/29/21 11:54
Blank Extraction Date: 10/28/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD26731-001	7M117473.D	10/28/21 19:38
AD26731-002(5X)	7M117496.D	10/29/21 16:17
AD26731-003	7M117474.D	10/28/21 20:02
AD26856-001(3X)(	9M109177.D	10/28/21 21:15
AD26856-001(3X)(	9M109176.D	10/28/21 20:52
AD26856-001(3X)	9M109175.D	10/28/21 20:29
SMB95410(MS)	10M88006.D	10/28/21 15:05

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M87768.D
Analysis Date: 10/13/21 08:45
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.041 to 10.046 min

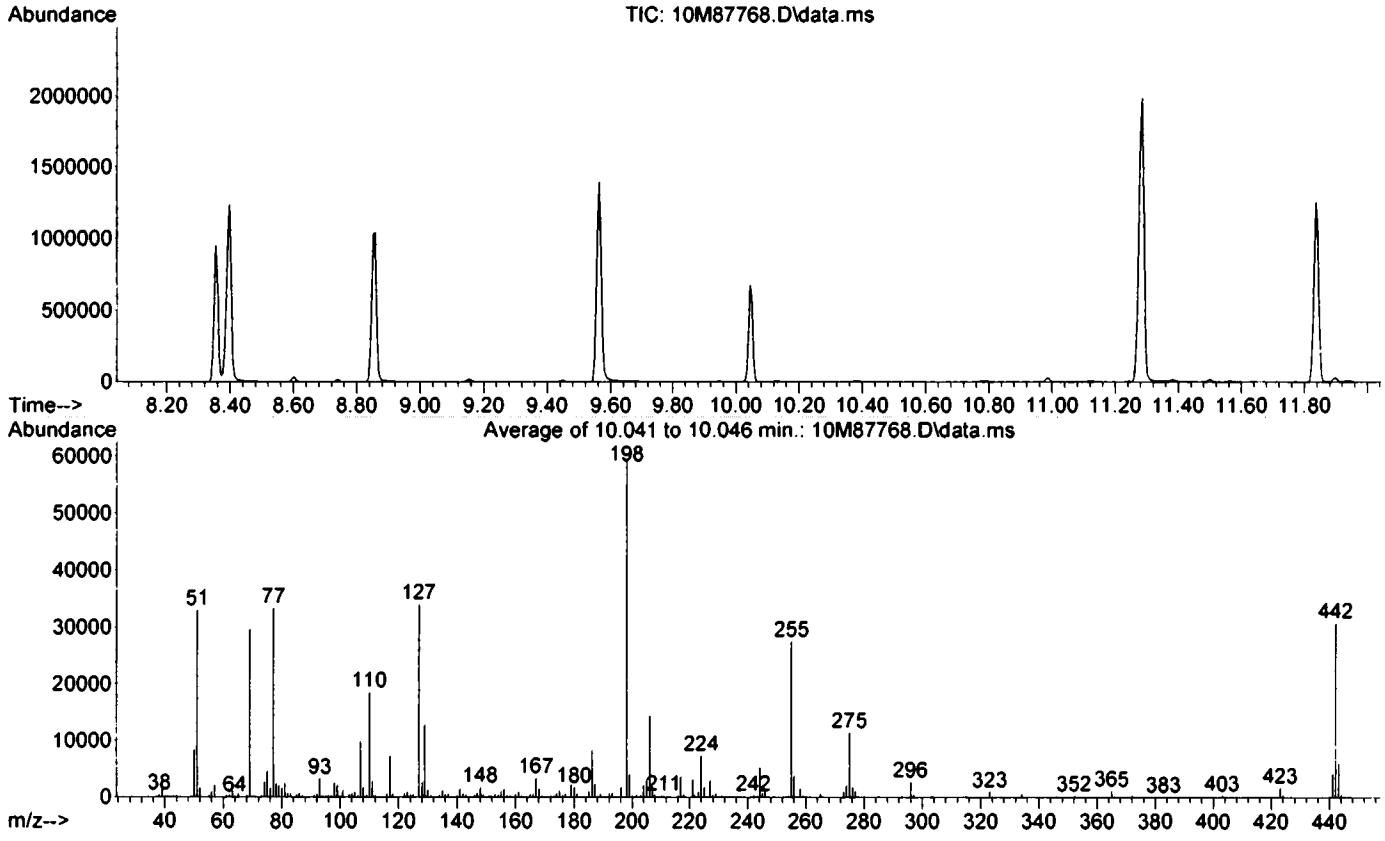
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	55.5	33064	PASS
68	69	0.00	2	1.3	398	PASS
69	198	0.00	100	49.9	29720	PASS
70	69	0.00	2	0.5	144	PASS
127	198	40	60	57.1	34036	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	59572	PASS
199	198	5	9	6.9	4089	PASS
275	198	10	30	19.2	11421	PASS
365	198	1	100	2.0	1162	PASS
441	443	0.01	100	69.3	4188	PASS
442	198	40	100	51.7	30816	PASS
443	442	17	23	19.6	6043	PASS

Data File	Sample Number	Analysis Date:
10M87769.D	CAL BNA@2PPM	10/13/21 09:29
10M87770.D	CAL BNA@.5PPM	10/13/21 09:51
10M87771.D	CAL BNA@10PPM	10/13/21 10:13
10M87772.D	CAL BNA@196PP	10/13/21 10:35
10M87773.D	CAL BNA@160PP	10/13/21 10:58
10M87774.D	CAL BNA@120PP	10/13/21 11:20
10M87775.D	CAL BNA@80PPM	10/13/21 11:42
10M87776.D	CAL BNA@20PPM	10/13/21 12:04
10M87777.D	CAL BNA@50PPM	10/13/21 12:26
10M87778.D	BNA@50PPM	10/13/21 12:49
10M87779.D	ICV BNA@50PPM	10/13/21 13:18

Data Path : G:\GcMsData\2021\GCMS_10\Data\10-13-21\
Data File : 10M87768.D
Acq On : 13 Oct 2021 8:45
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_1012.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Oct 12 13:50:52 2021



Spectrum Information: Average of 10.041 to 10.046 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.5	33064	PASS
68	69	0.00	2	1.3	398	PASS
69	198	0.00	100	49.9	29720	PASS
70	69	0.00	2	0.5	144	PASS
127	198	40	60	57.1	34036	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	59572	PASS
199	198	5	9	6.9	4089	PASS
275	198	10	30	19.2	11421	PASS
365	198	1	100	2.0	1162	PASS
441	443	0.01	100	69.3	4188	PASS
442	198	40	100	51.7	30816	PASS
443	442	17	23	19.6	6043	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M108708.D
Instrument: GCMS 9 **Analysis Date:** 10/13/21 08:48
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.178 to 10.183 min

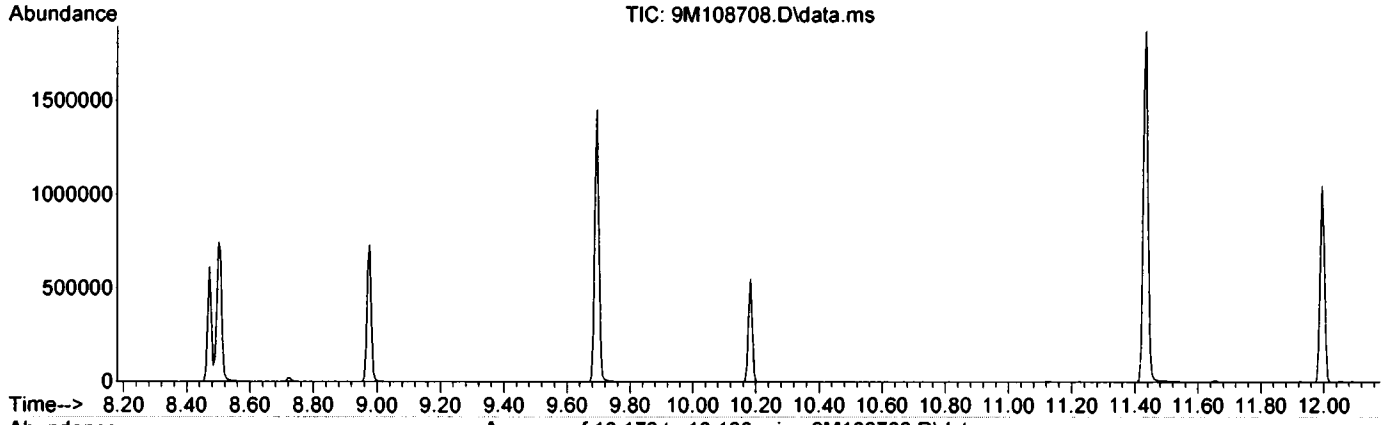
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

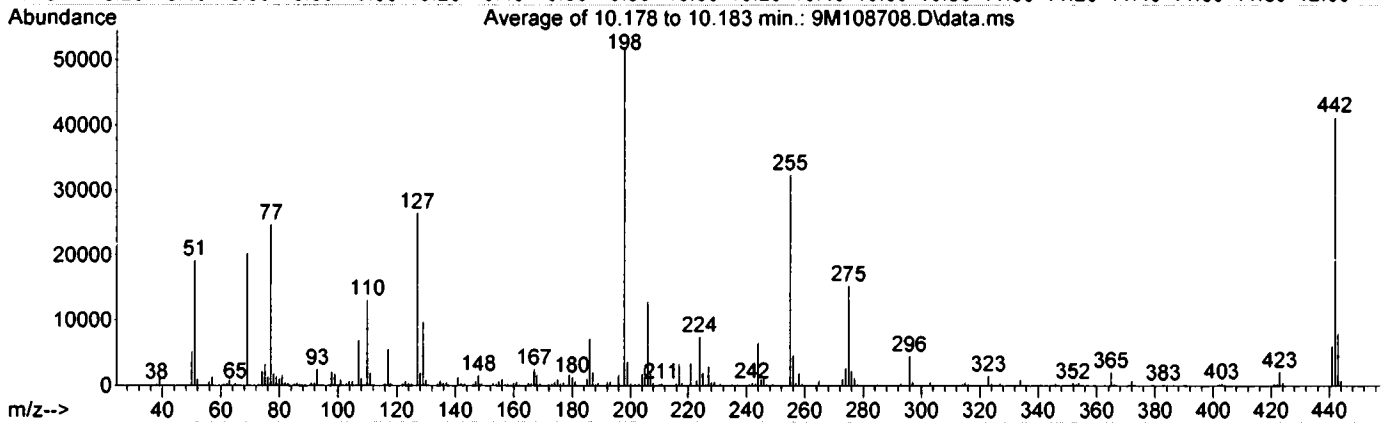
Data File	Sample Number	Analysis Date:
9M108709.D	CAL BNA@10PPM	10/13/21 09:10
9M108710.D	CAL BNA@2PPM	10/13/21 09:41
9M108711.D	CAL BNA@196PP	10/13/21 10:04
9M108712.D	CAL BNA@160PP	10/13/21 10:27
9M108713.D	CAL BNA@120PP	10/13/21 10:50
9M108714.D	CAL BNA@80PPM	10/13/21 11:13
9M108715.D	CAL BNA@20PPM	10/13/21 11:35
9M108716.D	CAL BNA@0.5PP	10/13/21 11:58
9M108717.D	CAL BNA@50PPM	10/13/21 12:21
9M108718.D	BNA@50PPM	10/13/21 12:44
9M108719.D	ICV BNA@50PPM	10/13/21 13:15
9M108720.D	SMB95218	10/13/21 13:38
9M108721.D	AD26497-002	10/13/21 14:01
9M108722.D	AD26497-003	10/13/21 14:24
9M108723.D	AD26497-004	10/13/21 14:47
9M108724.D	AD26497-005	10/13/21 15:10
9M108725.D	AD26383-001(30X)	10/13/21 15:34
9M108726.D	OMB95201	10/13/21 15:57
9M108727.D	SMB95218(MS)	10/13/21 16:20
9M108728.D	SMB95225	10/13/21 16:43
9M108729.D	SMB95225(MS)	10/13/21 17:06
9M108730.D	AD26503-007	10/13/21 17:29
9M108731.D	AD26503-002	10/13/21 17:52
9M108732.D	AD26503-015	10/13/21 18:15
9M108733.D	AD26503-009	10/13/21 18:38
9M108734.D	AD26503-005	10/13/21 19:01
9M108735.D	AD26503-001	10/13/21 19:24
9M108736.D	AD26404-001	10/13/21 19:47
9M108737.D	AD26404-001(MS)	10/13/21 20:10
9M108738.D	AD26404-001(MSD	10/13/21 20:33

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-13-21\
Data File : 9M108708.D
Acq On : 13 Oct 2021 8:48
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1012.M
Title : @GCMS_9,mg,625,8270
Last Update : Tue Oct 12 13:44:04 2021





Spectrum Information: Average of 10.178 to 10.183 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M117279.D
Instrument: GCMS 7 **Analysis Date:** 10/19/21 09:59
Method: EPA 8270E
Tune Scan/Time Range: Average of 9.990 to 10.002 min

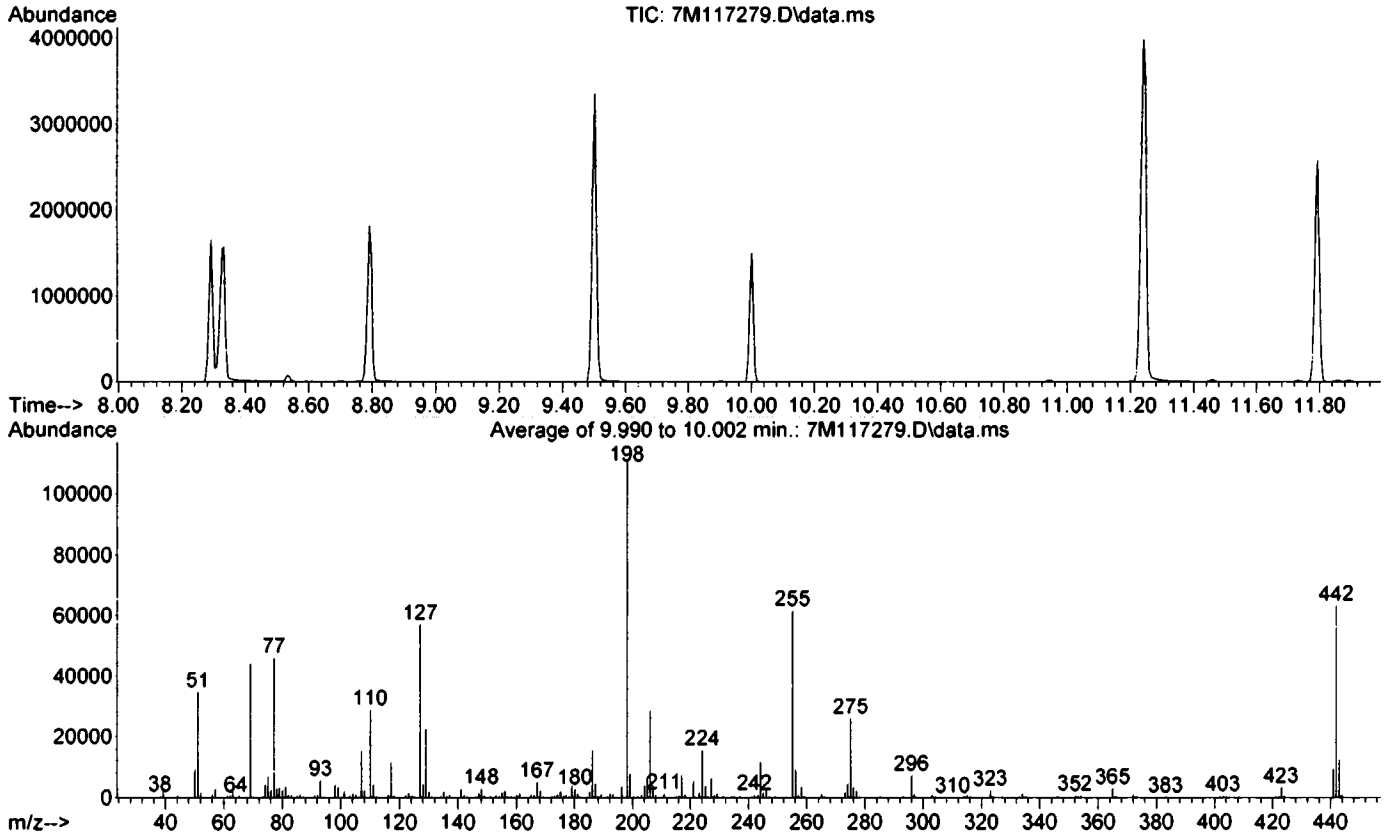
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.3	34826	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	44264	PASS
70	69	0.00	2	0.4	177	PASS
127	198	40	60	51.4	57208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111277	PASS
199	198	5	9	7.0	7788	PASS
275	198	10	30	23.5	26164	PASS
365	198	1	100	2.7	3010	PASS
441	443	0.01	100	74.5	9393	PASS
442	198	40	100	57.0	63373	PASS
443	442	17	23	19.9	12603	PASS

Data File	Sample Number	Analysis Date:
7M117280.D	CAL BNA@50PPM	10/19/21 10:23
7M117281.D	CAL BNA@10PPM	10/19/21 10:47
7M117282.D	CAL BNA@2PPM	10/19/21 11:10
7M117283.D	CAL BNA@196PP	10/19/21 11:34
7M117284.D	CAL BNA@160PP	10/19/21 11:57
7M117285.D	CAL BNA@120PP	10/19/21 12:20
7M117286.D	CAL BNA@80PPM	10/19/21 12:44
7M117287.D	CAL BNA@20PPM	10/19/21 13:07
7M117288.D	CAL BNA@0.5PP	10/19/21 13:31
7M117289.D	ICV BNA@50PPM	10/19/21 13:54

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-19-21\
Data File : 7M117279.D
Acq On : 19 Oct 2021 9:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_0920.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 20 13:06:38 2021



Spectrum Information: Average of 9.990 to 10.002 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	34826	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	44264	PASS
70	69	0.00	2	0.4	177	PASS
127	198	40	60	51.4	57208	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111277	PASS
199	198	5	9	7.0	7788	PASS
275	198	10	30	23.5	26164	PASS
365	198	1	100	2.7	3010	PASS
441	443	0.01	100	74.5	9393	PASS
442	198	40	100	57.0	63373	PASS
443	442	17	23	19.9	12603	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 10M87990.D
Instrument: GCMS 10 **Analysis Date:** 10/28/21 09:03
Method: EPA 8270E
Tune Scan/Time Range: Average of 10.024 to 10.040 min

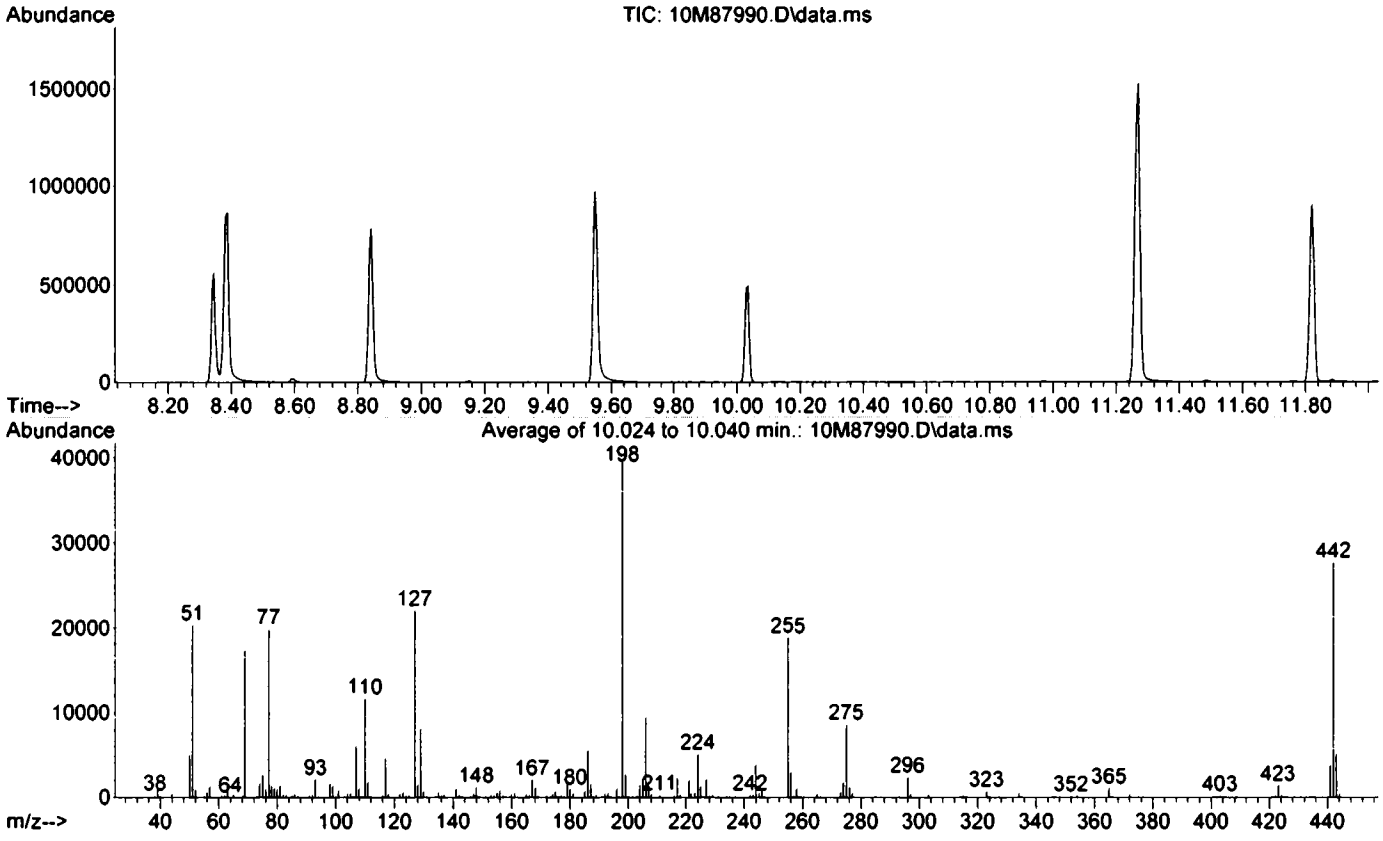
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	51.1	20349	PASS
68	69	0.00	2	1.3	219	PASS
69	198	0.00	100	43.9	17496	PASS
70	69	0.00	2	0.4	67	PASS
127	198	40	60	55.3	22027	PASS
197	198	0.00	1	0.1	47	PASS
198	198	100	100	100.0	39858	PASS
199	198	5	9	6.9	2736	PASS
275	198	10	30	21.6	8607	PASS
365	198	1	100	2.7	1094	PASS
441	443	0.01	100	74.4	3801	PASS
442	198	40	100	69.3	27619	PASS
443	442	17	23	18.5	5106	PASS

Data File	Sample Number	Analysis Date:
10M87991.D	CAL BNA@50PPM	10/28/21 09:25
10M87992.D	WMB95406	10/28/21 09:52
10M87993.D	AD26826-001	10/28/21 10:15
10M87994.D	AD26826-002	10/28/21 10:37
10M87995.D	AD26826-003	10/28/21 10:59
10M87996.D	AD26826-004	10/28/21 11:22
10M87997.D	AD26826-005	10/28/21 11:44
10M87998.D	AD26826-006	10/28/21 12:06
10M87999.D	AD26826-007	10/28/21 12:29
10M88000.D	AD26826-008	10/28/21 12:51
10M88001.D	AD26826-009	10/28/21 13:13
10M88002.D	AD26826-010	10/28/21 13:36
10M88003.D	AD26826-007(MS)	10/28/21 13:58
10M88004.D	AD26826-007(MSD	10/28/21 14:21
10M88005.D	SMB95410	10/28/21 14:43
10M88006.D	SMB95410(MS)	10/28/21 15:05

Data Path : G:\GcMsData\2021\GCMS_10\Data\10-28-21\
Data File : 10M87990.D
Acq On : 28 Oct 2021 9:03
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_1013.M
Title : @GCMS_10,mg,625,8270
Last Update : Wed Oct 13 12:55:15 2021



Spectrum Information: Average of 10.024 to 10.040 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.1	20349	PASS
68	69	0.00	2	1.3	219	PASS
69	198	0.00	100	43.9	17496	PASS
70	69	0.00	2	0.4	67	PASS
127	198	40	60	55.3	22027	PASS
197	198	0.00	1	0.1	47	PASS
198	198	100	100	100.0	39858	PASS
199	198	5	9	6.9	2736	PASS
275	198	10	30	21.6	8607	PASS
365	198	1	100	2.7	1094	PASS
441	443	0.01	100	74.4	3801	PASS
442	198	40	100	69.3	27619	PASS
443	442	17	23	18.5	5106	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M117452.D
Analysis Date: 10/28/21 09:11
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.008 to 10.014 min

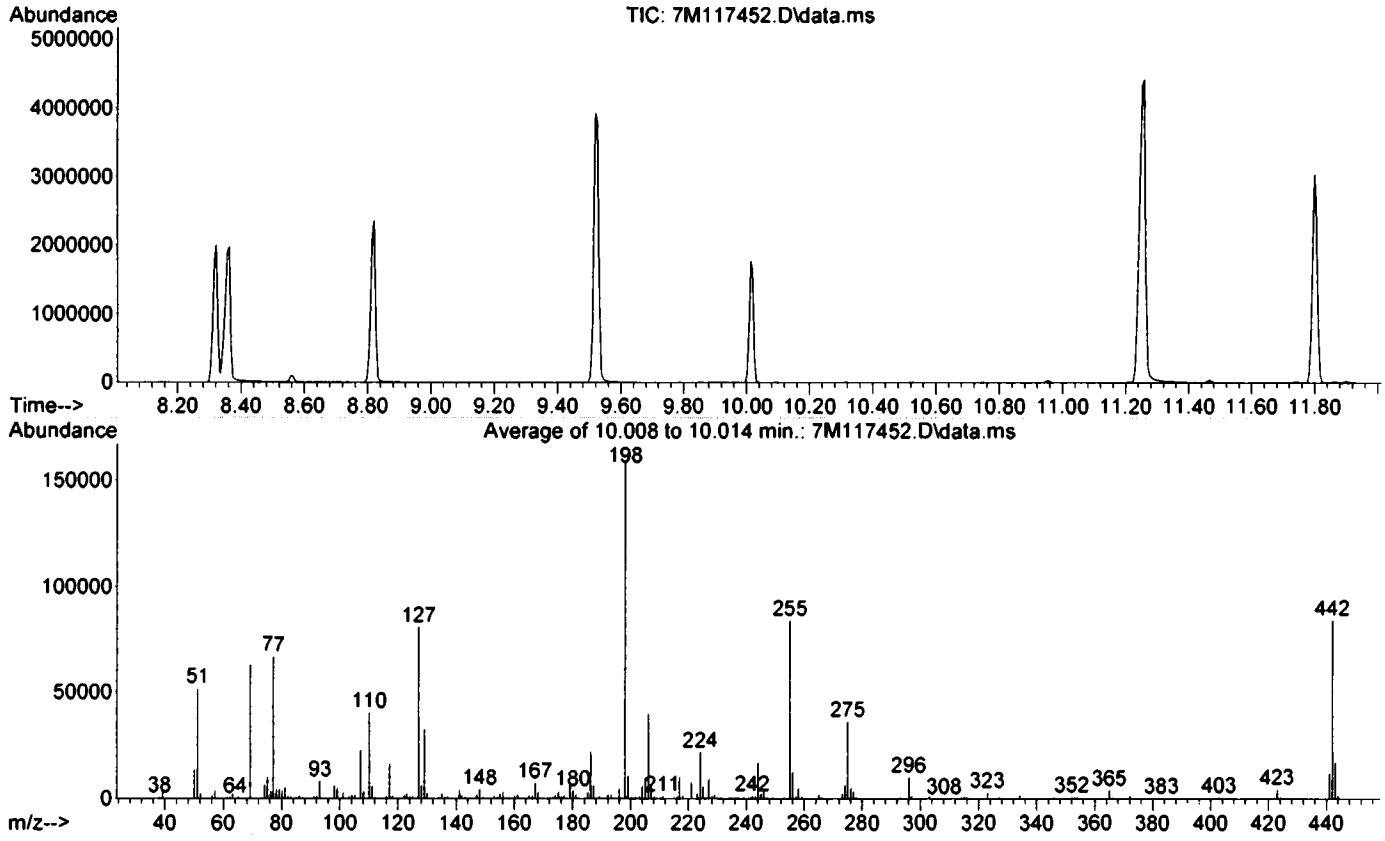
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	32.6	51956	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	63400	PASS
70	69	0.00	2	0.5	341	PASS
127	198	40	60	50.8	81004	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	159376	PASS
199	198	5	9	6.8	10807	PASS
275	198	10	30	22.8	36324	PASS
365	198	1	100	2.5	3955	PASS
441	443	0.01	100	69.2	11993	PASS
442	198	40	100	53.0	84540	PASS
443	442	17	23	20.5	17320	PASS

Data File	Sample Number	Analysis Date:
7M117453.D	CAL BNA@50PPM	10/28/21 09:34
7M117454.D	WMB95406(MS)	10/28/21 10:03
7M117455.D	WMB95406	10/28/21 10:27
7M117456.D	AD26819-018	10/28/21 10:51
7M117457.D	AD26826-011	10/28/21 11:15
7M117458.D	AD26826-012	10/28/21 11:39
7M117459.D	AD26826-013	10/28/21 12:03
7M117460.D	AD26866-003	10/28/21 12:27
7M117461.D	AD26866-004	10/28/21 12:51
7M117462.D	AD26866-007	10/28/21 13:15
7M117463.D	AD26866-008	10/28/21 13:39
7M117464.D	AD26866-009	10/28/21 14:02
7M117465.D	AD26866-010	10/28/21 14:26
7M117466.D	AD26864-001	10/28/21 14:50
7M117467.D	AD26805-002(R)	10/28/21 15:14
7M117468.D	AD26864-001(10X)	10/28/21 16:33
7M117469.D	AD26856-002	10/28/21 18:03
7M117470.D	AD26744-001	10/28/21 18:26
7M117471.D	AD26744-002	10/28/21 18:50
7M117472.D	AD26744-003	10/28/21 19:14
7M117473.D	AD26731-001	10/28/21 19:38
7M117474.D	AD26731-003	10/28/21 20:02
7M117475.D	AD26744-004	10/28/21 20:26
7M117476.D	AD26744-005	10/28/21 20:50
7M117477.D	AD26731-002	10/28/21 21:14

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-28-21\
Data File : 7M117452.D
Acq On : 28 Oct 2021 9:11
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1019.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Oct 19 14:07:31 2021



Spectrum Information: Average of 10.008 to 10.014 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.6	51956	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	63400	PASS
70	69	0.00	2	0.5	341	PASS
127	198	40	60	50.8	81004	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	159376	PASS
199	198	5	9	6.8	10807	PASS
275	198	10	30	22.8	36324	PASS
365	198	1	100	2.5	3955	PASS
441	443	0.01	100	69.2	11993	PASS
442	198	40	100	53.0	84540	PASS
443	442	17	23	20.5	17320	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109151.D
Analysis Date: 10/28/21 10:19
Method: EPA 8270E

Tune Scan/Time Range: Scan 1317

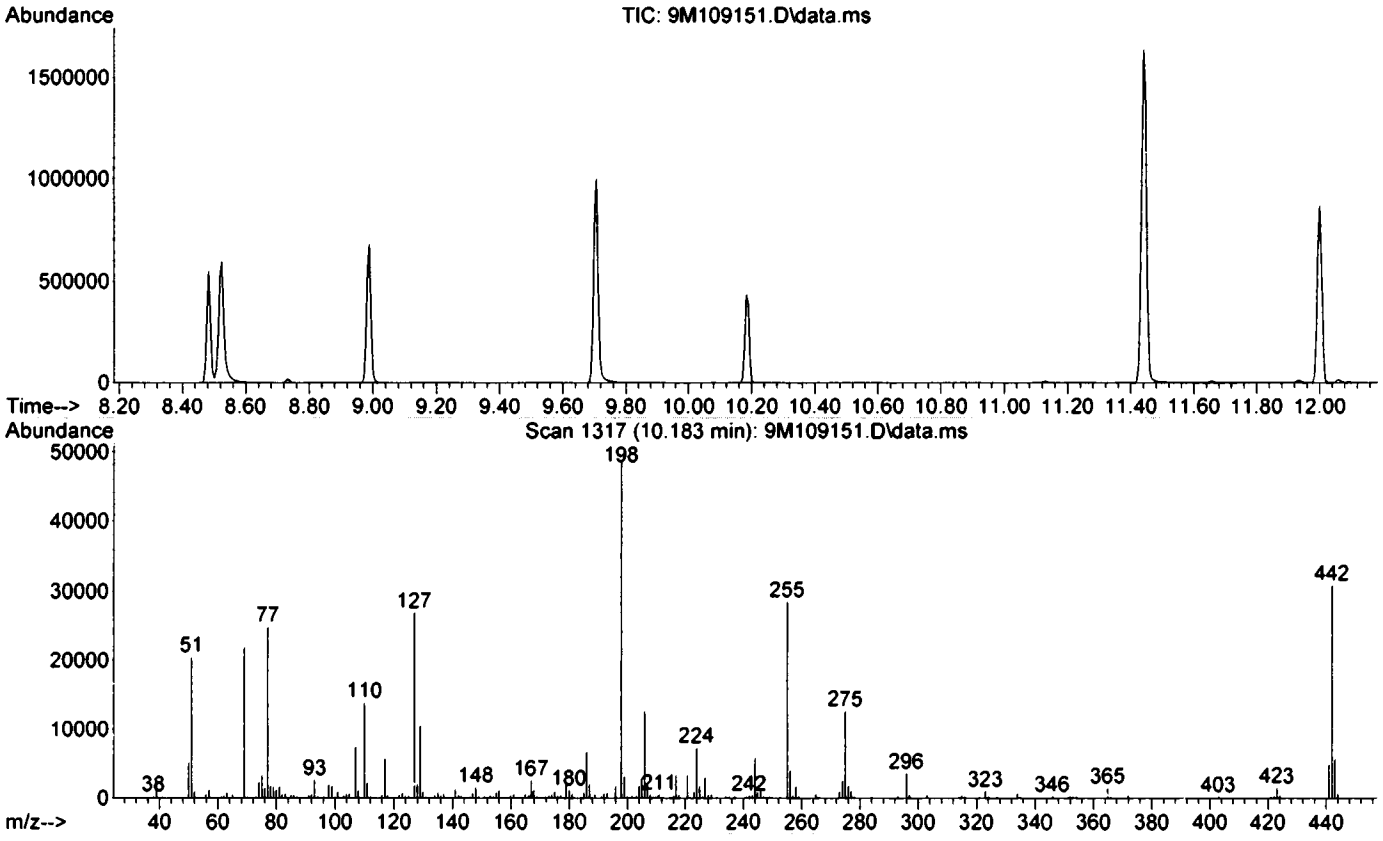
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	42.0	20528	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.1	22000	PASS
70	69	0.00	2	0.8	184	PASS
127	198	40	60	55.2	26944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48832	PASS
199	198	5	9	6.5	3166	PASS
275	198	10	30	25.9	12667	PASS
365	198	1	100	3.0	1473	PASS
441	443	0.01	100	86.8	4931	PASS
442	198	40	100	63.2	30872	PASS
443	442	17	23	18.4	5680	PASS

Data File	Sample Number	Analysis Date:
9M109152.D	CAL BNA@50PPM	10/28/21 10:42
9M109153.D	AD26698-007(5X)	10/28/21 11:06
9M109154.D	AD26650-007(10X)	10/28/21 11:29
9M109155.D	AD26698-004(10X)	10/28/21 11:52
9M109156.D	AD26709-001(20X)	10/28/21 12:15
9M109157.D	AD26709-002(20X)	10/28/21 12:39
9M109158.D	AD26709-001(60X)	10/28/21 13:36
9M109159.D	AD26709-002(60X)	10/28/21 13:59
9M109160.D	AD26664-001	10/28/21 14:32
9M109161.D	AD26663-001	10/28/21 14:55
9M109162.D	AD26657-001	10/28/21 15:18
9M109163.D	SMB95410	10/28/21 15:41
9M109164.D	AD26709-002(200X	10/28/21 16:04
9M109165.D	OMB95419	10/28/21 16:39
9M109166.D	OMB95419(MS)	10/28/21 17:01
9M109167.D	AD26897-001(5X)	10/28/21 17:24
9M109168.D	AD26940-001(5X)	10/28/21 17:47
9M109169.D	AD26870-001	10/28/21 18:10
9M109170.D	AD26841-006	10/28/21 18:33
9M109171.D	AD26841-004	10/28/21 18:57
9M109172.D	AD26842-002	10/28/21 19:20
9M109173.D	AD26842-004	10/28/21 19:43
9M109174.D	AD26842-006	10/28/21 20:06
9M109175.D	AD26856-001(3X)	10/28/21 20:29
9M109176.D	AD26856-001(3X)(	10/28/21 20:52
9M109177.D	AD26856-001(3X)(	10/28/21 21:15
9M109178.D	AD26841-002	10/28/21 21:38
9M109179.D	AD26940-001(5X)(	10/28/21 22:01
9M109180.D	AD26940-001(5X)(	10/28/21 22:24
9M109181.D	AD26941-001(5X)	10/28/21 22:48

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-28-21\
Data File : 9M109151.D
Acq On : 28 Oct 2021 10:19
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1013.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Oct 13 12:40:21 2021



Spectrum Information: Scan 1317

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.0	20528	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.1	22000	PASS
70	69	0.00	2	0.8	184	PASS
127	198	40	60	55.2	26944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48832	PASS
199	198	5	9	6.5	3166	PASS
275	198	10	30	25.9	12667	PASS
365	198	1	100	3.0	1473	PASS
441	443	0.01	100	86.8	4931	PASS
442	198	40	100	63.2	30872	PASS
443	442	17	23	18.4	5680	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M117478.D
Analysis Date: 10/29/21 08:58
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.990 to 9.996 min

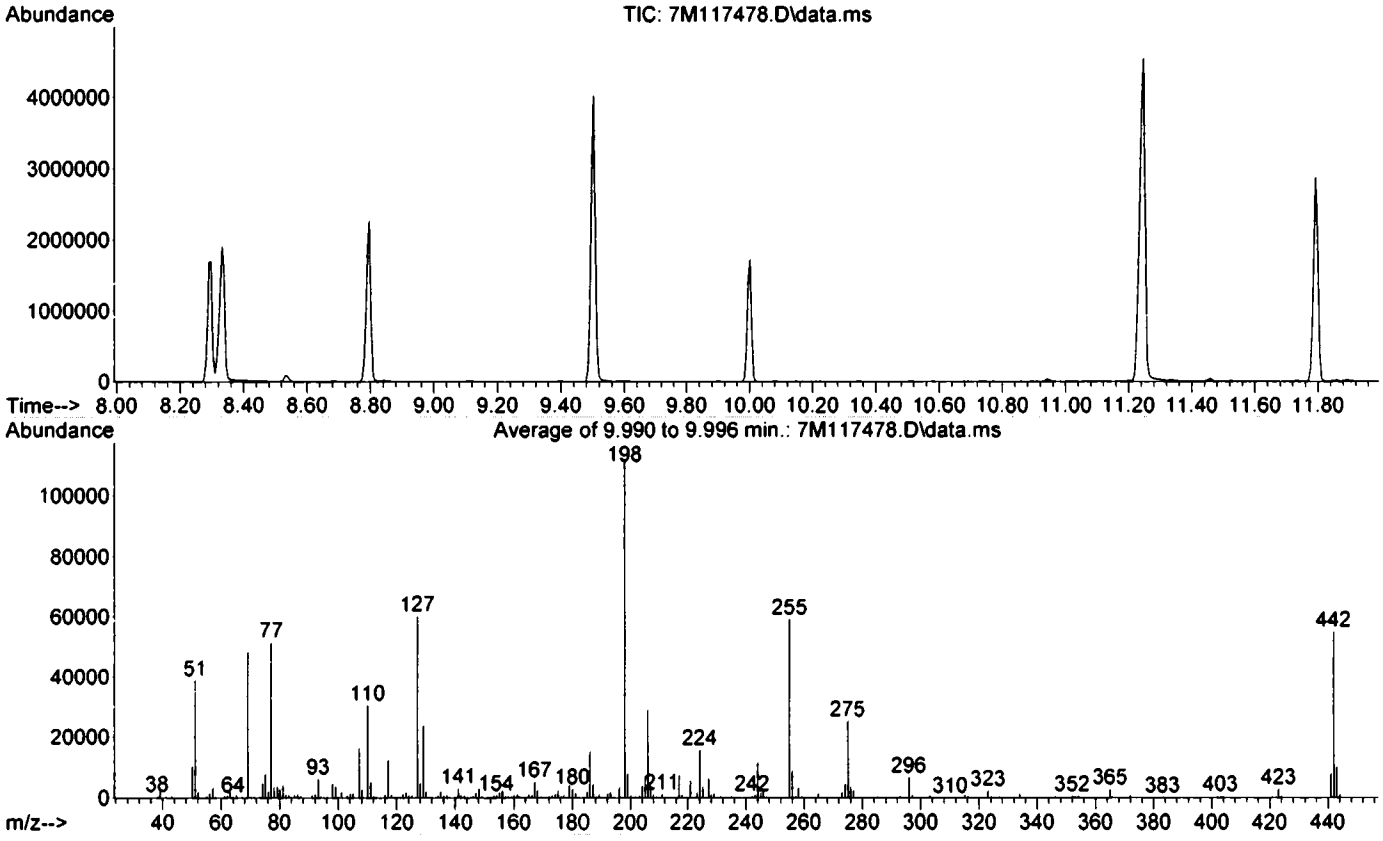
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.7	38900	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	48440	PASS
70	69	0.00	2	0.8	377	PASS
127	198	40	60	53.9	60324	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112004	PASS
199	198	5	9	7.2	8050	PASS
275	198	10	30	22.7	25373	PASS
365	198	1	100	2.5	2791	PASS
441	443	0.01	100	78.0	7966	PASS
442	198	40	100	49.2	55156	PASS
443	442	17	23	18.5	10208	PASS

Data File	Sample Number	Analysis Date:
7M117479.D	CAL BNA@50PPM	10/29/21 09:25
7M117480.D	SMB95425(MS)	10/29/21 09:55
7M117481.D	SMB95425	10/29/21 10:19
7M117482.D	WMB95414	10/29/21 10:43
7M117483.D	AD26832-001	10/29/21 11:07
7M117484.D	AD26832-002	10/29/21 11:30
7M117485.D	SMB95410	10/29/21 11:54
7M117486.D	AD26832-003	10/29/21 12:18
7M117487.D	AD26832-004	10/29/21 12:42
7M117488.D	AD26832-005	10/29/21 13:06
7M117489.D	AD26832-006	10/29/21 13:30
7M117490.D	AD26832-007	10/29/21 13:54
7M117491.D	AD26845-001	10/29/21 14:18
7M117492.D	AD26845-002	10/29/21 14:42
7M117493.D	AD26845-003	10/29/21 15:06
7M117494.D	AD26845-004	10/29/21 15:29
7M117495.D	AD26845-005	10/29/21 15:53
7M117496.D	AD26731-002(5X)	10/29/21 16:17
7M117497.D	SMB95427	10/29/21 16:41
7M117498.D	AD26846-002	10/29/21 17:05
7M117499.D	AD26846-004	10/29/21 17:29
7M117500.D	AD26846-006	10/29/21 17:53
7M117501.D	AD26844-002	10/29/21 18:17
7M117502.D	AD26844-006	10/29/21 18:41
7M117503.D	AD26843-006	10/29/21 19:05
7M117504.D	SMB95411(MS)	10/29/21 19:29
7M117505.D	SMB95411	10/29/21 19:53
7M117506.D	AD26682-005	10/29/21 20:17
7M117507.D	AD26682-003	10/29/21 20:41

Data Path : G:\GcMsData\2021\GCMS_7\Data\10-29-21\
Data File : 7M117478.D
Acq On : 29 Oct 2021 8:58
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1019.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Oct 19 14:07:31 2021



Spectrum Information: Average of 9.990 to 9.996 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.7	38900	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	48440	PASS
70	69	0.00	2	0.8	377	PASS
127	198	40	60	53.9	60324	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112004	PASS
199	198	5	9	7.2	8050	PASS
275	198	10	30	22.7	25373	PASS
365	198	1	100	2.5	2791	PASS
441	443	0.01	100	78.0	7966	PASS
442	198	40	100	49.2	55156	PASS
443	442	17	23	18.5	10208	PASS

1101901 0090

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9967	1.2587	0.9821	1.0511	1.0153	1.0078	1.0099	1.0990	1.0847	1.06	2.84	0.998	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.1791	2.0556	1.8617	2.2586	2.2815	2.2742	2.2705	2.4575	----	2.20	3.29	0.997	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5572	1.5979	1.4786	1.6325	1.6047	1.6170	1.6167	1.7398	----	1.61	3.24	0.998	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.4221	2.5841	2.2341	2.4896	2.5154	2.5095	2.5256	2.6466	----	2.49	4.77	0.999	1.00	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0211	2.2026	1.9797	2.1751	2.1512	2.1183	2.1124	2.2106	----	2.12	5.60	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.8157	4.2856	3.7093	4.1026	3.9736	3.8771	3.8815	4.0444	4.5998	4.03	5.69	0.999	0.999	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8633	0.9564	0.8304	0.9149	0.8978	0.8910	0.8906	0.9426	----	0.898	5.73	0.998	0.999	4.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4637	2.8983	2.4493	2.6227	2.5602	2.5214	2.5125	2.6315	2.9209	2.62	5.74	0.999	0.999	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9016	3.0275	2.7234	3.0537	3.0375	2.9786	2.9559	3.1087	----	2.97	5.64	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.5176	4.0101	3.4491	3.7201	3.6421	3.5766	3.5502	3.7101	----	3.65	5.65	0.999	0.999	4.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.6895	2.7936	2.5896	2.8354	2.7964	2.7785	2.7484	2.8730	----	2.76	5.78	0.999	0.999	3.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.3069	2.8347	2.3718	2.4694	2.3978	2.3390	2.3015	2.3993	----	2.43	5.82	0.999	0.999	7.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0576	3.4863	2.9330	3.2223	3.0602	2.9992	2.9263	3.0939	----	3.10	5.92	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5601	1.8255	1.5759	1.6233	1.5845	1.5758	1.5519	1.7277	----	1.63	5.98	0.995	0.997	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4744	1.7771	1.5216	1.5356	1.4876	1.4909	1.4640	1.6198	----	1.55	6.11	0.995	0.998	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8832	0.9251	0.8568	0.8971	0.9273	0.9321	0.9374	1.0272	----	0.923	6.08	0.997	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3833	1.8059	1.5704	1.5107	1.4879	1.4835	1.4923	1.6377	----	1.55	6.19	0.995	0.998	8.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2096	1.2825	1.2067	1.2604	1.2563	1.2664	1.2540	1.3867	1.2718	1.27	6.16	0.995	0.998	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7481	2.0040	1.8292	1.8339	1.7809	1.7407	1.6852	1.8094	----	1.80	6.30	0.998	0.998	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5416	0.6131	0.5354	0.5617	0.5654	0.5708	0.5684	0.6328	----	0.574	6.38	0.997	0.999	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8436	0.9419	0.8753	0.9068	0.8861	0.8701	0.8528	0.9199	0.8777	0.886	6.29	0.998	0.999	3.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2621	1.3278	1.2726	1.3267	1.3182	1.2892	1.2678	1.3354	1.2477	1.29	6.28	0.999	0.999	2.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1538	0.1347	0.1391	0.1555	0.1595	0.1635	0.1625	0.1818	----	0.156	6.42	0.994	0.998	9.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3246	0.3403	0.3274	0.3417	0.3385	0.3397	0.3381	0.3732	----	0.340	6.43	0.995	0.998	4.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6066	0.6527	0.5993	0.6496	0.6287	0.6311	0.6280	0.6962	----	0.637	6.61	0.995	0.998	4.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1807	0.1433	0.1556	0.1821	0.1902	0.1955	0.1944	0.2180	----	0.183	6.68	0.996	0.999	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3252	0.3241	0.3126	0.3391	0.3350	0.3366	0.3334	0.3704	0.2924	0.330	6.70	0.995	0.998	6.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1725	----	0.0463	0.1327	0.2149	0.2448	0.2464	0.2676	----	0.189	6.75	0.994	0.999	41		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3610	0.4386	0.3697	0.3851	0.3786	0.3794	0.3739	0.4109	----	0.387	6.77	0.996	0.998	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2891	0.2593	0.2611	0.2958	0.2915	0.2974	0.2933	0.3231	0.2484	0.284	6.86	0.996	0.998	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3247	0.3833	0.3100	0.3313	0.3208	0.3239	0.3212	0.3589	----	0.334	6.92	0.994	0.997	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0511	1.2703	1.0722	1.1160	1.0432	1.0377	1.0061	1.0912	1.2970	1.11	7.00	0.998	0.998	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4130	0.4122	0.4021	0.4307	0.4186	0.4093	0.4009	0.4393	0.4191	0.416	7.02	0.997	0.998	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1972	0.2209	0.1798	0.1990	0.1923	0.1994	0.1960	0.2186	----	0.200	7.08	0.994	0.998	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1017	0.0632	0.0804	0.1023	0.1053	0.1077	0.1070	0.1157	----	0.0979	7.30	0.997	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2721	0.2416	0.2470	0.2776	0.2828	0.2892	0.2866	0.3166	----	0.277	7.39	0.995	0.998	8.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6990	0.7632	0.6886	0.7388	0.6943	0.6896	0.6774	0.7375	----	0.711	7.54	0.997	0.998	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6465	0.7381	0.6446	0.6957	0.6508	0.6430	0.6240	0.6890	----	0.666	7.54	0.996	0.997	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6729	0.7506	0.6634	0.7147	0.6677	0.6641	0.6504	0.7101	----	0.687	7.61	0.996	0.998	5.0		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8277	0.9459	0.8090	0.8669	0.8143	0.8074	0.7883	0.8659	----	0.841	7.91	0.996	0.998	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6844	0.7366	0.6378	0.7025	0.6743	0.6935	0.6879	0.7492	----	0.696	7.67	0.996	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.021

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0091

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.4007	0.2657	0.3066	0.3782	0.4226	0.4455	0.4536	0.5036	----	0.397	7.65	0.993	0.999	20	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4299	0.3414	0.3574	0.4241	0.4740	0.4495	0.4414	0.4886	----	0.426	7.75	0.995	0.997	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4394	0.3518	0.3885	0.4595	0.4632	0.4761	0.4623	0.5255	----	0.446	7.78	0.996	0.998	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4698	1.6369	1.4268	1.5270	1.4593	1.4966	1.4740	1.6110	----	1.51	7.82	0.998	0.999	4.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2671	1.4237	1.2376	1.3444	1.2681	1.2832	1.2750	1.3912	----	1.31	7.94	0.998	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.9032	0.9895	0.8537	0.9412	0.8983	0.9172	0.8985	0.9859	----	0.923	8.00	0.996	0.998	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3744	0.3185	0.3439	0.3879	0.4004	0.4124	0.4117	0.4479	----	0.387	8.01	0.996	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4963	0.4977	0.4772	0.5247	0.5072	0.5130	0.5061	0.5447	----	0.508	8.20	0.997	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9640	2.0683	1.8862	2.0434	1.9736	1.9770	1.9309	2.0753	----	1.99	8.30	0.999	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3903	1.5091	1.3612	1.4778	1.4037	1.4308	1.4169	1.5340	----	1.44	8.15	0.997	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3269	0.2527	0.2927	0.3223	0.3313	0.3379	0.3265	0.3459	----	0.317	8.22	0.999	0.999	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2392	1.4339	1.2186	1.3071	1.2403	1.2377	1.2217	1.3054	----	1.28	8.45	0.998	0.999	5.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3672	0.3019	0.3253	0.3765	0.3799	0.3842	0.3808	0.4136	----	0.366	8.37	0.997	0.999	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1501	----	0.0603	0.1087	0.1823	0.2026	0.2039	0.2266	----	0.162	8.47	0.993	0.999	37	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8016	2.1079	1.7999	1.9020	1.8069	1.8031	1.7743	1.9321	2.1281	1.90	8.61	0.997	0.998	7.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4226	0.2885	0.3468	0.4208	0.4346	0.4509	0.4488	0.4931	----	0.413	8.58	0.995	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2269	0.0949	0.1590	0.2316	0.2516	0.2547	0.2657	0.2894	----	0.222	8.49	0.994	0.999	29	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.4203	0.3175	0.3515	0.4123	0.4201	0.4335	0.4306	0.4751	----	0.408	8.71	0.995	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4449	1.5231	1.4006	1.5278	1.4390	1.4559	1.4289	1.5292	----	1.47	8.94	0.998	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7572	0.7985	0.7008	0.7730	0.7507	0.7742	0.7717	0.8455	----	0.771	8.92	0.997	0.999	5.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2901	1.3979	1.2646	1.3963	1.3568	1.3801	1.3724	1.4937	----	1.37	8.80	0.996	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3849	0.2747	0.3370	0.3990	0.4018	0.4164	0.4137	0.4532	----	0.385	8.94	0.996	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4011	0.3140	0.3366	0.4064	0.4136	0.4292	0.4269	0.4669	----	0.399	9.57	0.996	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1149	----	0.0705	0.1018	0.1271	0.1371	0.1377	0.1537	----	0.120	8.97	0.993	0.998	23	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6296	0.6578	0.6057	0.6583	0.6343	0.6451	0.6335	0.6984	----	0.645	9.04	0.998	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1430	0.0955	0.1162	0.1404	0.1442	0.1518	0.1524	0.1725	----	0.140	9.17	0.992	0.998	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6138	0.6610	0.6437	0.6858	0.6643	0.6754	0.7300	0.7984	----	0.684	9.08	0.992	0.999	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2568	0.2451	0.2268	0.2551	0.2549	0.2651	0.2632	0.2968	----	0.258	9.42	0.993	0.997	7.7	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.3034	0.3461	0.2825	0.3059	0.3031	0.3125	0.3100	0.3504	----	0.314	9.49	0.992	0.997	7.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3278	0.3038	0.3266	0.3598	0.3670	0.3723	0.3667	0.3970	----	0.353	9.75	0.997	0.999	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1758	----	0.1190	0.1582	0.1866	0.1990	0.1988	0.2268	----	0.181	9.69	0.994	0.998	19	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0638	1.2727	1.0615	1.1336	1.0731	1.0896	1.0736	1.1758	----	1.12	9.93	0.996	0.998	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0941	1.1477	1.0479	1.1410	1.0993	1.1145	1.0989	1.2120	----	1.12	9.99	0.995	0.998	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0007	0.9976	0.9545	1.0480	1.0121	1.0318	1.0095	1.1129	----	1.02	10.15	0.996	0.998	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.0802	0.8391	0.9430	1.1213	1.1757	1.2129	1.1822	1.3027	0.7512	1.07	10.53	0.996	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2144	1.0931	1.0689	1.2256	1.2238	1.2524	1.2332	1.3695	----	1.21	11.27	0.995	0.998	7.8	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1675	1.1970	1.1118	1.2226	1.1714	1.1709	1.1802	1.2715	----	1.19	11.54	0.997	0.999	3.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7001	0.4142	0.5311	0.6788	0.7382	0.7488	0.7469	0.8057	----	0.671	11.42	0.998	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6793	0.6836	0.6206	0.6942	0.6973	0.7137	0.7170	0.8041	----	0.701	11.72	0.993	0.998	7.3		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 9.021

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2430	0.2497	0.2248	0.2476	0.2556	0.2676	0.2769	0.3047	----	0.259	11.65	0.993	0.999	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4260	0.3255	0.3548	0.4248	0.4470	0.4620	0.4640	0.5143	----	0.427	12.05	0.996	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4179	0.2749	0.3473	0.4234	0.4695	0.4925	0.4924	0.5439	----	0.433	12.31	0.994	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3885	0.2638	0.3222	0.3789	0.4145	0.4338	0.4378	0.4851	----	0.391	12.41	0.994	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4990	0.3055	0.3843	0.4713	0.5188	0.5327	0.5292	0.5751	----	0.477	12.94	0.997	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1554	1.2399	1.0905	1.2144	1.1901	1.2150	1.2161	1.3230	----	1.21	12.97	0.996	0.999	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1522	1.4067	1.1114	1.1984	1.1657	1.1347	1.1706	1.2679	----	1.20	13.01	0.996	0.999	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.5743	0.4037	0.5274	0.6162	0.6754	0.6985	0.6940	0.7546	----	0.618	12.99	0.995	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	0.7872	0.3805	0.5873	0.7748	0.9384	1.0004	1.0169	1.1208	----	0.826	13.74	0.993	0.999	30	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0767	0.9118	0.9248	1.0569	1.1321	1.2148	1.1895	1.2903	----	1.10	14.18	0.996	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0226	1.1479	1.0612	1.1833	1.1191	1.1061	1.1487	1.2874	----	1.13	14.21	0.991	0.998	7.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0343	0.9073	0.9447	1.0755	1.0754	1.1166	1.1401	1.2623	----	1.07	14.56	0.993	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1785	1.0481	1.0485	1.2356	1.3053	1.3771	1.4123	1.5753	----	1.27	16.02	0.991	0.999	14	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0072	0.8777	0.9080	1.0620	1.1181	1.1715	1.1943	1.3241	----	1.08	16.05	0.993	0.999	14	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9373	0.9621	0.9140	1.0455	1.0757	1.1254	1.1454	1.2683	----	1.06	16.43	0.992	0.999	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.021
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0093

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M87777.D	CAL BNA@50PPM	10/13/21 12:26	2	10M87769.D	CAL BNA@2PPM	10/13/21 09:29
3	10M87771.D	CAL BNA@10PPM	10/13/21 10:13	4	10M87776.D	CAL BNA@20PPM	10/13/21 12:04
5	10M87775.D	CAL BNA@80PPM	10/13/21 11:42	6	10M87774.D	CAL BNA@120PPM	10/13/21 11:20
7	10M87773.D	CAL BNA@160PPM	10/13/21 10:58	8	10M87772.D	CAL BNA@196PPM	10/13/21 10:35
9	10M87770.D	CAL BNA@.5PPM	10/13/21 09:51				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	1.0145	0.7891	1.1221	1.0780	1.0140	1.0470	1.0038	1.0871	1.0301	1.02	2.74	0.998	0.998	9.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.1389	1.7388	1.7573	2.1217	2.1392	2.3105	2.2229	2.3545	-----	2.10	3.22	0.998	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5564	1.2951	1.4004	1.6364	1.5991	1.6864	1.6124	1.7373	-----	1.57	3.15	0.997	0.998	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.4017	2.4722	2.1925	2.5114	2.4659	2.5912	2.4996	2.6906	-----	2.48	4.69	0.998	0.999	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0916	2.2221	2.0355	2.1530	2.1207	2.2006	2.0896	2.2100	-----	2.14	5.50	0.999	0.999	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.9430	3.9924	3.8638	4.1693	4.0787	4.2360	4.0224	4.3204	4.0459	4.07	5.59	0.999	0.999	3.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8936	0.8717	0.8971	0.9538	0.9230	0.9583	0.9258	0.9860	-----	0.926	5.63	0.998	0.999	4.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.6382	2.9514	2.6354	2.8323	2.6096	2.7113	2.5775	2.6817	3.2069	2.76	5.65	0.999	0.999	7.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.0910	3.0671	2.8004	3.0573	3.0019	3.1448	2.9392	3.1467	-----	3.03	5.56	0.998	0.998	3.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.5919	4.1413	3.3825	3.6734	3.6106	3.7983	3.5694	3.7722	-----	3.69	5.57	0.998	0.999	6.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.7261	2.8165	2.7307	2.8876	2.7877	2.9179	2.7869	2.9422	-----	2.82	5.69	0.998	0.999	2.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	3.1932	3.8296	3.2143	3.4009	3.2778	3.3627	3.1561	3.3049	-----	3.34	5.73	0.999	0.999	6.4	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0396	3.4172	3.1703	3.2211	3.0779	3.2061	2.9987	3.1504	-----	3.16	5.82	0.998	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.6051	1.9854	1.6166	1.6911	1.6306	1.5815	1.5655	1.7206	-----	1.67	5.88	0.996	0.998	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5018	1.7563	1.5088	1.5509	1.5334	1.5080	1.4943	1.6230	-----	1.56	6.01	0.997	0.998	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9272	0.8714	0.8490	0.9434	0.9717	0.9513	0.9538	1.0520	-----	0.940	5.99	0.997	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	2.3000	2.8499	2.3464	2.4507	2.3845	2.3411	2.3180	2.5296	-----	2.44	6.09	0.998	0.999	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2736	1.4326	1.2423	1.3577	1.3340	1.3242	1.2937	1.4378	1.3002	1.33	6.07	0.996	0.998	5.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8344	2.1244	1.8275	1.9143	1.8216	1.7020	1.6289	1.7533	-----	1.83	6.20	0.997	0.997	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5670	0.6235	0.5667	0.6080	0.5996	0.5869	0.5763	0.6411	-----	0.596	6.28	0.995	0.997	4.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9596	0.9299	0.9249	1.0214	0.9536	0.8907	0.8666	0.9439	0.8913	0.931	6.19	0.997	0.997	5.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3448	1.5231	1.3056	1.4073	1.3549	1.2526	1.1993	1.2818	1.4119	1.34	6.19	0.997	0.997	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1565	0.1380	0.1349	0.1553	0.1583	0.1642	0.1667	0.1769	-----	0.156	6.32	0.997	1.00	9.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3308	0.3655	0.3192	0.3407	0.3327	0.3428	0.3394	0.3683	-----	0.342	6.33	0.997	0.999	4.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6215	0.6246	0.5886	0.6501	0.6289	0.6405	0.6348	0.6963	-----	0.636	6.52	0.996	0.998	4.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1835	0.1501	0.1716	0.1836	0.1894	0.1956	0.1969	0.2118	-----	0.185	6.58	0.997	0.999	10	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3437	0.3691	0.3301	0.3487	0.3376	0.3456	0.3425	0.3704	0.3878	0.353	6.61	0.997	0.999	5.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1577	-----	0.0467	0.1251	0.2065	0.2334	0.2424	0.2707	-----	0.183	6.68	0.991	0.999	43		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3813	0.4475	0.3793	0.3998	0.3865	0.3885	0.3825	0.4102	-----	0.397	6.68	0.998	0.999	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2795	0.2744	0.2628	0.2803	0.2764	0.2825	0.2801	0.2990	0.2277	0.274	6.76	0.999	1.00	7.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2857	0.3459	0.2775	0.2929	0.2815	0.2835	0.2797	0.3025	-----	0.294	6.83	0.997	0.999	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0089	1.1491	1.0634	1.0441	1.0303	1.0460	1.0108	1.0915	1.2318	1.08	6.89	0.998	0.999	6.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4177	0.4292	0.4090	0.4341	0.4130	0.4089	0.4007	0.4217	0.4639	0.422	6.93	0.999	0.999	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1374	0.1493	0.1379	0.1410	0.1381	0.1411	0.1381	0.1488	-----	0.142	6.98	0.997	0.999	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1046	0.0854	0.0835	0.1040	0.1064	0.1095	0.1177	0.1052	-----	0.102	7.20	0.994	0.995	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2875	0.3049	0.2597	0.2976	0.2884	0.2941	0.2942	0.3200	-----	0.293	7.29	0.996	0.999	5.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7146	0.8279	0.7135	0.7388	0.7066	0.7065	0.6870	0.7295	-----	0.728	7.42	0.998	0.999	5.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6683	0.7381	0.6709	0.7081	0.6568	0.6648	0.6489	0.6907	-----	0.681	7.51	0.998	0.999	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6863	0.7831	0.6893	0.7245	0.6785	0.6825	0.6638	0.7070	-----	0.702	7.42	0.998	0.999	5.4		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8206	0.9503	0.8223	0.8519	0.8031	0.8055	0.7946	0.8350	-----	0.835	7.80	0.999	0.999	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5134	0.5960	0.5170	0.5318	0.5174	0.5082	0.5069	0.5341	-----	0.528	7.56	0.999	1.00	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.42

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0094

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M87777.D	CAL BNA@50PPM	10/13/21 12:26	2	10M87769.D	CAL BNA@2PPM	10/13/21 09:29
3	10M87771.D	CAL BNA@10PPM	10/13/21 10:13	4	10M87776.D	CAL BNA@20PPM	10/13/21 12:04
5	10M87775.D	CAL BNA@80PPM	10/13/21 11:42	6	10M87774.D	CAL BNA@120PPM	10/13/21 11:20
7	10M87773.D	CAL BNA@160PPM	10/13/21 10:58	8	10M87772.D	CAL BNA@196PPM	10/13/21 10:35
9	10M87770.D	CAL BNA@.5PPM	10/13/21 09:51				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.2414	0.1520	0.1785	0.2168	0.2616	0.2749	0.2765	0.3042	----	0.238	7.55	0.994	0.999	22	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3645	0.3433	0.3202	0.3632	0.3683	0.3705	0.3735	0.4014	----	0.363	7.64	0.997	0.999	6.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4004	0.3643	0.3571	0.3973	0.3974	0.4010	0.4089	0.4349	----	0.395	7.68	0.997	0.999	6.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4303	1.6590	1.4010	1.4758	1.4269	1.4353	1.4379	1.5369	----	1.48	7.71	0.999	0.999	5.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2787	1.4506	1.2060	1.2993	1.2582	1.2542	1.2431	1.3147	----	1.29	7.82	0.999	0.999	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0552	1.3385	1.0653	1.1126	1.0246	0.9757	0.9269	0.9481	----	1.06	8.10	0.998	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0552	1.3385	1.0653	1.1126	1.0246	0.9757	0.9269	0.9481	----	1.06	8.10	0.998	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8759	1.0349	0.8487	0.9134	0.8830	0.8679	0.8630	0.9059	----	0.899	7.88	0.999	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4506	0.4606	0.4009	0.4496	0.4601	0.4534	0.4477	0.4798	----	0.450	7.90	0.998	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5160	0.5385	0.5101	0.5447	0.5171	0.4967	0.4727	0.4855	----	0.510	8.09	0.999	0.999	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	2.1012	2.3040	2.0238	2.1685	2.0796	2.0565	2.0339	2.1577	----	2.12	8.18	0.999	0.999	4.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Qua	1.3916	2.3277	1.3922	1.4581	1.4051	1.3883	1.3840	1.4831	----	1.53	8.04	0.997	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3172	0.2947	0.2999	0.3395	0.3182	0.3070	0.3002	0.3096	----	0.311	8.10	0.999	0.999	4.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2715	1.4360	1.2550	1.3236	1.2843	1.2498	1.2281	1.2946	----	1.29	8.33	0.999	0.999	5.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.4038	0.3550	0.3584	0.4171	0.4032	0.4008	0.3987	0.4309	----	0.396	8.25	0.997	0.998	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1387	----	0.0681	0.1020	0.1705	0.1826	0.1987	0.2112	----	0.153	8.34	0.994	1.00	34	0.20	a 50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7904	2.1243	1.7644	1.8597	1.8057	1.7700	1.7603	1.8670	2.0993	1.87	8.48	0.999	0.999	7.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4357	0.3477	0.3817	0.4401	0.4403	0.4484	0.4527	0.4877	----	0.429	8.46	0.997	0.999	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2613	0.1934	0.2065	0.2432	0.2871	0.2829	0.2897	0.3126	----	0.260	8.38	0.996	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.2945	0.2438	0.2602	0.2942	0.3032	0.2968	0.3022	0.3264	----	0.290	8.59	0.998	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4594	1.6779	1.4337	1.5101	1.4587	1.4291	1.4250	1.4929	----	1.49	8.81	0.999	0.999	5.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6204	0.7037	0.6093	0.6353	0.6180	0.6132	0.6107	0.6486	----	0.632	8.79	0.998	0.999	5.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3900	1.6039	1.3662	1.4690	1.4169	1.4088	1.3940	1.4893	----	1.44	8.67	0.998	0.999	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.4291	0.3340	0.3619	0.4266	0.4342	0.4358	0.4427	0.4732	----	0.417	8.82	0.997	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3481	0.3295	0.3144	0.3606	0.3564	0.3561	0.3622	0.3881	----	0.352	9.43	0.997	0.999	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1159	----	0.0733	0.1003	0.1271	0.1343	0.1398	0.1513	----	0.120	8.84	0.995	1.00	22	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.7051	0.7813	0.6826	0.7399	0.7127	0.7093	0.7010	0.7384	----	0.721	8.91	0.999	1.00	4.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0816	0.0716	0.0752	0.0846	0.0878	0.0920	0.0928	0.1028	----	0.0861	9.04	0.993	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7965	0.8449	0.7654	0.9093	0.8818	0.8811	0.8737	0.9363	----	0.861	8.95	0.998	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1810	0.1998	0.1711	0.1883	0.1817	0.1863	0.1840	0.1978	----	0.186	9.28	0.997	0.999	5.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.1869	0.1884	0.1802	0.1940	0.1884	0.1923	0.1952	0.2073	----	0.192	9.36	0.998	0.999	4.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.5888	0.6710	0.5696	0.6127	0.6027	0.5939	0.5720	0.5952	----	0.601	9.61	0.999	0.999	5.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1049	----	0.0687	0.0891	0.1130	0.1203	0.1257	0.1346	----	0.108	9.55	0.996	1.00	21	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1477	1.3473	1.1357	1.2124	1.1490	1.1389	1.1140	1.1832	----	1.18	9.79	0.998	0.999	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1769	1.3246	1.1406	1.2218	1.1935	1.1778	1.1681	1.2271	----	1.20	9.84	0.999	0.999	4.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1204	1.2339	1.0781	1.1812	1.1391	1.1337	1.1326	1.1873	----	1.15	10.01	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.3199	1.3892	1.1938	1.3547	1.3710	1.3611	1.3563	1.4333	1.1374	1.32	10.38	0.999	0.999	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1186	1.3174	1.0623	1.1882	1.1322	1.1334	1.1226	1.1776	----	1.16	11.12	0.999	0.999	6.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.5125	1.8041	1.4795	1.5968	1.5218	1.5435	1.5036	1.5983	----	1.57	11.38	0.998	0.999	6.6	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	1.0103	0.8035	0.8570	1.0255	1.0304	1.0354	1.0129	1.0691	----	0.981	11.27	0.999	0.999	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6767	0.8136	0.6458	0.7135	0.6915	0.7379	0.7283	0.8031	----	0.726	11.55	0.996	0.999	8.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 7.42

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0095

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M87777.D	CAL BNA@50PPM	10/13/21 12:26	2	10M87769.D	CAL BNA@2PPM	10/13/21 09:29
3	10M87771.D	CAL BNA@10PPM	10/13/21 10:13	4	10M87776.D	CAL BNA@20PPM	10/13/21 12:04
5	10M87775.D	CAL BNA@80PPM	10/13/21 11:42	6	10M87774.D	CAL BNA@120PPM	10/13/21 11:20
7	10M87773.D	CAL BNA@160PPM	10/13/21 10:58	8	10M87772.D	CAL BNA@196PPM	10/13/21 10:35
9	10M87770.D	CAL BNA@.5PPM	10/13/21 09:51				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2584	0.2890	0.2480	0.2623	0.2644	0.2723	0.2722	0.2958	----	0.270	11.49	0.996	0.999	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4657	0.5158	0.4283	0.4909	0.4737	0.4910	0.4754	0.5134	----	0.482	11.89	0.998	0.999	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.7304	0.7641	0.6561	0.7397	0.7646	0.7875	0.7794	0.8343	----	0.757	12.14	0.998	0.999	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4281	0.4289	0.3920	0.4351	0.4430	0.4497	0.4386	0.4678	----	0.435	12.24	0.998	0.999	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4820	0.5040	0.4278	0.4949	0.4926	0.5004	0.4788	0.5063	----	0.486	12.76	0.999	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2644	1.5429	1.1968	1.2979	1.2594	1.2820	1.2920	1.3874	----	1.32	12.79	0.997	0.999	8.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.2557	1.4671	1.1997	1.3166	1.2553	1.2919	1.2759	1.3789	----	1.31	12.84	0.997	0.999	6.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	1.0235	1.1733	0.9107	1.0409	1.0695	1.0943	1.0754	1.1575	----	1.07	12.83	0.998	0.999	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.6045	1.7802	1.4283	1.6353	1.7385	1.7918	1.7361	1.8362	----	1.69	13.57	0.998	0.999	7.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0878	1.3389	1.0663	1.1444	1.1906	1.1660	1.1763	1.2172	----	1.17	14.00	0.999	1.00	7.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1382	1.4125	1.1805	1.2256	1.1196	1.1923	1.1360	1.2476	----	1.21	14.04	0.996	0.998	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0641	1.3304	1.0413	1.1379	1.1268	1.1560	1.1273	1.2008	----	1.15	14.37	0.998	0.999	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1365	1.2374	1.0857	1.1759	1.1874	1.2418	1.2012	1.2816	----	1.19	15.76	0.998	0.999	5.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9818	1.0900	0.9164	1.0353	1.0361	1.0712	1.0453	1.1157	----	1.04	15.77	0.998	0.999	6.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9728	1.1494	0.9527	1.0201	0.9999	1.0475	1.0266	1.1065	----	1.03	16.14	0.997	0.999	6.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.42
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0096

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9291	1.2357	1.0186	1.0157	0.9851	1.0209	0.9767	1.0667	1.4455	1.08	2.60	0.997	0.998	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0417	2.1718	1.9339	2.1760	2.2214	2.3178	2.2137	2.3199	----	2.17	3.07	0.998	0.999	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4812	1.6218	1.4617	1.5623	1.5740	1.6171	1.5494	1.6446	----	1.56	3.02	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3863	2.7422	2.4328	2.5908	2.6544	2.7337	2.5942	2.6923	----	2.60	4.61	0.997	0.998	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0224	2.4152	2.1213	2.2826	2.1595	2.0541	1.8145	1.7142	----	2.07	5.44	0.991	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.7045	4.5774	3.9187	4.1852	4.0682	4.0227	3.8135	3.8646	4.7069	4.10	5.53	0.999	0.999	8.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9039	1.1389	0.9243	1.0039	0.9961	0.9896	0.9449	0.9714	----	0.984	5.57	0.999	0.999	7.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.3864	3.0419	2.5385	2.7084	2.5792	2.6173	2.4447	2.3760	2.9714	2.63	5.59	0.997	0.999	9.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.8327	3.3018	2.9622	3.1339	3.1679	3.1757	2.9892	3.0492	----	3.08	5.49	0.998	0.999	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4146	3.9962	3.5402	3.8535	3.7346	3.7018	3.4938	3.7325	----	3.68	5.50	0.998	0.998	5.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.7079	3.2079	2.7681	3.0752	3.0518	3.0259	2.8622	2.9132	----	2.95	5.63	0.999	0.999	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.9009	2.4579	2.0538	2.1485	2.0680	1.9939	1.8715	1.9318	----	2.05	5.67	0.998	0.998	9.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0862	3.8008	3.2142	3.5303	3.4402	3.3586	3.1509	3.2187	----	3.35	5.76	0.998	0.998	7.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5108	1.9364	1.5804	1.6226	1.5484	1.5432	1.5188	1.6926	----	1.62	5.82	0.994	0.997	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4490	1.7139	1.5126	1.5470	1.4714	1.4578	1.4421	1.5670	----	1.52	5.95	0.997	0.998	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8775	0.9661	0.8801	0.9107	0.8804	0.8799	0.8792	0.9561	----	0.904	5.92	0.998	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.0196	1.2423	1.0577	1.0800	0.9873	0.9734	0.9546	1.0495	----	1.05	6.04	0.996	0.997	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1679	1.3384	1.1632	1.2504	1.1711	1.1693	1.1581	1.2681	1.3662	1.23	6.01	0.996	0.998	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7527	2.2158	1.8668	1.8949	1.7072	1.6923	1.6435	1.8018	----	1.82	6.14	0.996	0.997	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5554	0.6777	0.5705	0.5967	0.5603	0.5677	0.5618	0.6204	----	0.589	6.22	0.995	0.998	7.2	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8412	1.0449	0.9172	0.9094	0.8088	0.7916	0.7876	0.8621	0.9967	0.884	6.14	0.998	0.998	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2210	1.3933	1.2285	1.2932	1.2060	1.1940	1.1842	1.2829	1.3540	1.26	6.13	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1548	0.1644	0.1487	0.1569	0.1579	0.1629	0.1572	0.1728	----	0.160	6.26	0.998	0.999	4.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3159	0.3794	0.3191	0.3292	0.3159	0.3159	0.3061	0.3312	----	0.327	6.28	0.997	0.998	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6038	0.7106	0.6214	0.6301	0.6006	0.6043	0.5974	0.6506	----	0.627	6.47	0.996	0.998	6.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1919	0.1721	0.1747	0.1887	0.1980	0.2037	0.1966	0.2124	----	0.192	6.52	0.998	0.999	7.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3399	0.3840	0.3369	0.3526	0.3396	0.3385	0.3340	0.3629	0.3784	0.352	6.55	0.997	0.998	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2151	----	0.1404	0.2033	0.2675	0.2733	0.2797	0.2778	----	0.237	6.62	0.998	0.998	22		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3534	0.4215	0.3647	0.3730	0.3534	0.3543	0.3462	0.3775	----	0.368	6.63	0.997	0.998	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2909	0.2902	0.2827	0.3015	0.2998	0.3062	0.3013	0.3271	0.2852	0.298	6.71	0.997	0.999	4.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3207	0.3695	0.3190	0.3356	0.3332	0.3405	0.3302	0.3626	----	0.339	6.78	0.996	0.998	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9608	1.2495	1.0442	1.0623	0.9946	0.9646	0.9851	1.0351	1.2585	1.06	6.84	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4030	0.4712	0.4083	0.4185	0.4020	0.3964	0.5042	0.3975	0.4662	0.430	6.88	0.988	0.988	9.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1869	0.2330	0.1879	0.1995	0.1965	0.2016	0.1993	0.2200	----	0.203	6.93	0.995	0.998	7.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1013	0.1069	0.1064	0.1062	0.1031	0.1147	0.1139	0.1236	----	0.110	7.17	0.995	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2875	0.2926	0.2878	0.2987	0.2960	0.2970	0.2930	0.3221	----	0.297	7.25	0.996	0.998	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7025	0.8370	0.7128	0.7434	0.7163	0.7272	0.7104	0.7711	----	0.740	7.39	0.997	0.998	6.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6481	0.7943	0.6754	0.6985	0.6650	0.6611	0.6498	0.7069	----	0.687	7.46	0.997	0.998	7.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6739	0.8157	0.6940	0.7209	0.6906	0.6942	0.6802	0.7390	----	0.714	7.46	0.997	0.998	6.5		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8349	1.0169	0.8677	0.8906	0.8627	0.8534	0.8345	0.9114	----	0.884	7.76	0.997	0.998	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6027	0.6906	0.6050	0.6489	0.6371	0.6526	0.6485	0.6934	----	0.647	7.52	0.997	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.895

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3670	0.2912	0.3144	0.3539	0.3912	0.4060	0.4114	0.4390	----	0.372	7.51	0.997	1.00	14	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4217	0.4031	0.4019	0.4359	0.4784	0.4746	0.4708	0.4989	----	0.448	7.60	0.998	0.999	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3878	0.4241	0.4246	0.4400	0.4696	0.4849	0.4882	0.5207	----	0.455	7.64	0.996	0.999	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4069	1.7169	1.4226	1.5172	1.4461	1.4698	1.4455	1.5395	----	1.50	7.68	0.999	0.999	6.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1982	1.4478	1.2382	1.3108	1.2300	1.2489	1.2392	1.3052	----	1.28	7.79	0.998	0.999	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9773	1.2316	1.0144	1.0697	1.0002	1.0113	0.9963	1.0534	----	1.04	8.07	0.998	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9773	1.2316	1.0144	1.0697	1.0002	1.0113	0.9963	1.0534	----	1.04	8.07	0.999	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8536	1.0282	0.8692	0.9247	0.8810	0.8869	0.8871	0.9395	----	0.909	7.85	0.998	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3564	0.3662	0.3573	0.3718	0.3590	0.3583	0.3555	0.3764	----	0.363	7.86	0.998	0.999	2.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4854	0.5090	0.4985	0.5176	0.4956	0.5005	0.4918	0.5142	----	0.502	8.05	0.999	0.999	2.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9149	2.2761	2.0017	2.1031	1.9475	1.9438	1.9195	2.0359	----	2.02	8.15	0.999	0.999	6.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.4199	1.7259	1.4773	1.5425	1.4608	1.4707	1.4648	1.5549	----	1.51	8.02	0.998	0.999	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3281	0.3627	0.3295	0.3530	0.3329	0.3351	0.3355	0.3482	----	0.341	8.07	0.999	1.00	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1926	1.4933	1.2324	1.3064	1.2292	1.2351	1.2351	1.3207	----	1.28	8.30	0.997	0.999	7.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3596	0.3738	0.3592	0.3840	0.3759	0.3686	0.3630	0.3825	----	0.371	8.22	0.999	0.999	2.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1709	----	0.1063	0.1457	0.1914	0.2041	0.2068	0.2218	----	0.178	8.31	0.997	0.999	23	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7664	2.1187	1.8250	1.8970	1.8194	1.8009	1.7685	1.8797	2.2401	1.90	8.46	0.999	0.999	8.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4338	0.3938	0.4218	0.4595	0.4592	0.4721	0.4763	0.5086	----	0.453	8.43	0.997	0.999	7.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2285	0.1307	0.1991	0.2272	0.2411	0.2426	0.2469	0.2643	----	0.223	8.35	0.998	1.00	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3769	0.3902	0.3604	0.3928	0.4086	0.4142	0.4232	0.4481	----	0.402	8.56	0.997	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4233	1.7264	1.4744	1.5400	1.4686	1.4909	1.4697	1.5553	----	1.52	8.78	0.998	0.999	6.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7098	0.8307	0.7129	0.7571	0.7602	0.7691	0.7728	0.8220	----	0.767	8.77	0.998	0.999	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4439	1.7642	1.4819	1.5654	1.4937	1.4977	1.4884	1.5752	----	1.54	8.65	0.998	0.999	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3827	0.3363	0.3767	0.4026	0.4041	0.4019	0.4015	0.4271	----	0.392	8.79	0.998	0.999	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4247	0.4787	0.4160	0.4572	0.4484	0.4546	0.4574	0.4832	----	0.453	9.41	0.998	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1197	----	0.1001	0.1151	0.1302	0.1362	0.1377	0.1475	----	0.127	8.81	0.997	0.999	13	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6085	0.7106	0.6224	0.6675	0.6301	0.6455	0.6402	0.6842	----	0.651	8.88	0.998	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1064	0.0975	0.0989	0.1083	0.1150	0.1220	0.1239	0.1343	----	0.113	9.01	0.995	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6618	0.7196	0.6324	0.6650	0.6614	0.6588	0.6411	0.6770	----	0.665	8.92	0.999	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2132	0.2441	0.2095	0.2266	0.2309	0.2388	0.2416	0.2603	----	0.233	9.26	0.996	0.999	7.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2266	0.2692	0.2241	0.2408	0.2425	0.2560	0.2563	0.2773	----	0.249	9.31	0.994	0.999	7.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3105	0.3525	0.3164	0.3223	0.3049	0.3015	0.3009	0.3212	----	0.316	9.59	0.998	0.999	5.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1465	----	0.1275	0.1444	0.1614	0.1696	0.1709	0.1880	----	0.158	9.51	0.995	0.999	13	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0569	1.3226	1.0839	1.1508	1.0750	1.0811	1.0747	1.1539	----	1.12	9.76	0.999	0.999	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0852	1.3089	1.1317	1.1904	1.1124	1.1218	1.1157	1.1831	----	1.16	9.81	0.998	0.999	6.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9700	1.1316	0.9819	1.0462	1.0058	1.0123	1.0085	1.0757	----	1.03	9.98	0.998	0.999	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2274	1.3361	1.2252	1.3058	1.2685	1.2761	1.2674	1.3350	1.3302	1.29	10.36	0.999	1.00	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1794	1.3372	1.1545	1.2654	1.2279	1.2419	1.2395	1.3159	----	1.25	11.08	0.998	0.999	5.0	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3425	1.5795	1.3532	1.4564	1.3660	1.4120	1.3773	1.4796	----	1.42	11.35	0.997	0.999	5.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.8637	0.5998	0.7949	0.8728	0.8392	0.8118	0.7419	0.7427	----	0.783	11.24	0.995	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6896	0.7610	0.6634	0.7203	0.7117	0.7405	0.7274	0.8094	----	0.728	11.53	0.994	0.998	6.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 6.895

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1101901 0098

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M117280.D	CAL BNA@50PPM	10/19/21 10:23	2	7M117282.D	CAL BNA@2PPM	10/19/21 11:10
3	7M117281.D	CAL BNA@10PPM	10/19/21 10:47	4	7M117287.D	CAL BNA@20PPM	10/19/21 13:07
5	7M117286.D	CAL BNA@80PPM	10/19/21 12:44	6	7M117285.D	CAL BNA@120PPM	10/19/21 12:20
7	7M117284.D	CAL BNA@160PPM	10/19/21 11:57	8	7M117283.D	CAL BNA@196PPM	10/19/21 11:34
9	7M117288.D	CAL BNA@0.5PPM	10/19/21 13:31				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2756	0.3171	0.2635	0.2916	0.2873	0.3095	0.3076	0.3362	----	0.299	11.47	0.995	0.999	7.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4820	0.5019	0.4565	0.5117	0.5037	0.5259	0.5205	0.5631	----	0.508	11.86	0.997	0.999	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.6120	0.6600	0.5883	0.6450	0.6257	0.6534	0.6368	0.6876	----	0.639	12.12	0.997	0.999	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4420	0.3967	0.4032	0.4494	0.4539	0.4863	0.4764	0.5123	----	0.453	12.22	0.997	0.999	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.5102	0.4727	0.4651	0.5274	0.5214	0.5286	0.5205	0.5432	----	0.511	12.75	0.999	1.00	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2223	1.4895	1.2087	1.3304	1.2592	1.3064	1.3113	1.3974	----	1.32	12.77	0.997	0.999	7.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1988	1.4765	1.1922	1.3003	1.2121	1.2746	1.2456	1.3214	----	1.28	12.81	0.998	0.999	7.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8419	0.9000	0.8254	0.8867	0.8458	0.8765	0.8485	0.8998	----	0.866	12.82	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.3490	1.3506	1.2859	1.4289	1.3837	1.4394	1.4057	1.5206	----	1.40	13.59	0.998	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1129	1.3328	1.1065	1.1876	1.1656	1.2585	1.2462	1.3528	----	1.22	14.01	0.996	0.999	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0653	1.2673	1.0045	1.1518	1.1620	1.1882	1.0676	1.1696	----	1.13	14.04	0.996	0.996	7.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1083	1.2291	1.0599	1.1667	1.1452	1.1973	1.1826	1.3015	----	1.17	14.37	0.995	0.998	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1874	1.3040	1.1362	1.2352	1.2431	1.3064	1.2992	1.4177	----	1.27	15.78	0.996	0.999	6.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0061	1.0903	0.9675	1.0481	1.0473	1.1124	1.1097	1.2139	----	1.07	15.81	0.995	0.999	7.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9984	1.1454	0.9675	1.0393	1.0259	1.0676	1.0556	1.1438	----	1.06	16.17	0.996	0.999	6.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.895
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M87991.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/28/2021 9:25:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.69	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.72	49.13	50	**		1.021	1.003	1.74	
Pyridine	1	0		3.20	44.19	50	**		2.098	1.854	11.61	
N-Nitrosodimethylamine	1	0		3.13	50.84	50	**		1.565	1.592	1.68	
2-Fluorophenol	1	0	S	4.68	49.77	50	**		2.478	2.467	0.46	
Benzaldehyde	1	0		5.49	48.68	50	20	0.01	2.140	2.084	2.65	
Aniline	1	0		5.59	49.28	50	**		4.075	4.016	1.43	
Pentachloroethane	1	0		5.63	50.12	50	**	0.05	0.926	0.928	0.23	
bis(2-Chloroethyl)ether	1	0		5.64	49.24	50	20	0.7	2.761	2.718	1.52	
Phenol-d5	1	0	S	5.55	50.35	50	**		3.031	3.052	0.70	
Phenol	1	0		5.56	49.46	50	20	0.8	3.692	3.652	1.09	
2-Chlorophenol	1	0		5.69	50.91	50	20	0.8	2.824	2.876	1.82	
N-Decane	1	0		5.72	49.09	50	**	0.05	3.342	3.282	1.81	
1,3-Dichlorobenzene	1	0		5.82	49.47	50	**		3.160	3.127	1.06	
1,4-Dichlorobenzene-d4	1	0	I	5.86	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.88	46.66	50	20		1.675	1.563	6.67	
1,2-Dichlorobenzene	1	0		6.00	47.15	50	**		1.560	1.471	5.70	
Benzyl alcohol	1	0		5.98	48.92	50	**		0.940	0.920	2.16	
bis(2-chloroisopropyl)ether	1	0		6.09	47.50	50	20	0.01	2.440	2.318	5.00	
2-Methylphenol	1	0		6.07	47.66	50	20	0.7	1.333	1.271	4.67	
Acetophenone	1	0		6.19	48.55	50	20	0.01	1.826	1.773	2.90	
Hexachloroethane	1	0		6.28	47.67	50	20	0.3	0.596	0.568	4.67	
N-Nitroso-di-n-propylamine	1	0		6.19	50.44	50	20	0.5	0.931	0.940	0.89	
3&4-Methylphenol	1	0		6.19	48.60	50	20		1.342	1.305	2.81	
Naphthalene-d8	1	0	I	6.87	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.31	25.13	25	**		0.156	0.157	0.51	
Nitrobenzene	1	0		6.33	48.63	50	20	0.2	0.342	0.333	2.73	
Isophorone	1	0		6.52	49.04	50	20	0.4	0.636	0.624	1.92	
2-Nitrophenol	1	0		6.58	49.55	50	20	0.1	0.185	0.184	0.90	
2,4-Dimethylphenol	1	0		6.60	48.61	50	20	0.2	0.353	0.343	2.78	
Benzoic Acid	1	0		6.67	20.35	50	**		0.183	0.066	59.30	
bis(2-Chloroethoxy)methane	1	0		6.68	47.01	50	20	0.3	0.397	0.373	5.99	
2,4-Dichlorophenol	1	0		6.76	49.92	50	20	0.2	0.274	0.273	0.16	
1,2,4-Trichlorobenzene	1	0		6.83	47.36	50	**		0.294	0.278	5.28	
Naphthalene	1	0		6.88	46.71	50	20	0.7	1.075	1.004	6.59	
4-Chloroaniline	1	0		6.92	47.62	50	20	0.01	0.422	0.402	4.77	
Hexachlorobutadiene	1	0		6.97	48.47	50	20	0.01	0.142	0.137	3.06	
Caprolactam	1	0		7.20	50.51	50	20	0.01	0.102	0.103	1.03	
4-Chloro-3-methylphenol	1	0		7.29	48.78	50	20	0.2	0.293	0.286	2.43	
2-Methylnaphthalene	1	0		7.42	48.25	50	**	0.4	0.728	0.703	3.49	
1-Methylnaphthalene	1	0		7.50	48.63	50	**	0.4	0.681	0.662	2.73	
Methylnaphthalenes	1	0		7.42	96.37	50	**			1.353	92.74	
1,1'-Biphenyl	1	0		7.79	48.85	50	20	0.01	0.835	0.816	2.29	
Acenaphthene-d10	1	0	I	8.30	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.55	46.31	50	20	0.01	0.528	0.489	7.38	
Hexachlorocyclopentadiene	1	0		7.54	42.49	50	20	0.05	0.238	0.199	15.02	
2,4,6-Trichlorophenol	1	0		7.64	48.43	50	20	0.2	0.363	0.352	3.14	
2,4,5-Trichlorophenol	1	0		7.68	47.63	50	20	0.2	0.395	0.377	4.73	
2-Fluorobiphenyl	1	0	S	7.71	23.49	25	**		1.475	1.386	6.04	
2-Chloronaphthalene	1	0		7.82	46.59	50	20	0.8	1.288	1.200	6.82	
1,4-Dimethylnaphthalene	1	0		8.10	47.39	50	**		1.056	1.001	5.22	
Dimethylnaphthalenes	1	0		8.10	47.39	50	20			1.001	5.22	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M87991.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/28/2021 9:25:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.88	47.39	50	**		0.899	0.852	5.22	
2-Nitroaniline	1	0		7.90	49.65	50	20	0.01	0.450	0.447	0.70	
Coumarin	1	0		8.08	48.56		**		0.510			
Acenaphthylene	1	0		8.17	47.12	50	20	0.9	2.116	1.994	5.77	
Dimethylphthalate	1	0		8.04	50.86	50	20	0.01	1.529	1.370	1.73	
2,6-Dinitrotoluene	1	0		8.10	50.78	50	20	0.2	0.311	0.316	1.56	
Acenaphthene	1	0		8.33	47.64	50	20	0.9	1.293	1.232	4.72	
3-Nitroaniline	1	0		8.25	49.63	50	20	0.01	0.396	0.393	0.74	
2,4-Dinitrophenol	1	0		8.34	36.39	50	20	0.2	0.153	0.106	27.21	C1
Dibenzofuran	1	0		8.48	46.48	50	20	0.8	1.871	1.740	7.04	
2,4-Dinitrotoluene	1	0		8.46	49.96	50	20	0.2	0.429	0.429	0.08	
4-Nitrophenol	1	0		8.38	44.30	50	20	0.01	0.260	0.231	11.39	
2,3,4,6-Tetrachlorophenol	1	0		8.59	47.76	50	20	0.01	0.290	0.277	4.49	
Fluorene	1	0		8.80	47.42	50	20	0.9	1.486	1.409	5.16	
4-Chlorophenyl-phenylether	1	0		8.79	47.94	50	20	0.4	0.632	0.606	4.13	
Diethylphthalate	1	0		8.67	48.67	50	20	0.01	1.442	1.404	2.65	
4-Nitroaniline	1	0		8.82	49.22	50	20	0.01	0.417	0.411	1.55	
Atrazine	1	0		9.43	50.01	50	20	0.01	0.352	0.352	0.01	
Phenanthrene-d10	1	0	I	9.76	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.84	44.10	50	20	0.01	0.120	0.102	11.79	
n-Nitrosodiphenylamine	1	0		8.90	47.72	50	20	0.01	0.721	0.688	4.55	
2,4,6-Tribromophenol	1	0	S	9.03	47.38	50	**		0.086	0.082	5.25	
1,2-Diphenylhydrazine	1	0		8.94	45.27	50	**		0.861	0.780	9.47	
4-Bromophenyl-phenylether	1	0		9.28	47.90	50	20	0.1	0.186	0.178	4.20	
Hexachlorobenzene	1	0		9.35	47.40	50	20	0.1	0.192	0.182	5.20	
N-Octadecane	1	0		9.60	49.14	50	**	0.05	0.601	0.591	1.71	
Pentachlorophenol	1	0		9.55	45.56	50	20	0.05	0.108	0.095	8.87	
Phenanthrene	1	0		9.78	47.42	50	20	0.7	1.179	1.118	5.17	
Anthracene	1	0		9.84	47.97	50	20	0.7	1.204	1.155	4.06	
Carbazole	1	0		10.00	47.97	50	20	0.01	1.151	1.104	4.05	
Di-n-butylphthalate	1	0		10.38	50.93	50	20	0.01	1.324	1.349	1.85	
Fluoranthene	1	0		11.11	48.51	50	20	0.6	1.157	1.122	2.97	
Chrysene-d12	1	0	I	12.81	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.37	48.08	50	20	0.6	1.570	1.510	3.83	
Benzidine	1	0		11.26	44.81	50	**		0.981	0.879	10.37	
Terphenyl-d14	1	0	S	11.55	23.72	25	**		0.726	0.689	5.10	
4,4'-DDE	1	0		11.48	48.27		**		0.270			
4,4'-DDD	1	0		11.89	49.73		**		0.482			
Butylbenzylphthalate	1	0		12.13	50.44	50	20	0.01	0.757	0.764	0.88	
4,4'-DDT	1	0		12.24	48.70		**		0.435			
3,3'-Dichlorobenzidine	1	0		12.76	48.24	50	20	0.01	0.486	0.469	3.52	
Benzo[a]anthracene	1	0		12.79	46.76	50	20	0.8	1.315	1.230	6.48	
Chrysene	1	0		12.83	46.42	50	20	0.7	1.305	1.212	7.17	
bis(2-Ethylhexyl)phthalate	1	0		12.82	49.42	50	20	0.01	1.068	1.056	1.17	
Perylene-d12	1	0	I	14.43	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	51.54	50	20	0.01	1.694	1.746	3.07	
Benzo[b]fluoranthene	1	0		14.00	46.44	50	20	0.7	1.173	1.090	7.12	
Benzo[k]fluoranthene	1	0		14.03	45.28	50	20	0.7	1.207	1.093	9.45	
Benzo[a]pyrene	1	0		14.36	47.34	50	20	0.7	1.148	1.087	5.32	
Indeno[1,2,3-cd]pyrene	1	0		15.75	47.02	50	20	0.5	1.193	1.122	5.97	
Dibenzo[a,h]anthracene	1	0		15.77	46.59	50	20	0.4	1.037	0.966	6.82	
Benzo[g,h,i]perylene	1	0		16.14	46.46	50	20	0.5	1.034	0.961	7.07	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M87991.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/28/2021 9:25:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.056	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.702	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117453.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/28/2021 9:34:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.57	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	44.83	50	**		1.077	0.966	10.34	
Pyridine	1	0		3.07	43.55	50	**		2.175	1.894	12.90	
N-Nitrosodimethylamine	1	0		3.02	48.15	50	**		1.564	1.506	3.71	
2-Fluorophenol	1	0	S	4.62	46.70	50	**		2.603	2.432	6.59	
Benzaldehyde	1	0		5.44	47.19	50	20	0.01	2.073	1.957	5.61	
Aniline	1	0		5.54	44.21	50	**		4.096	3.621	11.59	
Pentachloroethane	1	0		5.58	46.39	50	**	0.05	0.984	0.913	7.21	
bis(2-Chloroethyl)ether	1	0		5.60	45.09	50	20	0.7	2.629	2.371	9.82	
Phenol-d5	1	0	S	5.50	45.75	50	**		3.077	2.815	8.51	
Phenol	1	0		5.51	45.97	50	20	0.8	3.683	3.387	8.05	
2-Chlorophenol	1	0		5.63	46.58	50	20	0.8	2.952	2.750	6.84	
N-Decane	1	0		5.67	43.91	50	**	0.05	2.053	1.803	12.19	
1,3-Dichlorobenzene	1	0		5.76	47.52	50	**		3.350	3.184	4.97	
1,4-Dichlorobenzene-d4	1	0	I	5.81	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.82	46.95	50	20		1.619	1.520	6.10	
1,2-Dichlorobenzene	1	0		5.95	47.82	50	**		1.520	1.454	4.35	
Benzyl alcohol	1	0		5.92	46.87	50	**		0.904	0.847	6.27	
bis(2-chloroisopropyl)ether	1	0		6.04	43.89	50	20	0.01	1.046	0.918	12.22	
2-Methylphenol	1	0		6.01	46.95	50	20	0.7	1.228	1.153	6.09	
Acetophenone	1	0		6.14	47.80	50	20	0.01	1.822	1.742	4.41	
Hexachloroethane	1	0		6.22	47.08	50	20	0.3	0.589	0.554	5.85	
N-Nitroso-di-n-propylamine	1	0		6.14	45.43	50	20	0.5	0.884	0.804	9.13	
3&4-Methylphenol	1	0		6.13	48.01	50	20		1.262	1.212	3.99	
Naphthalene-d8	1	0	I	6.81	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.26	24.35	25	**		0.160	0.155	2.61	
Nitrobenzene	1	0		6.28	47.22	50	20	0.2	0.327	0.308	5.56	
Isophorone	1	0		6.46	46.85	50	20	0.4	0.627	0.588	6.29	
2-Nitrophenol	1	0		6.52	48.29	50	20	0.1	0.192	0.186	3.42	
2,4-Dimethylphenol	1	0		6.54	47.87	50	20	0.2	0.352	0.337	4.25	
Benzoic Acid	1	0		6.61	33.97	50	**		0.237	0.155	32.06	
bis(2-Chloroethoxy)methane	1	0		6.62	46.79	50	20	0.3	0.368	0.344	6.43	
2,4-Dichlorophenol	1	0		6.70	49.01	50	20	0.2	0.298	0.292	1.98	
1,2,4-Trichlorobenzene	1	0		6.76	48.07	50	**		0.339	0.326	3.86	
Naphthalene	1	0		6.83	46.46	50	20	0.7	1.062	0.987	7.07	
4-Chloroaniline	1	0		6.86	45.58	50	20	0.01	0.430	0.392	8.83	
Hexachlorobutadiene	1	0		6.92	47.77	50	20	0.01	0.203	0.194	4.46	
Caprolactam	1	0		7.15	43.90	50	20	0.01	0.110	0.096	12.19	
4-Chloro-3-methylphenol	1	0		7.23	48.61	50	20	0.2	0.297	0.289	2.78	
2-Methylnaphthalene	1	0		7.36	47.66	50	**	0.4	0.740	0.705	4.69	
1-Methylnaphthalene	1	0		7.45	48.03	50	**	0.4	0.687	0.660	3.94	
Methylnaphthalenes	1	0		7.36	95.63	50	**			1.365	91.26	
1,1'-Biphenyl	1	0		7.74	48.15	50	20	0.01	0.884	0.851	3.70	
Acenaphthene-d10	1	0	I	8.25	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.49	47.83	50	20	0.01	0.647	0.619	4.34	
Hexachlorocyclopentadiene	1	0		7.48	50.12	50	20	0.05	0.372	0.373	0.25	
2,4,6-Trichlorophenol	1	0		7.58	47.37	50	20	0.2	0.448	0.425	5.27	
2,4,5-Trichlorophenol	1	0		7.62	48.38	50	20	0.2	0.455	0.440	3.24	
2-Fluorobiphenyl	1	0	S	7.65	23.58	25	**		1.496	1.411	5.66	
2-Chloronaphthalene	1	0		7.76	47.63	50	20	0.8	1.277	1.217	4.75	
1,4-Dimethylnaphthalene	1	0		8.04	46.99	50	**		1.044	0.982	6.01	
Dimethylnaphthalenes	1	0		8.04	46.99	50	20			0.982	6.01	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117453.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/28/2021 9:34:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.82	47.82	50	**		0.909	0.869	4.36	
2-Nitroaniline	1	0		7.84	47.78	50	20	0.01	0.363	0.347	4.44	
Coumarin	1	0		8.03	48.54		**		0.502			
Acenaphthylene	1	0		8.12	47.82	50	20	0.9	2.018	1.930	4.36	
Dimethylphthalate	1	0		7.99	47.10	50	20	0.01	1.515	1.427	5.80	
2,6-Dinitrotoluene	1	0		8.05	47.89	50	20	0.2	0.341	0.326	4.21	
Acenaphthene	1	0		8.27	46.60	50	20	0.9	1.281	1.194	6.80	
3-Nitroaniline	1	0		8.20	48.92	50	20	0.01	0.371	0.363	2.15	
2,4-Dinitrophenol	1	0		8.29	50.53	50	20	0.2	0.178	0.180	1.07	
Dibenzofuran	1	0		8.43	46.43	50	20	0.8	1.902	1.766	7.13	
2,4-Dinitrotoluene	1	0		8.40	49.49	50	20	0.2	0.453	0.449	1.01	
4-Nitrophenol	1	0		8.32	49.64	50	20	0.01	0.223	0.225	0.72	
2,3,4,6-Tetrachlorophenol	1	0		8.53	47.54	50	20	0.01	0.402	0.382	4.93	
Fluorene	1	0		8.75	48.01	50	20	0.9	1.519	1.458	3.97	
4-Chlorophenyl-phenylether	1	0		8.74	47.92	50	20	0.4	0.767	0.735	4.16	
Diethylphthalate	1	0		8.62	47.45	50	20	0.01	1.539	1.460	5.10	
4-Nitroaniline	1	0		8.76	48.05	50	20	0.01	0.392	0.376	3.89	
Atrazine	1	0		9.39	48.07	50	20	0.01	0.453	0.435	3.86	
Phenanthrene-d10	1	0	I	9.71	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.79	49.60	50	20	0.01	0.127	0.126	0.80	
n-Nitrosodiphenylamine	1	0		8.86	47.28	50	20	0.01	0.651	0.616	5.44	
2,4,6-Tribromophenol	1	0	S	8.99	47.21	50	**		0.113	0.107	5.59	
1,2-Diphenylhydrazine	1	0		8.90	43.54	50	**		0.665	0.579	12.92	
4-Bromophenyl-phenylether	1	0		9.23	47.43	50	20	0.1	0.233	0.221	5.14	
Hexachlorobenzene	1	0		9.30	46.21	50	20	0.1	0.249	0.230	7.58	
N-Octadecane	1	0		9.57	43.74	50	**	0.05	0.316	0.277	12.51	
Pentachlorophenol	1	0		9.50	46.32	50	20	0.05	0.158	0.147	7.36	
Phenanthrene	1	0		9.74	47.04	50	20	0.7	1.125	1.058	5.92	
Anthracene	1	0		9.80	47.07	50	20	0.7	1.156	1.088	5.87	
Carbazole	1	0		9.96	47.32	50	20	0.01	1.029	0.974	5.36	
Di-n-butylphthalate	1	0		10.35	47.30	50	20	0.01	1.286	1.216	5.40	
Fluoranthene	1	0		11.07	47.87	50	20	0.6	1.245	1.192	4.26	
Chrysene-d12	1	0	I	12.78	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.34	46.62	50	20	0.6	1.421	1.325	6.76	
Benzidine	1	0		11.24	46.80	50	**		0.783	0.733	6.40	
Terphenyl-d14	1	0	S	11.52	23.15	25	**		0.728	0.674	7.39	
4,4'-DDE	1	0		11.46	45.64		**		0.299			
4,4'-DDD	1	0		11.86	47.49		**		0.508			
Butylbenzylphthalate	1	0		12.12	45.74	50	20	0.01	0.639	0.584	8.51	
4,4'-DDT	1	0		12.22	49.59		**		0.453			
3,3'-Dichlorobenzidine	1	0		12.74	48.03	50	20	0.01	0.511	0.491	3.93	
Benzo[a]anthracene	1	0		12.76	46.72	50	20	0.8	1.316	1.229	6.55	
Chrysene	1	0		12.81	46.54	50	20	0.7	1.278	1.189	6.92	
bis(2-Ethylhexyl)phthalate	1	0		12.81	46.07	50	20	0.01	0.866	0.798	7.87	
Perylene-d12	1	0	I	14.41	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	47.00	50	20	0.01	1.396	1.312	6.00	
Benzo[b]fluoranthene	1	0		13.99	48.51	50	20	0.7	1.220	1.184	2.98	
Benzo[k]fluoranthene	1	0		14.02	49.16	50	20	0.7	1.135	1.116	1.68	
Benzo[a]pyrene	1	0		14.34	47.70	50	20	0.7	1.174	1.120	4.60	
Indeno[1,2,3-cd]pyrene	1	0		15.75	46.44	50	20	0.5	1.266	1.176	7.12	
Dibenzo[a,h]anthracene	1	0		15.78	46.07	50	20	0.4	1.074	0.990	7.86	
Benzo[g,h,i]perylene	1	0		16.14	46.08	50	20	0.5	1.055	0.973	7.85	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117453.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/28/2021 9:34:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.714	0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.044	0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109152.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/28/2021 10:42:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.80	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.84	44.51	50	**		1.056	0.940	10.99	
Pyridine	1	0		3.30	38.83	50	**		2.205	1.712	22.34	
N-Nitrosodimethylamine	1	0		3.25	42.11	50	**		1.606	1.352	15.77	
2-Fluorophenol	1	0	S	4.78	43.20	50	**		2.491	2.152	13.60	
Benzaldehyde	1	0		5.60	41.53	50	20	0.01	2.121	1.762	16.93	
Aniline	1	0		5.69	42.72	50	**		4.032	3.445	14.57	
Pentachloroethane	1	0		5.73	44.13	50	**	0.05	0.898	0.793	11.74	
bis(2-Chloroethyl)ether	1	0		5.74	44.40	50	20	0.7	2.620	2.327	11.20	
Phenol-d5	1	0	S	5.65	44.35	50	**		2.973	2.638	11.29	
Phenol	1	0		5.66	43.48	50	20	0.8	3.647	3.171	13.05	
2-Chlorophenol	1	0		5.79	44.34	50	20	0.8	2.763	2.450	11.32	
N-Decane	1	0		5.82	42.80	50	**	0.05	2.428	2.078	14.41	
1,3-Dichlorobenzene	1	0		5.92	42.84	50	**		3.097	2.654	14.33	
1,4-Dichlorobenzene-d4	1	0	I	5.97	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.98	47.22	50	20		1.628	1.538	5.55	
1,2-Dichlorobenzene	1	0		6.11	47.07	50	**		1.546	1.456	5.86	
Benzyl alcohol	1	0		6.08	43.05	50	**		0.923	0.795	13.91	
bis(2-chloroisopropyl)ether	1	0		6.19	51.39	50	20	0.01	1.547	1.589	2.77	
2-Methylphenol	1	0		6.17	55.04	50	20	0.7	1.266	1.394	10.08	
Acetophenone	1	0		6.30	50.84	50	20	0.01	1.804	1.834	1.69	
Hexachloroethane	1	0		6.38	47.48	50	20	0.3	0.574	0.545	5.04	
N-Nitroso-di-n-propylamine	1	0		6.29	49.59	50	20	0.5	0.886	0.879	0.82	
3&4-Methylphenol	1	0		6.29	53.36	50	20		1.294	1.381	6.71	
Naphthalene-d8	1	0	I	6.98	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.42	23.43	25	**		0.156	0.146	6.29	
Nitrobenzene	1	0		6.43	44.99	50	20	0.2	0.340	0.306	10.01	
Isophorone	1	0		6.61	47.69	50	20	0.4	0.637	0.607	4.61	
2-Nitrophenol	1	0		6.68	50.34	50	20	0.1	0.183	0.184	0.67	
2,4-Dimethylphenol	1	0		6.70	48.62	50	20	0.2	0.330	0.321	2.75	
Benzoic Acid	1	0		6.75	44.10	50	**		0.189	0.153	11.81	
bis(2-Chloroethoxy)methane	1	0		6.78	47.89	50	20	0.3	0.387	0.371	4.22	
2,4-Dichlorophenol	1	0		6.87	48.23	50	20	0.2	0.284	0.274	3.54	
1,2,4-Trichlorobenzene	1	0		6.93	44.33	50	**		0.334	0.296	11.35	
Naphthalene	1	0		7.00	47.25	50	20	0.7	1.109	1.048	5.51	
4-Chloroaniline	1	0		7.03	64.74	50	20	0.01	0.416	0.539	29.49	C1
Hexachlorobutadiene	1	0		7.08	40.64	50	20	0.01	0.200	0.163	18.72	
Caprolactam	1	0		7.31	51.81	50	20	0.01	0.098	0.101	3.61	
4-Chloro-3-methylphenol	1	0		7.40	48.17	50	20	0.2	0.277	0.267	3.66	
2-Methylnaphthalene	1	0		7.54	48.07	50	**	0.4	0.711	0.684	3.86	
1-Methylnaphthalene	1	0		7.62	48.40	50	**	0.4	0.667	0.645	3.20	
Methylnaphthalenes	1	0		7.54	96.36	50	**			1.324	92.72	
1,1'-Biphenyl	1	0		7.91	46.72	50	20	0.01	0.841	0.786	6.57	
Acenaphthene-d10	1	0	I	8.43	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.67	43.51	50	20	0.01	0.696	0.605	12.99	
Hexachlorocyclopentadiene	1	0		7.65	34.26	50	20	0.05	0.397	0.260	31.49	C1
2,4,6-Trichlorophenol	1	0		7.76	45.41	50	20	0.2	0.426	0.387	9.17	
2,4,5-Trichlorophenol	1	0		7.80	47.51	50	20	0.2	0.446	0.424	4.99	
2-Fluorobiphenyl	1	0	S	7.82	23.02	25	**		1.513	1.393	7.91	
2-Chloronaphthalene	1	0		7.94	46.36	50	20	0.8	1.311	1.216	7.27	
1,4-Dimethylnaphthalene	1	0		8.22	48.78	50	**		1.037	1.012	2.45	
Dimethylnaphthalenes	1	0		8.22	48.78	50	20			1.012	2.45	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109152.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/28/2021 10:42:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.00	46.91	50	**		0.923	0.866	6.17	
2-Nitroaniline	1	0		8.02	48.88	50	20	0.01	0.387	0.378	2.25	
Coumarin	1	0		8.21	49.14		**		0.508			
Acenaphthylene	1	0		8.31	48.97	50	20	0.9	1.990	1.949	2.05	
Dimethylphthalate	1	0		8.16	47.27	50	20	0.01	1.441	1.362	5.46	
2,6-Dinitrotoluene	1	0		8.22	52.02	50	20	0.2	0.317	0.330	4.04	
Acenaphthene	1	0		8.46	48.10	50	20	0.9	1.276	1.227	3.80	
3-Nitroaniline	1	0		8.38	50.62	50	20	0.01	0.366	0.371	1.24	
2,4-Dinitrophenol	1	0		8.47	49.63	50	20	0.2	0.162	0.150	0.73	
Dibenzofuran	1	0		8.62	45.82	50	20	0.8	1.895	1.737	8.35	
2,4-Dinitrotoluene	1	0		8.59	50.45	50	20	0.2	0.413	0.415	0.90	
4-Nitrophenol	1	0		8.51	48.78	50	20	0.01	0.222	0.221	2.44	
2,3,4,6-Tetrachlorophenol	1	0		8.72	42.35	50	20	0.01	0.408	0.345	15.31	
Fluorene	1	0		8.94	47.60	50	20	0.9	1.469	1.398	4.81	
4-Chlorophenyl-phenylether	1	0		8.93	44.03	50	20	0.4	0.772	0.679	11.94	
Diethylphthalate	1	0		8.80	48.15	50	20	0.01	1.369	1.318	3.69	
4-Nitroaniline	1	0		8.95	52.21	50	20	0.01	0.385	0.398	4.43	
Atrazine	1	0		9.58	46.29	50	20	0.01	0.399	0.370	7.41	
Phenanthrene-d10	1	0	I	9.91	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.98	49.11	50	20	0.01	0.120	0.114	1.79	
n-Nitrosodiphenylamine	1	0		9.04	48.66	50	20	0.01	0.645	0.628	2.67	
2,4,6-Tribromophenol	1	0	S	9.18	38.53	50	**		0.140	0.101	22.94	
1,2-Diphenylhydrazine	1	0		9.08	53.91	50	**		0.684	0.738	7.82	
4-Bromophenyl-phenylether	1	0		9.42	40.65	50	20	0.1	0.258	0.210	18.71	
Hexachlorobenzene	1	0		9.49	36.90	50	20	0.1	0.314	0.232	26.20	C1
N-Octadecane	1	0		9.74	53.93	50	**	0.05	0.353	0.380	7.85	
Pentachlorophenol	1	0		9.70	37.30	50	20	0.05	0.181	0.123	25.40	C1
Phenanthrene	1	0		9.94	47.42	50	20	0.7	1.118	1.060	5.16	
Anthracene	1	0		10.00	48.97	50	20	0.7	1.119	1.097	2.05	
Carbazole	1	0		10.16	50.17	50	20	0.01	1.021	1.024	0.34	
Di-n-butylphthalate	1	0		10.53	54.34	50	20	0.01	1.068	1.203	8.68	
Fluoranthene	1	0		11.28	48.13	50	20	0.6	1.210	1.165	3.75	
Chrysene-d12	1	0	I	12.98	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.55	52.82	50	20	0.6	1.187	1.254	5.63	
Benzidine	1	0		11.44	52.08	50	**		0.671	0.718	4.16	
Terphenyl-d14	1	0	S	11.72	23.06	25	**		0.701	0.647	7.77	
4,4'-DDE	1	0		11.65	44.96		**		0.259			
4,4'-DDD	1	0		12.05	51.15		**		0.427			
Butylbenzylphthalate	1	0		12.31	61.59	50	20	0.01	0.433	0.543	23.17	C1
4,4'-DDT	1	0		12.41	50.52		**		0.391			
3,3'-Dichlorobenzidine	1	0		12.94	50.19	50	20	0.01	0.477	0.492	0.38	
Benzo[a]anthracene	1	0		12.97	49.50	50	20	0.8	1.206	1.194	1.00	
Chrysene	1	0		13.02	49.58	50	20	0.7	1.201	1.191	0.85	
bis(2-Ethylhexyl)phthalate	1	0		13.00	62.35	50	20	0.01	0.618	0.789	24.70	C1
Perylene-d12	1	0	I	14.64	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.75	68.16	50	20	0.01	0.826	1.201	36.31	C1
Benzo[b]fluoranthene	1	0		14.19	50.89	50	20	0.7	1.100	1.119	1.77	
Benzo[k]fluoranthene	1	0		14.23	48.37	50	20	0.7	1.135	1.097	3.27	
Benzo[a]pyrene	1	0		14.58	49.32	50	20	0.7	1.070	1.055	1.37	
Indeno[1,2,3-cd]pyrene	1	0		16.05	45.97	50	20	0.5	1.273	1.170	8.07	
Dibenzo[a,h]anthracene	1	0		16.07	45.07	50	20	0.4	1.083	0.976	9.87	
Benzo[g,h,i]perylene	1	0		16.46	45.66	50	20	0.5	1.059	0.967	8.67	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109152.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/28/2021 10:42:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.687	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.037	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117479.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/29/2021 9:25:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.58	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.61	46.05	50	**		1.077	0.992	7.90	
Pyridine	1	0		3.07	47.88	50	**		2.175	2.082	4.25	
N-Nitrosodimethylamine	1	0		3.03	50.24	50	**		1.564	1.572	0.49	
2-Fluorophenol	1	0	S	4.62	51.88	50	**		2.603	2.701	3.77	
Benzaldehyde	1	0		5.44	53.49	50	20	0.01	2.073	2.218	6.97	
Aniline	1	0		5.54	50.32	50	**		4.096	4.122	0.65	
Pentachloroethane	1	0		5.58	52.33	50	**	0.05	0.984	1.030	4.65	
bis(2-Chloroethyl)ether	1	0		5.60	51.06	50	20	0.7	2.629	2.685	2.12	
Phenol-d5	1	0	S	5.50	52.35	50	**		3.077	3.221	4.69	
Phenol	1	0		5.51	51.46	50	20	0.8	3.683	3.791	2.91	
2-Chlorophenol	1	0		5.63	52.41	50	20	0.8	2.952	3.094	4.83	
N-Decane	1	0		5.67	50.40	50	**	0.05	2.053	2.070	0.79	
1,3-Dichlorobenzene	1	0		5.77	53.00	50	**		3.350	3.551	5.99	
1,4-Dichlorobenzene-d4	1	0	I	5.81	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.82	48.11	50	20		1.619	1.558	3.78	
1,2-Dichlorobenzene	1	0		5.95	48.76	50	**		1.520	1.482	2.48	
Benzyl alcohol	1	0		5.92	47.88	50	**		0.904	0.866	4.24	
bis(2-chloroisopropyl)ether	1	0		6.04	46.42	50	20	0.01	1.046	0.971	7.17	
2-Methylphenol	1	0		6.01	48.36	50	20	0.7	1.228	1.188	3.29	
Acetophenone	1	0		6.14	48.27	50	20	0.01	1.822	1.759	3.46	
Hexachloroethane	1	0		6.22	47.63	50	20	0.3	0.589	0.561	4.73	
N-Nitroso-di-n-propylamine	1	0		6.14	46.67	50	20	0.5	0.884	0.826	6.66	
3&4-Methylphenol	1	0		6.14	49.24	50	20		1.262	1.243	1.53	
Naphthalene-d8	1	0	I	6.82	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.26	24.71	25	**		0.160	0.158	1.15	
Nitrobenzene	1	0		6.28	47.58	50	20	0.2	0.327	0.311	4.85	
Isophorone	1	0		6.46	47.66	50	20	0.4	0.627	0.598	4.67	
2-Nitrophenol	1	0		6.52	50.29	50	20	0.1	0.192	0.193	0.57	
2,4-Dimethylphenol	1	0		6.55	48.38	50	20	0.2	0.352	0.341	3.24	
Benzoic Acid	1	0		6.61	27.01	50	**		0.237	0.122	45.98	
bis(2-Chloroethoxy)methane	1	0		6.62	46.72	50	20	0.3	0.368	0.344	6.56	
2,4-Dichlorophenol	1	0		6.71	49.97	50	20	0.2	0.298	0.298	0.07	
1,2,4-Trichlorobenzene	1	0		6.78	48.71	50	**		0.339	0.330	2.59	
Naphthalene	1	0		6.84	47.19	50	20	0.7	1.062	1.002	5.61	
4-Chloroaniline	1	0		6.88	46.72	50	20	0.01	0.430	0.402	6.56	
Hexachlorobutadiene	1	0		6.92	49.17	50	20	0.01	0.203	0.200	1.67	
Caprolactam	1	0		7.16	44.76	50	20	0.01	0.110	0.098	10.48	
4-Chloro-3-methylphenol	1	0		7.23	49.04	50	20	0.2	0.297	0.291	1.93	
2-Methylnaphthalene	1	0		7.38	48.31	50	**	0.4	0.740	0.715	3.38	
1-Methylnaphthalene	1	0		7.45	48.12	50	**	0.4	0.687	0.662	3.76	
Methylnaphthalenes	1	0		7.45	46.37	50	**			0.662	7.26	
1,1'-Biphenyl	1	0		7.75	49.19	50	20	0.01	0.884	0.870	1.61	
Acenaphthene-d10	1	0	I	8.26	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.50	48.65	50	20	0.01	0.647	0.630	2.70	
Hexachlorocyclopentadiene	1	0		7.49	49.25	50	20	0.05	0.372	0.366	1.49	
2,4,6-Trichlorophenol	1	0		7.59	50.51	50	20	0.2	0.448	0.453	1.02	
2,4,5-Trichlorophenol	1	0		7.63	46.01	50	20	0.2	0.455	0.419	7.98	
2-Fluorobiphenyl	1	0	S	7.66	24.33	25	**		1.496	1.455	2.70	
2-Chloronaphthalene	1	0		7.78	47.93	50	20	0.8	1.277	1.224	4.14	
1,4-Dimethylnaphthalene	1	0		8.06	48.12	50	**		1.044	1.005	3.76	
Dimethylnaphthalenes	1	0		8.06	48.12	50	20			1.005	3.76	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117479.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/29/2021 9:25:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.83	48.15	50	**		0.909	0.875	3.70	
2-Nitroaniline	1	0		7.85	48.37	50	20	0.01	0.363	0.351	3.25	
Coumarin	1	0		8.04	49.45		**		0.502			
Acenaphthylene	1	0		8.13	48.83	50	20	0.9	2.018	1.970	2.35	
Dimethylphthalate	1	0		8.00	47.77	50	20	0.01	1.515	1.447	4.47	
2,6-Dinitrotoluene	1	0		8.06	49.00	50	20	0.2	0.341	0.334	1.99	
Acenaphthene	1	0		8.29	47.21	50	20	0.9	1.281	1.209	5.59	
3-Nitroaniline	1	0		8.21	48.28	50	20	0.01	0.371	0.358	3.44	
2,4-Dinitrophenol	1	0		8.30	50.51	50	20	0.2	0.178	0.180	1.01	
Dibenzofuran	1	0		8.44	47.27	50	20	0.8	1.902	1.798	5.47	
2,4-Dinitrotoluene	1	0		8.42	49.81	50	20	0.2	0.453	0.451	0.37	
4-Nitrophenol	1	0		8.33	49.54	50	20	0.01	0.223	0.225	0.93	
2,3,4,6-Tetrachlorophenol	1	0		8.54	47.85	50	20	0.01	0.402	0.385	4.31	
Fluorene	1	0		8.77	48.26	50	20	0.9	1.519	1.466	3.49	
4-Chlorophenyl-phenylether	1	0		8.76	48.30	50	20	0.4	0.767	0.741	3.40	
Diethylphthalate	1	0		8.63	47.92	50	20	0.01	1.539	1.475	4.16	
4-Nitroaniline	1	0		8.78	49.06	50	20	0.01	0.392	0.384	1.88	
Atrazine	1	0		9.40	48.47	50	20	0.01	0.453	0.439	3.06	
Phenanthrene-d10	1	0	I	9.72	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.80	50.05	50	20	0.01	0.127	0 127	0.10	
n-Nitrosodiphenylamine	1	0		8.87	47.40	50	20	0.01	0.651	0.617	5.20	
2,4,6-Tribromophenol	1	0	S	9.00	49.23	50	**		0.113	0.112	1.53	
1,2-Diphenylhydrazine	1	0		8.91	47.60	50	**		0.665	0.633	4.81	
4-Bromophenyl-phenylether	1	0		9.24	47.86	50	20	0.1	0.233	0.223	4.27	
Hexachlorobenzene	1	0		9.31	47.35	50	20	0.1	0.249	0.236	5.30	
N-Octadecane	1	0		9.58	44.84	50	**	0.05	0.316	0.284	10.33	
Pentachlorophenol	1	0		9.51	46.20	50	20	0.05	0.158	0.146	7.59	
Phenanthrene	1	0		9.75	47.10	50	20	0.7	1.125	1.060	5.80	
Anthracene	1	0		9.80	47.06	50	20	0.7	1.156	1.088	5.89	
Carbazole	1	0		9.97	47.84	50	20	0.01	1.029	0.985	4.32	
Di-n-butylphthalate	1	0		10.35	47.40	50	20	0.01	1.286	1.219	5.21	
Fluoranthene	1	0		11.08	48.52	50	20	0.6	1.245	1.208	2.96	
Chrysene-d12	1	0	I	12.78	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.34	47.40	50	20	0.6	1.421	1.347	5.20	
Benzidine	1	0		11.24	50.58	50	**		0.783	0.792	1.15	
Terphenyl-d14	1	0	S	11.53	24.35	25	**		0.728	0.709	2.59	
4,4'-DDE	1	0		11.46	46.99		**		0.299			
4,4'-DDD	1	0		11.86	48.72		**		0.508			
Butylbenzylphthalate	1	0		12.12	46.41	50	20	0.01	0.639	0.593	7.18	
4,4'-DDT	1	0		12.22	49.91		**		0.453			
3,3'-Dichlorobenzidine	1	0		12.75	51.06	50	20	0.01	0.511	0.522	2.12	
Benzo[a]anthracene	1	0		12.77	47.45	50	20	0.8	1.316	1.249	5.09	
Chrysene	1	0		12.82	46.23	50	20	0.7	1.278	1.181	7.55	
bis(2-Ethylhexyl)phthalate	1	0		12.82	46.54	50	20	0.01	0.866	0.806	6.93	
Perylene-d12	1	0	I	14.45	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.59	48.12	50	20	0.01	1.396	1.343	3.77	
Benzo[b]fluoranthene	1	0		14.02	47.30	50	20	0.7	1.220	1.154	5.40	
Benzo[k]fluoranthene	1	0		14.05	52.01	50	20	0.7	1.135	1.180	4.02	
Benzo[a]pyrene	1	0		14.39	47.89	50	20	0.7	1.174	1.124	4.22	
Indeno[1,2,3-cd]pyrene	1	0		15.80	45.74	50	20	0.5	1.266	1.158	8.51	
Dibenzo[a,h]anthracene	1	0		15.82	46.52	50	20	0.4	1.074	1.000	6.96	
Benzo[g,h,i]perylene	1	0		16.19	46.07	50	20	0.5	1.055	0.973	7.86	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M117479.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/29/2021 9:25:00 **Method:** EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.714	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.044	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 9M108717.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 12:21

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
Eval File Area Limit:	17714-70856		35041-140164		137126-548506		70144-280574		139070-556280		150900-603598		183194-732774	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.92-8.92		9.41-10.41		12.48-13.48		14.12-15.12	

Data File	Sample#													
9M108709.D	CAL BNA@10PPM	34700	2.80	65516	5.97	265228	6.98	135831	8.42	265051	9.91	277168	12.97	315415	14.62
9M108710.D	CAL BNA@2PPM	33605	2.80	64419	5.97	257112	6.98	131833	8.43	257795	9.91	257309	12.98	296713	14.62
9M108711.D	CAL BNA@196PPM	33719	2.80	61337	5.97	241868	6.98	122453	8.43	237938	9.91	260650	12.98	294177	14.63
9M108712.D	CAL BNA@160PPM	35996	2.80	69124	5.97	273936	6.98	136523	8.43	268756	9.91	289705	12.98	328313	14.63
9M108713.D	CAL BNA@120PPM	36366	2.80	70288	5.97	277888	6.98	139013	8.43	273562	9.91	299304	12.98	341975	14.62
9M108714.D	CAL BNA@80PPM	34771	2.80	68655	5.97	273996	6.98	139209	8.42	273683	9.91	297476	12.98	340499	14.62
9M108715.D	CAL BNA@20PPM	33643	2.80	67821	5.97	265945	6.98	135364	8.42	268679	9.91	287171	12.97	330844	14.62
9M108716.D	CAL BNA@0.5PPM	34071	2.80	69631	5.97	276011	6.98	142206	8.42	284240	9.91	292603	12.97	342572	14.62
9M108717.D	CAL BNA@50PPM	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
9M108718.D	BNA@50PPM	38344	2.80	80633	5.97	318838	6.98	168953	8.42	330314	9.91	379481	12.98	430917	14.62
9M108719.D	ICV BNA@50PPM	33582	2.80	68739	5.97	271416	6.98	142007	8.42	278344	9.91	312757	12.98	362944	14.62
9M108720.D	SMB95218	28739	2.78	61936	5.97	235735	6.98	126987	8.42	248724	9.91	264781	12.97	293547	14.62
9M108721.D	AD26497-002	30440	2.78	60069	5.97	236959	6.98	119605	8.42	237191	9.91	240972	12.97	275125	14.62
9M108722.D	AD26497-003	31011	2.78	60757	5.97	238028	6.98	120813	8.42	241358	9.91	251407	12.97	289358	14.62
9M108723.D	AD26497-004	29769	2.78	58389	5.97	232738	6.97	119075	8.42	237707	9.91	237789	12.97	269610	14.62
9M108724.D	AD26497-005	26560	2.78	52023	5.97	216264	6.98	111540	8.42	217865	9.91	227780	12.97	251103	14.62
9M108725.D	AD26383-001(30X)	39983	2.80	77364	5.97	308859	6.98	156298	8.42	307008	9.91	306057	12.97	353188	14.62
9M108726.D	OMB95201	41826	2.79	84166	5.97	336183	6.98	174841	8.42	342000	9.91	346831	12.97	402557	14.62
9M108727.D	SMB95218(MS)	32825	2.78	59968	5.97	242111	6.98	127473	8.42	245667	9.91	265171	12.98	300545	14.62
9M108728.D	SMB95225	36430	2.78	62408	5.97	254419	6.97	127919	8.42	249794	9.91	242886	12.97	278357	14.62
9M108729.D	SMB95225(MS)	38021	2.79	64793	5.97	256611	6.98	129476	8.42	248758	9.91	259162	12.98	291042	14.62
9M108730.D	AD26503-007	36325	2.79	71178	5.97	289628	6.98	150146	8.42	292209	9.91	297971	12.97	342955	14.62
9M108731.D	AD26503-002	37755	2.78	72354	5.97	292831	6.98	148836	8.42	289385	9.91	284839	12.97	324736	14.62
9M108732.D	AD26503-015	34657	2.78	65824	5.97	264334	6.98	134547	8.42	262632	9.91	260119	12.97	297499	14.62
9M108733.D	AD26503-009	38291	2.78	70890	5.97	284272	6.98	143538	8.42	279901	9.91	275502	12.97	317033	14.62
9M108734.D	AD26503-005	36106	2.78	67535	5.97	272491	6.98	137941	8.42	268779	9.91	262991	12.97	300659	14.62
9M108735.D	AD26503-001	35619	2.78	67941	5.97	277837	6.98	139921	8.42	269025	9.91	269641	12.97	304637	14.62
9M108736.D	AD26404-001	36637	2.78	70203	5.97	280570	6.98	144648	8.42	268627	9.91	272205	12.97	311237	14.62
9M108737.D	AD26404-001(MS)	36101	2.78	68988	5.97	275510	6.98	138704	8.42	261239	9.91	267946	12.98	306233	14.62
9M108738.D	AD26404-001(MSD)	35416	2.78	67918	5.97	272473	6.98	137290	8.42	258003	9.91	264275	12.98	297844	14.62

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101901 0112

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M87777.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 12:26

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	36983	2.71	71338	5.87	291004	6.87	141047	8.30	250605	9.76	193514	12.81	203724	14.43
Eval File Area Limit:	18492-73966		35669-142676		145502-582008		70524-282094		125302-501210		96757-387028		101862-407448	
Eval File Rt Limit:	2.21-3.21		5.37-6.37		6.37-7.37		7.8-8.8		9.26-10.26		12.31-13.31		13.93-14.93	

Data File	Sample#													
10M87769.D	CAL BNA@2PPM	34390	2.70	63895	5.87	266312	6.87	128606	8.30	225458	9.76	168679	12.80	171460	14.43
10M87770.D	CAL BNA@.5PPM	34326	2.70	67311	5.87	280352	6.87	138637	8.30	244345	9.76	184970	12.80	189510	14.43
10M87771.D	CAL BNA@10PPM	33499	2.70	65743	5.87	271035	6.87	133065	8.30	237150	9.76	183258	12.80	186436	14.43
10M87772.D	CAL BNA@196PPM	33521	2.70	62680	5.87	259379	6.88	130548	8.31	231011	9.76	175479	12.82	187949	14.43
10M87773.D	CAL BNA@160PPM	35891	2.70	69562	5.87	281624	6.88	139398	8.31	246621	9.76	188511	12.82	198057	14.43
10M87774.D	CAL BNA@120PPM	35379	2.70	71915	5.87	291302	6.87	145236	8.30	254581	9.76	192326	12.81	198100	14.43
10M87775.D	CAL BNA@80PPM	36971	2.70	71194	5.87	298668	6.87	144756	8.30	256528	9.76	198097	12.81	203123	14.43
10M87776.D	CAL BNA@20PPM	35224	2.71	69661	5.87	286268	6.87	138994	8.30	244008	9.76	190067	12.81	192689	14.43
10M87777.D	CAL BNA@50PPM	36983	2.71	71338	5.87	291004	6.87	141047	8.30	250605	9.76	193514	12.81	203724	14.43
10M87778.D	BNA@50PPM	34733	2.70	70988	5.87	286601	6.87	139362	8.30	245120	9.76	186930	12.81	191185	14.43
10M87779.D	ICV BNA@50PPM	34906	2.70	70334	5.87	285011	6.87	139908	8.30	249923	9.76	193143	12.81	198945	14.43

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101901 0113

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M117280.D Method: EPA 8270E

Analysis Date/Time: 10/19/21 10:23

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	60254	2.57	123037	5.81	491892	6.83	263335	8.27	529297	9.73	472934	12.78	512896	14.44
Eval File Area Limit:	30127-120508		61518-246074		245946-983784		131668-526670		264648-1058594		236467-945868		256448-1025792	
Eval File Rt Limit:	2.07-3.07		5.31-6.31		6.33-7.33		7.77-8.77		9.23-10.23		12.28-13.28		13.94-14.94	

Data File	Sample#													
7M117280.D	CAL BNA@50PPM	60254	2.57	123037	5.81	491892	6.83	263335	8.27	529297	9.73	472934	12.78	512896	14.44
7M117281.D	CAL BNA@10PPM	62006	2.57	130798	5.81	543001	6.82	297090	8.25	595429	9.71	537386	12.78	571949	14.43
7M117282.D	CAL BNA@2PPM	55787	2.57	118033	5.81	476316	6.82	262419	8.26	524072	9.72	467997	12.78	495555	14.44
7M117283.D	CAL BNA@196PPM	57027	2.58	109820	5.81	440432	6.82	239432	8.26	481889	9.73	428097	12.79	455846	14.46
7M117284.D	CAL BNA@160PPM	61182	2.57	127441	5.81	507058	6.82	266924	8.26	537008	9.73	483199	12.79	521915	14.45
7M117285.D	CAL BNA@120PPM	62099	2.58	136182	5.81	533682	6.82	283361	8.25	567742	9.72	499339	12.79	541661	14.44
7M117286.D	CAL BNA@80PPM	56885	2.56	127847	5.81	504854	6.82	268314	8.26	544310	9.72	496062	12.79	537018	14.44
7M117287.D	CAL BNA@20PPM	55039	2.57	122181	5.81	502949	6.82	264448	8.25	527411	9.71	466767	12.78	502145	14.42
7M117288.D	CAL BNA@0.5PPM	63753	2.57	130340	5.81	535207	6.81	298380	8.25	595853	9.71	526986	12.78	565868	14.45
7M117289.D	ICV BNA@50PPM	55000	2.57	118429	5.81	469609	6.82	250759	8.25	511052	9.71	471732	12.78	504559	14.43

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101901 0114

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M87991.D Method: EPA 8270E

Analysis Date/Time: 10/28/21 09:25

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	30715	2.69	63177	5.86	259811	6.87	131134	8.30	233791	9.76	180033	12.81	180850	14.43
Eval File Area Limit:	15358-61430		31588-126354		129906-519622		65567-262268		116896-467582		90016-360066		90425-361700	
Eval File Rt Limit:	2.19-3.19		5.36-6.36		6.37-7.37		7.8-8.8		9.26-10.26		12.31-13.31		13.93-14.93	

Data File	Sample#													
10M87992.D	WMB95406	26116	2.69	50724	5.86	206868	6.87	103846	8.30	188912	9.76	142255	12.80	141296	14.42
10M87993.D	AD26826-001	28236	2.69	55905	5.86	227297	6.87	111891	8.30	198590	9.76	149063	12.80	148292	14.42
10M87994.D	AD26826-002	29513	2.68	55886	5.86	232857	6.87	112287	8.30	201803	9.76	148896	12.80	150927	14.42
10M87995.D	AD26826-003	26224	2.69	50353	5.86	206833	6.87	99390	8.30	182995	9.76	131958	12.80	132147	14.42
10M87996.D	AD26826-004	28412	2.69	55053	5.86	226410	6.87	111933	8.30	203167	9.76	147452	12.80	146922	14.42
10M87997.D	AD26826-005	27052	2.69	52144	5.86	212637	6.87	102616	8.30	184834	9.76	134139	12.80	134718	14.42
10M87998.D	AD26826-006	25561	2.69	49914	5.86	200282	6.87	97735	8.30	173647	9.76	128693	12.80	128376	14.42
10M87999.D	AD26826-007	27862	2.69	53143	5.86	221167	6.87	107039	8.30	193594	9.75	141382	12.80	140278	14.42
10M88000.D	AD26826-008	26560	2.69	52201	5.86	214053	6.87	103381	8.30	186930	9.76	136430	12.80	134617	14.42
10M88001.D	AD26826-009	28135	2.69	53237	5.86	217192	6.87	106644	8.30	191223	9.75	138171	12.80	136082	14.42
10M88002.D	AD26826-010	26235	2.69	51161	5.86	208703	6.87	101058	8.30	179395	9.75	133310	12.80	133484	14.42
10M88003.D	AD26826-007(MS)	28612	2.69	57252	5.86	230983	6.87	112820	8.30	196212	9.76	148145	12.81	149345	14.43
10M88004.D	AD26826-007(MSD)	27246	2.69	54800	5.86	223014	6.87	108592	8.30	191221	9.76	144138	12.81	143964	14.43
10M88005.D	SMB95410	30581	2.66	55710	5.86	228276	6.87	110511	8.30	199169	9.76	150041	12.80	148441	14.42
10M88006.D	SMB95410(MS)	31339	2.66	58863	5.86	237328	6.87	115395	8.30	206118	9.76	157968	12.80	155199	14.42

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101901 0115

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M117453.D Method: EPA 8270E

Analysis Date/Time: 10/28/21 09:34

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	63470	2.57	132247	5.81	527152	6.81	284560	8.25	580826	9.71	528607	12.78	551704	14.41
Eval File Area Limit:	31735-126940		66124-264494		263576-1054304		142280-569120		290413-1161652		264304-1057214		275852-1103408	
Eval File Rt Limit:	2.07-3.07		5.31-6.31		6.31-7.31		7.75-8.75		9.21-10.21		12.28-13.28		13.91-14.91	

Data File	Sample#														
7M117454.D	WMB95406(MS)	62074	2.57	139947	5.81	543780	6.82	288042	8.25	585350	9.72	520434	12.78	541170	14.43
7M117455.D	WMB95406	47992	2.57	106310	5.81	415955	6.81	227974	8.24	455967	9.71	398064	12.77	427585	14.41
7M117456.D	AD26819-018	65305	2.57	133304	5.81	520010	6.81	280186	8.25	555800	9.71	473274	12.77	498057	14.41
7M117457.D	AD26826-011	50376	2.57	108022	5.81	417888	6.82	219355	8.25	431276	9.71	374696	12.77	400882	14.41
7M117458.D	AD26826-012	61075	2.57	128285	5.81	502074	6.81	267321	8.25	536644	9.71	470968	12.77	503092	14.41
7M117459.D	AD26826-013	58725	2.58	120301	5.81	469978	6.81	251101	8.25	510693	9.71	443936	12.77	475990	14.41
7M117460.D	AD26866-003	59222	2.57	120683	5.81	469660	6.82	254226	8.25	498433	9.71	442080	12.78	468844	14.43
7M117461.D	AD26866-004	58906	2.58	119271	5.81	465318	6.83	251666	8.27	508329	9.73	442286	12.78	479538	14.42
7M117462.D	AD26866-007	59319	2.58	121159	5.81	473019	6.82	254071	8.25	506229	9.71	437012	12.77	471905	14.43
7M117463.D	AD26866-008	57240	2.57	116811	5.81	458482	6.82	247913	8.25	491604	9.71	423385	12.78	453551	14.43
7M117464.D	AD26866-009	83051	2.58	115908	5.81	450204	6.82	243016	8.25	476902	9.71	414241	12.77	446731	14.42
7M117465.D	AD26866-010	62758	2.57	129630	5.81	509441	6.82	276584	8.26	550524	9.72	474281	12.78	501677	14.44
7M117466.D	AD26864-001	48324	2.58	106165	5.82	386967	6.83	101115	8.23	366625	9.79	342123	12.80	377977	14.42
7M117467.D	AD26805-002(R)	52711	2.58	129661	5.81	490272	6.82	254684	8.25	482160	9.71	441932	12.78	475759	14.41
7M117468.D	AD26864-001(10X)	66836	2.57	150417	5.81	527341	6.84	298897	8.28	541534	9.74	497161	12.78	579633	14.43
7M117469.D	AD26856-002	58995	2.56	134785	5.81	481416	6.83	249029	8.27	478651	9.73	424517	12.79	440554	14.46
7M117470.D	AD26744-001	46091	2.56	120899	5.81	463749	6.81	235430	8.25	429302	9.71	335125	12.77	339993	14.40
7M117471.D	AD26744-002	56446	2.57	149916	5.81	577074	6.81	290131	8.24	535587	9.71	426416	12.78	424341	14.41
7M117472.D	AD26744-003	51329	2.56	136387	5.81	531855	6.81	276353	8.24	510750	9.71	386583	12.78	387583	14.41
7M117473.D	AD26731-001	50975	2.56	124388	5.81	471054	6.82	247762	8.26	438633	9.71	398201	12.77	379109	14.40
7M117474.D	AD26731-003	46637	2.56	123240	5.81	475936	6.81	248378	8.24	471215	9.71	375075	12.77	367083	14.40
7M117475.D	AD26744-004	54499	2.57	142137	5.81	550963	6.81	277003	8.24	523569	9.71	422579	12.78	428114	14.41
7M117476.D	AD26744-005	55673	2.56	148510	5.81	571702	6.81	294701	8.24	546220	9.71	434266	12.78	436163	14.41
7M117477.D	AD26731-002	44192	2.56	147182	5.82	568067	6.83	225123	8.31	478171	9.73	447801	12.78	436454	14.40

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101901 0116

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109152.D Method: EPA 8270E

Analysis Date/Time: 10/28/21 10:42

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	28729	2.80	51005	5.97	227764	6.98	113581	8.43	215225	9.91	208996	12.98	227907	14.64
Eval File Area Limit:	14364-57458		25502-102010		113882-455528		56790-227162		107612-430450		104498-417992		113954-455814	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.93-8.93		9.41-10.41		12.48-13.48		14.14-15.14	

Data File	Sample#													
9M109153.D	AD26698-007(5X)	31356	2.80	54886	5.97	241540	6.98	120655	8.43	223122	9.92	205149	12.99	217468	14.65
9M109154.D	AD26650-007(10X)	28978	2.81	56441	5.97	229214	6.98	113838	8.42	210141	9.91	190878	12.98	203965	14.64
9M109155.D	AD26698-004(10X)	29981	2.80	56425	5.97	229436	6.98	113575	8.42	211622	9.91	167907	12.98	199629	14.64
9M109156.D	AD26709-001(20X)	30542	2.80	54399	5.97	221569	6.98	108798	8.42	201293	9.91	194426	12.99	210875	14.64
9M109157.D	AD26709-002(20X)	29592	2.80	51261	5.97	213217	6.98	111938	8.42	203490	9.92	191819	13.00	196961	14.65
9M109158.D	AD26709-001(60X)	30727	2.81	58460	5.97	235024	6.98	117770	8.44	216196	9.92	191917	12.99	192164	14.66
9M109159.D	AD26709-002(60X)	28937	2.81	51708	5.97	218524	6.98	107058	8.43	209282	9.91	187379	12.99	197001	14.64
9M109160.D	AD26664-001	29431	2.78	49651	5.97	202921	6.98	99624	8.43	186067	9.91	164089	12.98	174192	14.65
9M109161.D	AD26663-001	27912	2.78	51716	5.97	212480	6.98	102889	8.42	194793	9.91	170713	12.98	182319	14.64
9M109162.D	AD26657-001	29604	2.79	56818	5.97	226978	6.98	111261	8.42	206353	9.91	181596	12.98	170913	14.64
9M109163.D	SMB95410	26106	2.78	42154	5.97	177961	6.98	95344	8.42	176014	9.91	155450	12.98	166960	14.64
9M109164.D	AD26709-002(200X)	28385	2.80	52483	5.97	216106	6.98	107167	8.42	199775	9.91	182522	12.98	192973	14.64
9M109165.D	OMB95419	33255	2.80	58851	5.97	252221	6.98	124828	8.43	230989	9.91	200482	12.98	214965	14.64
9M109166.D	OMB95419(MS)	26152	2.80	49657	5.97	199011	6.98	96719	8.42	181666	9.91	167169	12.98	157724	14.64
9M109167.D	AD26897-001(5X)	29509	2.80	55344	5.97	228324	6.98	115132	8.42	199796	9.91	190449	12.98	199273	14.64
9M109168.D	AD26940-001(5X)	28195	2.80	53963	5.97	220739	6.98	112506	8.42	214985	9.92	165312	12.98	188955	14.64
9M109169.D	AD26870-001	26152	2.78	49756	5.97	203454	6.98	99920	8.42	186174	9.91	165429	12.98	172710	14.64
9M109170.D	AD26841-006	25773	2.78	49192	5.97	197836	6.98	96022	8.42	178043	9.91	159142	12.98	170813	14.64
9M109171.D	AD26841-004	25962	2.78	47771	5.97	193989	6.98	94774	8.42	175656	9.91	152546	12.98	165917	14.64
9M109172.D	AD26842-002	25765	2.78	48370	5.97	197226	6.98	95295	8.42	178341	9.91	152266	12.98	165605	14.64
9M109173.D	AD26842-004	26572	2.78	50108	5.97	204222	6.98	96455	8.42	182193	9.91	156442	12.98	170297	14.64
9M109174.D	AD26842-006	31463	2.78	60357	5.97	244038	6.98	119681	8.42	220232	9.91	185651	12.98	202717	14.64
9M109175.D	AD26856-001(3X)	30568	2.80	57618	5.97	236854	6.98	121424	8.43	216674	9.92	183321	12.98	201320	14.64
9M109176.D	AD26856-001(3X)(MS)	30588	2.80	57088	5.97	231625	6.98	117645	8.43	210323	9.92	181190	12.98	192784	14.64
9M109177.D	AD26856-001(3X)(MS	29853	2.80	58178	5.97	231611	6.98	117805	8.43	211427	9.91	181214	12.98	189828	14.64
9M109178.D	AD26841-002	32895	2.79	62641	5.97	255052	6.98	124190	8.42	229013	9.91	196121	12.98	205129	14.64
9M109179.D	AD26940-001(5X)(MS)	29470	2.80	57778	5.97	232790	6.98	119915	8.43	224734	9.92	181360	12.98	190064	14.64
9M109180.D	AD26940-001(5X)(MS	29830	2.80	57634	5.97	233571	6.98	118328	8.43	223704	9.92	179235	12.98	189210	14.64
9M109181.D	AD26941-001(5X)	30221	2.80	57608	5.97	229770	6.98	112852	8.43	217375	9.92	179844	12.98	188999	14.64

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1101901 0117

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M117479.D Method: EPA 8270E

Analysis Date/Time: 10/29/21 09:25

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	57400	2.58	131766	5.81	529657	6.82	288827	8.26	597062	9.72	535265	12.78	553029	14.45
Eval File Area Limit:	28700-114800		65883-263532		264828-1059314		144414-577654		298531-1194124		267632-1070530		276514-1106058	
Eval File Rt Limit:	2.08-3.08		5.31-6.31		6.32-7.32		7.76-8.76		9.22-10.22		12.28-13.28		13.95-14.95	

Data File	Sample#													
7M117480.D	SMB95425(MS)	51216	2.57	109665	5.81	425972	6.82	233214	8.26	466640	9.73	408688	12.78	424965	14.44
7M117481.D	SMB95425	45697	2.57	104508	5.81	401530	6.82	230311	8.25	459778	9.71	417790	12.78	444627	14.43
7M117482.D	WMB95414	52073	2.58	118520	5.81	473506	6.82	270858	8.25	541367	9.71	471887	12.78	513430	14.47
7M117483.D	AD26832-001	47955	2.58	106904	5.81	424031	6.83	237717	8.27	471458	9.73	413160	12.78	436964	14.43
7M117484.D	AD26832-002	61942	2.58	133604	5.81	538646	6.82	288277	8.26	563443	9.72	467448	12.78	483653	14.41
7M117485.D	SMB95410	47885	2.56	117644	5.81	469215	6.82	250128	8.25	493405	9.72	404284	12.78	424845	14.44
7M117486.D	AD26832-003	50138	2.58	115396	5.81	460465	6.82	249985	8.25	485217	9.71	431244	12.78	469210	14.43
7M117487.D	AD26832-004	51292	2.58	115757	5.81	462684	6.82	254782	8.25	486191	9.71	434723	12.77	466407	14.43
7M117488.D	AD26832-005	44478	2.57	100041	5.81	400492	6.82	218765	8.25	425139	9.72	364870	12.78	396254	14.43
7M117489.D	AD26832-006	55968	2.58	123674	5.81	497410	6.82	268784	8.25	533957	9.71	467691	12.78	509191	14.43
7M117490.D	AD26832-007	48259	2.58	109654	5.81	434803	6.82	238564	8.25	469722	9.71	407923	12.78	435710	14.43
7M117491.D	AD26845-001	48143	2.58	105776	5.81	418629	6.82	233124	8.25	441991	9.72	382324	12.78	407631	14.44
7M117492.D	AD26845-002	49062	2.58	109506	5.81	432218	6.82	235605	8.25	461022	9.72	400682	12.77	427588	14.42
7M117493.D	AD26845-003	46995	2.58	104555	5.81	415106	6.82	227236	8.25	445524	9.71	382246	12.78	404377	14.43
7M117494.D	AD26845-004	50206	2.58	108745	5.81	432437	6.82	238258	8.25	462579	9.71	407636	12.77	430220	14.41
7M117495.D	AD26845-005	49849	2.58	112283	5.81	444397	6.82	241443	8.25	474728	9.71	406618	12.77	431472	14.41
7M117496.D	AD26731-002(5X)	59408	2.58	133668	5.81	513281	6.82	261234	8.26	508172	9.72	506812	12.77	542566	14.40
7M117497.D	SMB95427	51055	2.56	111037	5.81	436488	6.82	240703	8.25	468473	9.71	410472	12.77	433909	14.41
7M117498.D	AD26846-002	48386	2.56	111066	5.81	423316	6.82	220260	8.25	412396	9.71	327775	12.77	342103	14.41
7M117499.D	AD26846-004	50376	2.56	132879	5.81	509338	6.81	261539	8.24	488597	9.71	374073	12.78	388618	14.41
7M117500.D	AD26846-006	48088	2.56	132118	5.81	511287	6.81	266981	8.25	488589	9.71	370632	12.78	388439	14.43
7M117501.D	AD26844-002	42196	2.57	115990	5.81	443496	6.81	230767	8.24	420351	9.71	315088	12.78	330974	14.41
7M117502.D	AD26844-006	48656	2.57	132633	5.81	501565	6.81	261927	8.24	477057	9.71	355217	12.78	374321	14.41
7M117503.D	AD26843-006	43254	2.56	117118	5.81	453758	6.81	237210	8.25	427970	9.71	313872	12.78	333854	14.41
7M117504.D	SMB95411(MS)	42019	2.56	115454	5.81	442260	6.82	233063	8.25	436704	9.72	308263	12.78	307963	14.41
7M117505.D	SMB95411	38617	2.56	103892	5.81	407421	6.81	213474	8.25	400627	9.71	292313	12.78	281907	14.41
7M117506.D	AD26682-005	44947	2.57	127115	5.81	497722	6.81	264425	8.25	495648	9.71	375791	12.78	364898	14.41
7M117507.D	AD26682-003	45745	2.57	125613	5.81	485641	6.81	251217	8.25	471620	9.71	348805	12.78	347204	14.41

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

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Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26731-001
Client Id: SB-002SS1(16-18)
Data File: 7G56050.D
Analysis Date: 10/29/21 14:24
Date Rec/Extracted: 10/19/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**69**	**880**				

Worksheet #: 615206 *Total Target Concentration* 880 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56050.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 14:24
Operator : ABM/AH
Sample : AD26731-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:02:40 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

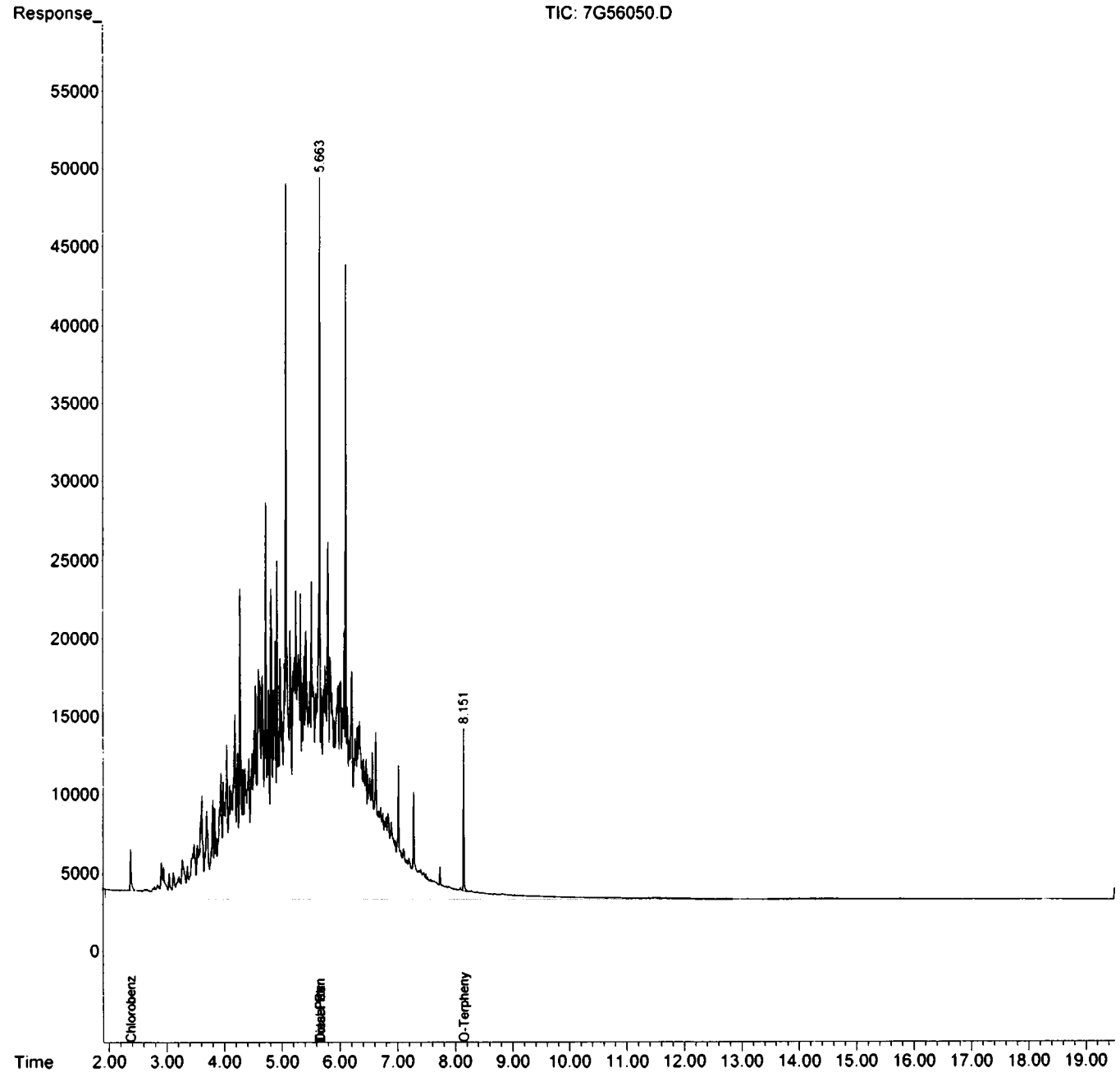
	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.376	32038	9.573		
23)	O-Terphenyl	8.152	79923	13.017		
24)d	Diesel Range Organics(T	5.663f	21691440	4066.956		m
25)t	Total Petroleum Hydroca	5.663	22432972	4302.824		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56050.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 14:24
Operator : ABM/AH
Sample : AD26731-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:02:40 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26731-002(3X)
Client Id: SB002SS2(18-20)
Data File: 7G56053.D
Analysis Date: 10/29/21 15:52
Date Rec/Extracted: 10/19/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 3
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**230**	**2000**				

Worksheet #: 615206 *Total Target Concentration* 2000 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56053.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:52
Operator : ABM/AH
Sample : AD26731-002(3X)
Misc : S,TPH:3
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:16:36 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

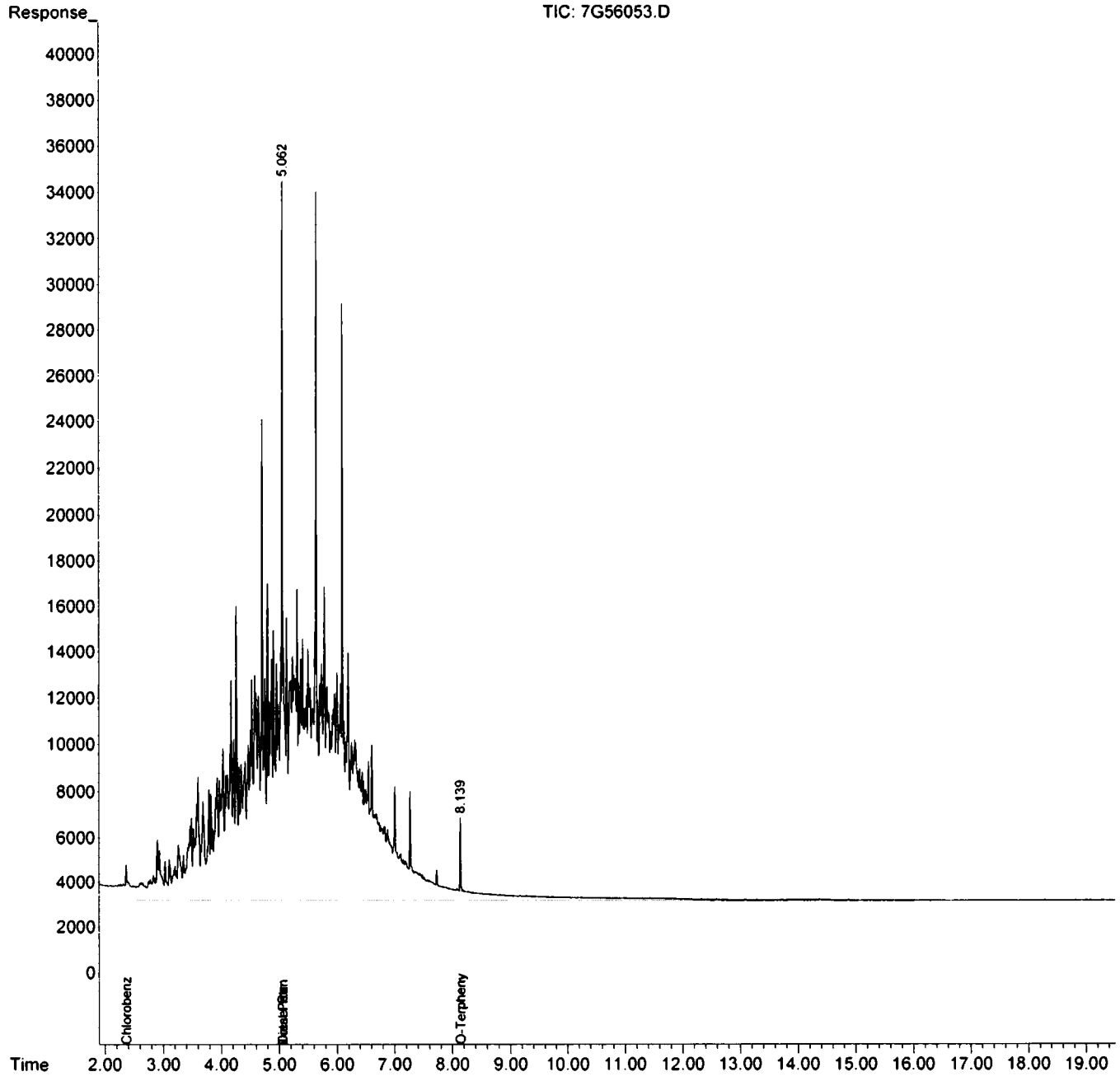
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.367	9730	2.907		m
23)	O-Terphenyl	8.139	27767	4.522		
24)d	Diesel Range Organics(T	5.062	14904651	2794.492		m
25)t	Total Petroleum Hydroca	5.062	15596914	2991.613		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56053.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:52
Operator : ABM/AH
Sample : AD26731-002(3X)
Misc : S,TPH:3
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:16:36 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26731-003
Client Id: SB-001SS(4-6)
Data File: 7G56052.D
Analysis Date: 10/29/21 15:22
Date Rec/Extracted: 10/19/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	65	U				

Worksheet #: 615206 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56052.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:22
Operator : ABM/AH
Sample : AD26731-003
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:02:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

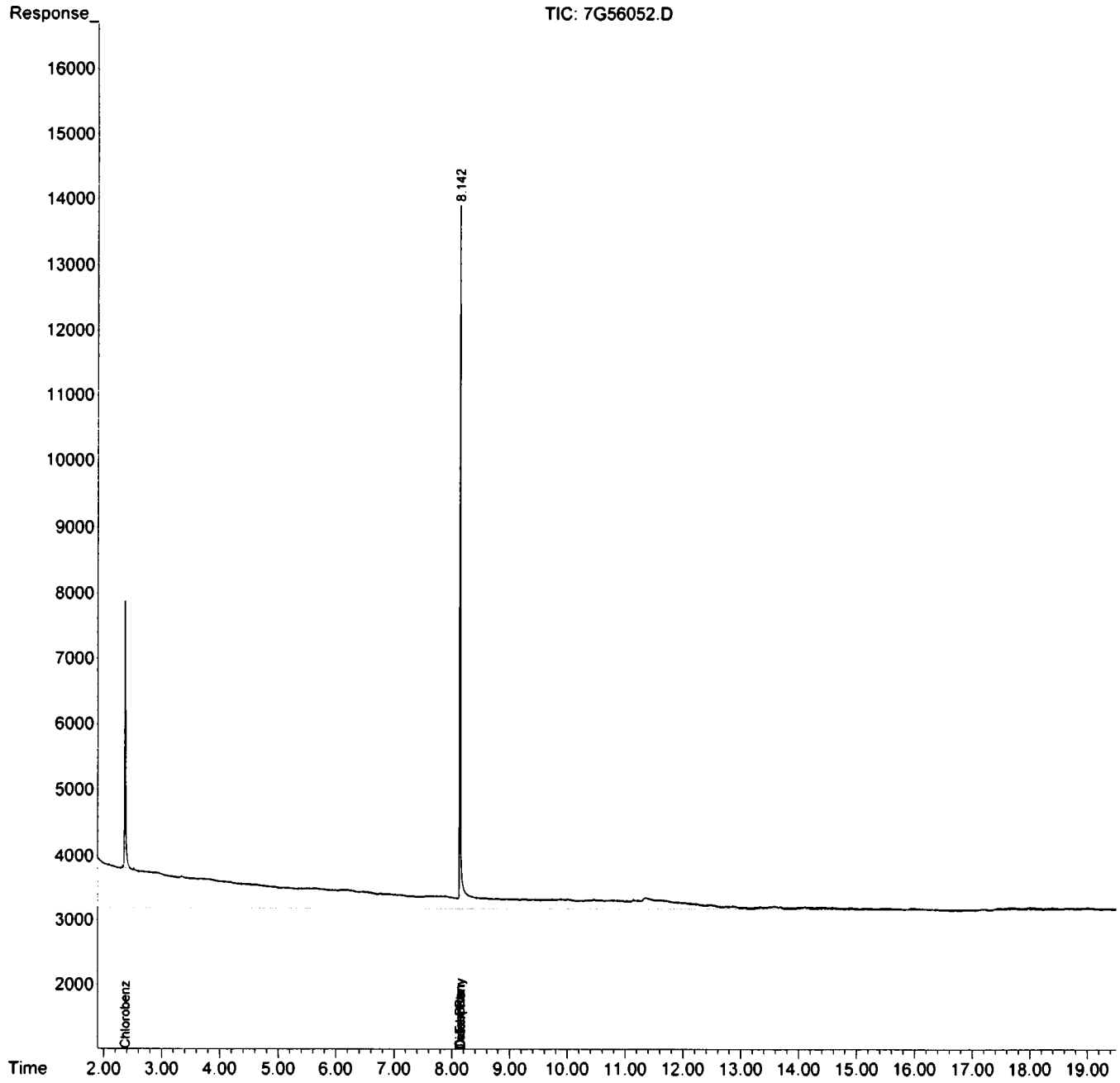
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.370	43958	13.135		
23)	O-Terphenyl	8.142	94621	15.411		
24)d	Diesel Range Organics(T	8.142f	1321183	247.710		m
25)t	Total Petroleum Hydroca	8.142f	1968221	377.521		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56052.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:22
Operator : ABM/AH
Sample : AD26731-003
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:02:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95430
Client Id:
Data File: 8G667250.D
Analysis Date: 10/29/21 14:31
Date Rec/Extracted: NA-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 615206 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

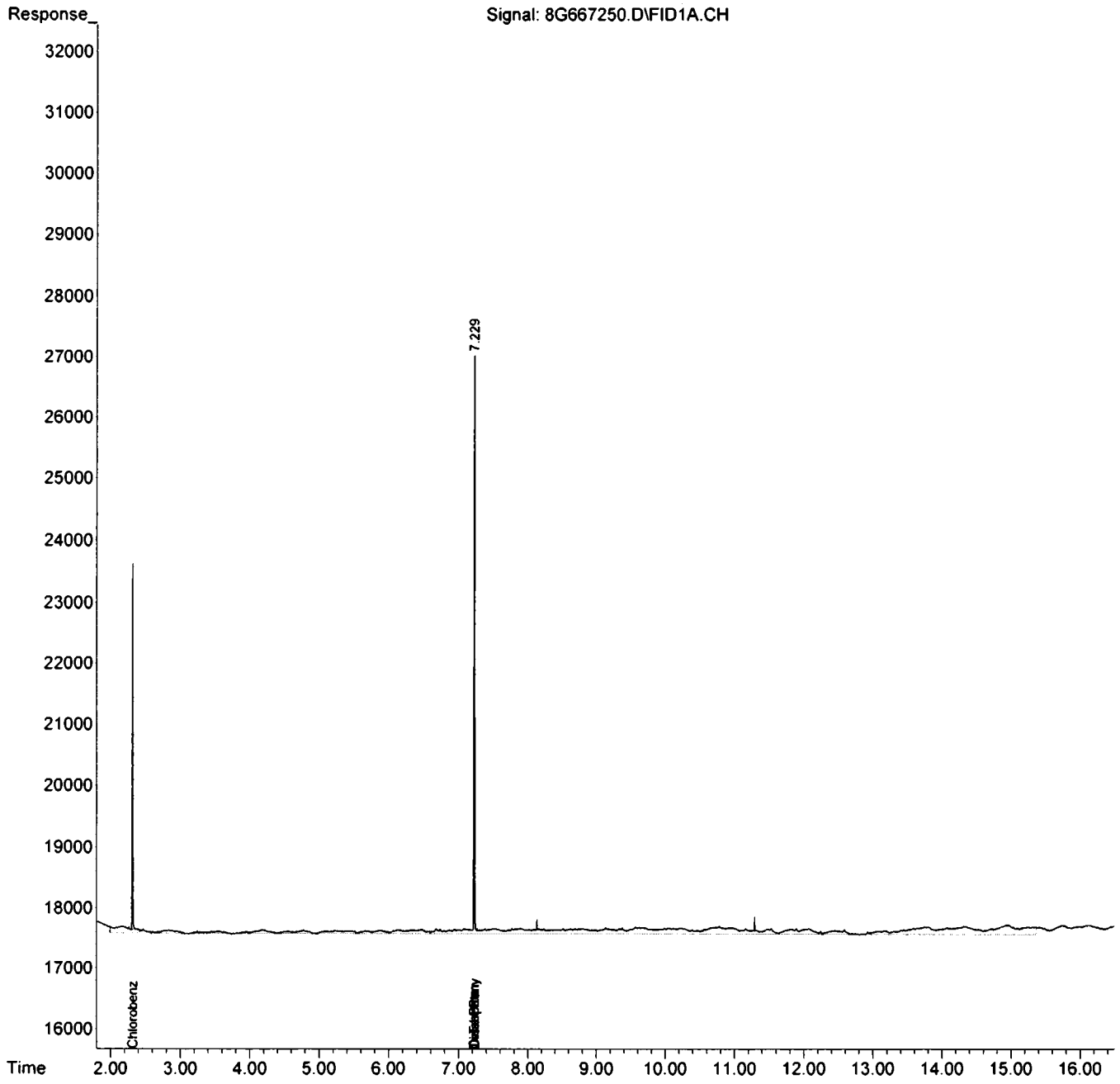
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.317	34100	15.539		
23)	O-Terphenyl	7.229	58399	15.001		
24)d	Diesel Range Organics(T	7.229f	289246	89.855		m
25)t	Total Petroleum Hydroca	7.229f	616531	196.637		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667250.D	SMB95430	S	10/29/21 14:31	1		78	75				
7G56050.D	AD26731-001	S	10/29/21 14:24	1		48	65				
7G56053.D	AD26731-002(3X)	S	10/29/21 15:52	3		44	68				
7G56052.D	AD26731-003	S	10/29/21 15:22	1		66	77				
8G667251.D	SMB95430(MS)	S	10/29/21 14:56	1		70	74				
8G667254.D	AD26731-001(MS)	S	10/29/21 16:11	1		68	73				
8G667255.D	AD26731-001(MSD)	S	10/29/21 16:36	1		68	71				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667251.D	SMB95430(MS)	10/29/2021 2:56:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2184.82**	**0**	**3000**	**73**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**7319.05**	**3802.13**	**3000**	**117**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**7518.93**	**3802.13**	**3000**	**124**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Duplicate(If applicable):	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**7518.93**	**7319.05**	**2.7**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95430
Blank Data File: 8G667250.D
Matrix: Soil

Blank Analysis Date: 10/29/21 14:31
Blank Extraction Date: 10/29/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26731-001	7G56050.D	10/29/21 14:24
AD26731-002(3X)	7G56053.D	10/29/21 15:52
AD26731-003	7G56052.D	10/29/21 15:22
AD26731-001(MSD	8G667255.D	10/29/21 16:36
AD26731-001(MS)	8G667254.D	10/29/21 16:11
SMB95430(MS)	8G667251.D	10/29/21 14:56

Form 5

Method: EPA 8015D
Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2)	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2)	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667247.D	INST BLK(MECL2)	10/29/21 09:34	Soil					
8G667248.D	CALTPH@20PPM	10/29/21 09:58	Soil	8G66724	7.1973	0		
8G667249.D	INST BLK(MECL2)	10/29/21 11:14	Aqueous	8G66724	0.0000	200		
8G667250.D	SMB95430	10/29/21 14:31	Soil	8G66724	7.2292	0.4422		
8G667251.D	SMB95430(MS)	10/29/21 14:56	Soil	8G66724	7.1983	0.0139		
8G667252.D	AD26756-001	10/29/21 15:21	Soil	8G66724	7.1967	0.0083		
8G667253.D	AD26756-002	10/29/21 15:46	Soil	8G66724	7.1966	0.0097		
8G667254.D	AD26731-001(MS)	10/29/21 16:11	Soil	8G66724	7.1966	0.0097		
8G667255.D	AD26731-001(MSD)	10/29/21 16:36	Soil	8G66724	7.1974	0.0014		
8G667256.D	AD26795-001	10/29/21 17:01	Soil	8G66724	7.1977	0.0056		
8G667257.D	AD26795-002	10/29/21 17:26	Soil	8G66724	7.1975	0.0028		
8G667258.D	CALTPH@20PPM	10/29/21 17:52	Soil	8G66724	7.1977	0.0056		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7
Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56047.D	INST BLK	10/29/21 09:36	Soil					
7G56048.D	CAL TPH@20PPM	10/29/21 10:05	Soil	7G56048.	8.1453	0		
7G56049.D	INST BLK	10/29/21 11:14	Soil	7G56048.	0.0000	200		
7G56050.D	AD26731-001	10/29/21 14:24	Soil	7G56048.	8.1515	0.0761		
7G56051.D	AD26731-002	10/29/21 14:53	Soil	7G56048.	8.1455	0.0025		
7G56052.D	AD26731-003	10/29/21 15:22	Soil	7G56048.	8.1423	0.0368		
7G56053.D	AD26731-002(3X)	10/29/21 15:52	Soil	7G56048.	8.1393	0.0737		
7G56054.D	CAL TPH@20PPM	10/29/21 16:21	Soil	7G56048.	8.1441	0.0147		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101901 0140

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1101901 0141

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56048.D				7G56054.D				8G667248.D				8G667258.D			
Method:				8015				8015				8015				8015			
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM				CALTPH@20PPM				CALTPH@20PPM			
Calibration Date/Time				10/29/21 10:05				10/29/21 16:21				10/29/21 09:58				10/29/21 17:52			
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff	
C8	20	1	0	17.6	20	12.0		18.14	20	9.3		20.85	20	4.3		16.63	20	16.9	
C9	20	1	0	17.96	20	10.2		18.44	20	7.8		21.41	20	7.0		16.63	20	16.9	
C10	20	1	0	17.51	20	12.5		18.33	20	8.4		21.88	20	9.4		16.9	20	15.5	
C12	20	1	0	16.47	20	17.7		17.2	20	14.0		22.81	20	14.1		17.21	20	14.0	
C14	20	1	0	17.52	20	12.4		20.01	20	0.1		23.47	20	17.4		16.73	20	16.4	
C16	20	1	0	18.7	20	6.5		19.93	20	0.3		24.19	20	21.0*		16.8	20	16.0	
C17	20	1	0	14.34	20	28.3*		17.21	20	14.0		23.68	20	18.4		17.02	20	14.9	
Pristane	20	1	0	25.86	20	29.3*		24.5	20	22.5*		23.58	20	17.9		16.73	20	16.4	
C18	20	1	0	17.67	20	11.7		18.22	20	8.9		24.56	20	22.8*		16.81	20	16.0	
Phytane	20	1	0	21.06	20	5.3		21.73	20	8.6		24.91	20	24.6*		16.69	20	16.6	
C20	20	1	0	20.95	20	4.8		20.75	20	3.8		25.17	20	25.9*		16.6	20	17.0	
C22	20	1	0	20.75	20	3.8		21.19	20	6.0		25.52	20	27.6*		16.74	20	16.3	
C24	20	1	0	20.81	20	4.0		21.09	20	5.5		25.33	20	26.7*		16.61	20	17.0	
C26	20	1	0	20.83	20	4.2		21.29	20	6.5		25.58	20	27.9*		16.28	20	18.6	
C28	20	1	0	20.77	20	3.9		21.23	20	6.1		25.41	20	27.1*		16.35	20	18.3	
C30	20	1	0	21.09	20	5.5		21.3	20	6.5		24.88	20	24.4*		16.39	20	18.1	
C32	20	1	0	21.22	20	6.1		21.48	20	7.4		24.39	20	22.0*		16.83	20	15.9	
C34	20	1	0	19.64	20	1.8		20.17	20	0.9		22.32	20	11.6		16.6	20	17.0	
C36	20	1	0	17.49	20	12.6		17.8	20	11.0		18.92	20	5.4		15.44	20	22.8*	
C40	20	1	0	13.63	20	31.9*		13.19	20	34.1*		13.62	20	31.9*		12.72	20	36.4*	
C44	20	1	0	9.67	20	51.7*		10.42	20	47.9*		12.94	20	35.3*		12.81	20	36.0*	
Chlorobenzene	20	1	0	18.8	20	6.0		20.11	20	0.6		22.03	20	10.2		16.58	20	17.1	
O-Terphenyl	20	1	0	21.21	20	6.0		21.76	20	8.8		24.91	20	24.6*		16.63	20	16.9	
Average Difference	20	1	0			12.5				10.4				19.9				18.5	

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26731-001
Client Id: SB-002SS1(16-18)
Data File: 7G56050.D
Analysis Date: 10/29/21 14:24
Date Rec/Extracted: 10/19/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**69**	**870**				

Worksheet #: 615230 *Total Target Concentration* 870 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56050.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 14:24
Operator : ABM/AH
Sample : AD26731-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:02:40 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

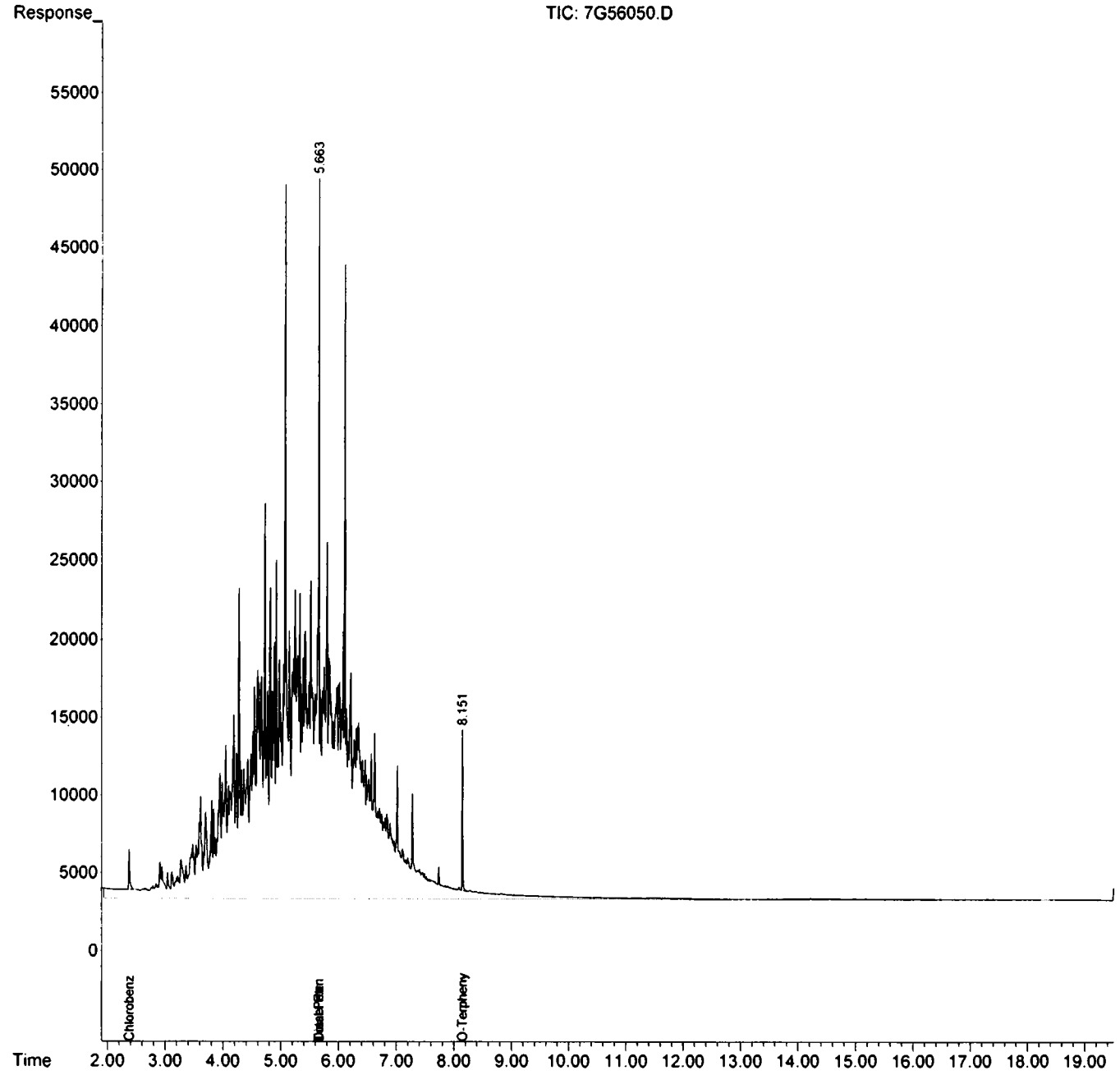
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.376	32038	9.573		
23)	O-Terphenyl	8.152	79923	13.017		
24)d	Diesel Range Organics(T	5.663f	21691440	4066.956		m
25)t	Total Petroleum Hydroca	5.663	22432972	4302.824		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56050.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 14:24
Operator : ABM/AH
Sample : AD26731-001
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:02:40 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26731-002(3X)
Client Id: SB002SS2(18-20)
Data File: 7G56053.D
Analysis Date: 10/29/21 15:52
Date Rec/Extracted: 10/19/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 3
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**230**	**2000**				

Worksheet #: 615230

Total Target Concentration 2000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56053.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:52
Operator : ABM/AH
Sample : AD26731-002(3X)
Misc : S,TPH:3
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:16:36 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

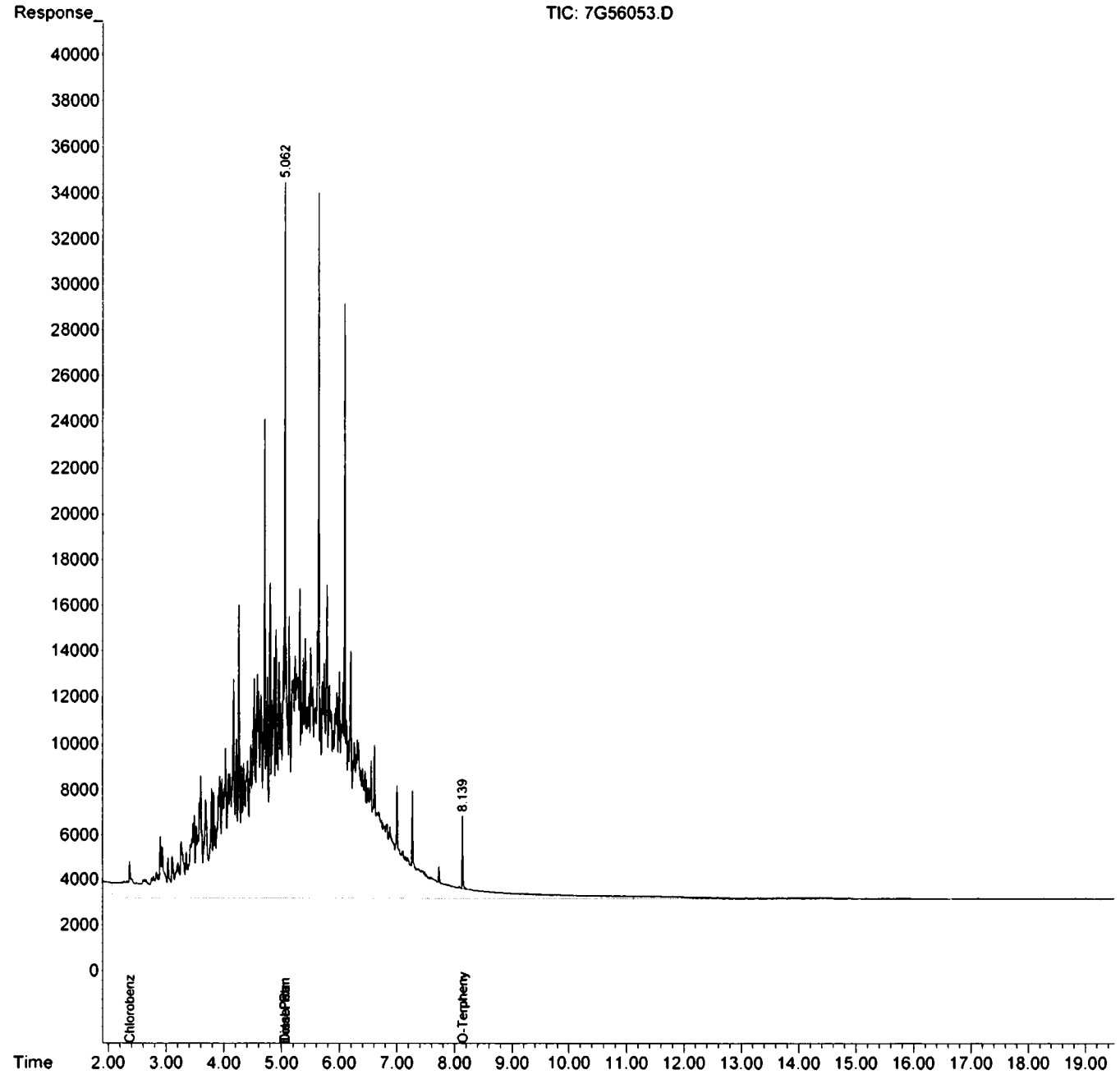
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.367	9730	2.907		m
23)	O-Terphenyl	8.139	27767	4.522		
24)d	Diesel Range Organics(T	5.062	14904651	2794.492		m
25)t	Total Petroleum Hydroca	5.062	15596914	2991.613		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56053.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:52
Operator : ABM/AH
Sample : AD26731-002(3X)
Misc : S,TPH:3
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:16:36 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26731-003
Client Id: SB-001SS(4-6)
Data File: 7G56052.D
Analysis Date: 10/29/21 15:22
Date Rec/Extracted: 10/19/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	65	U				

Worksheet #: 615230 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56052.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:22
Operator : ABM/AH
Sample : AD26731-003
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:02:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

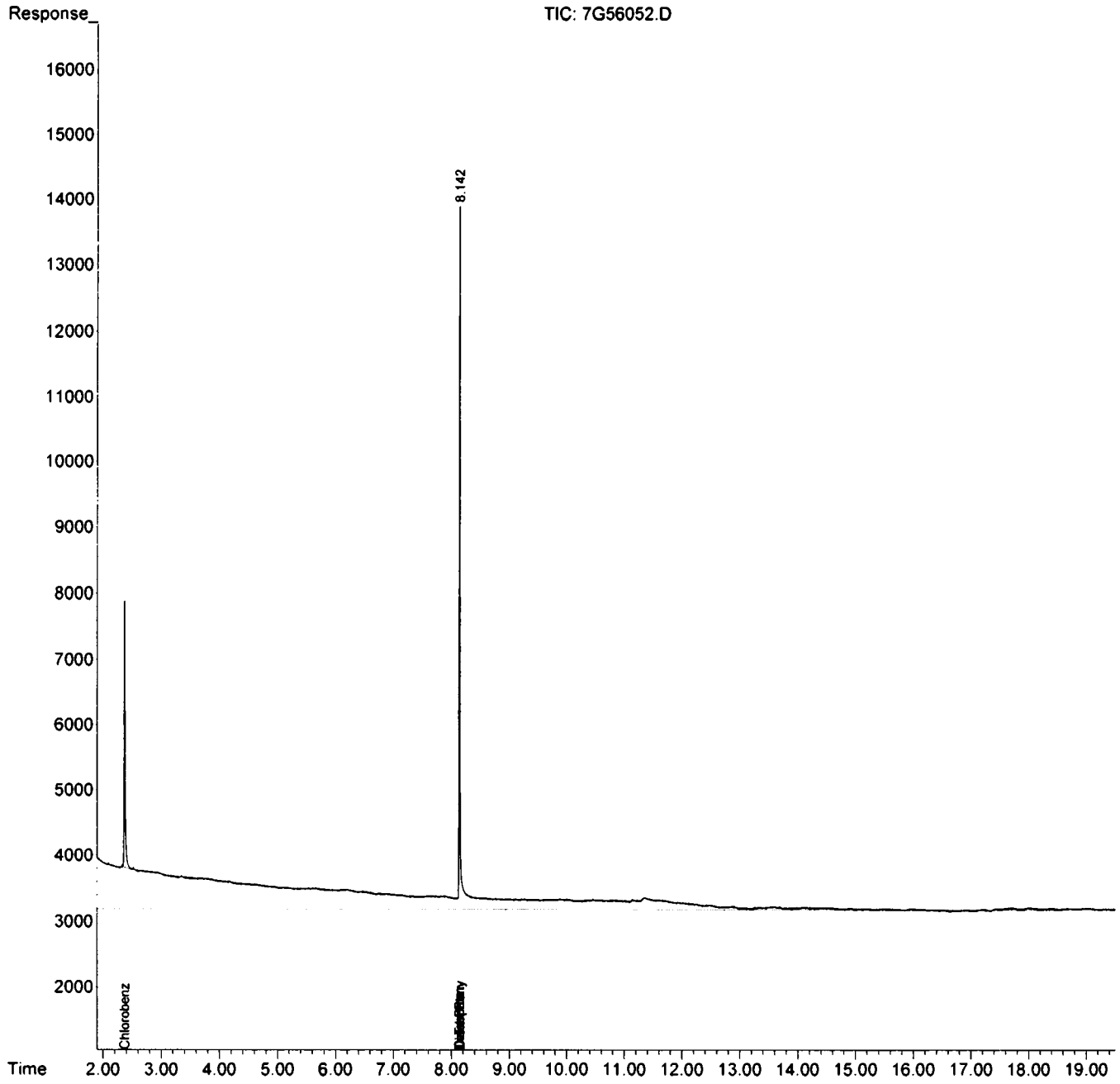
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.370	43958	13.135		
23)	O-Terphenyl	8.142	94621	15.411		
24)d	Diesel Range Organics(T	8.142f	1321183	247.710		m
25)t	Total Petroleum Hydroca	8.142f	1968221	377.521		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\10-29-21\
Data File : 7G56052.D
Signal(s) : FID2B.CH
Acq On : 29 Oct 2021 15:22
Operator : ABM/AH
Sample : AD26731-003
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 16:02:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95430
Client Id:
Data File: 8G667250.D
Analysis Date: 10/29/21 14:31
Date Rec/Extracted: NA-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 615230

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

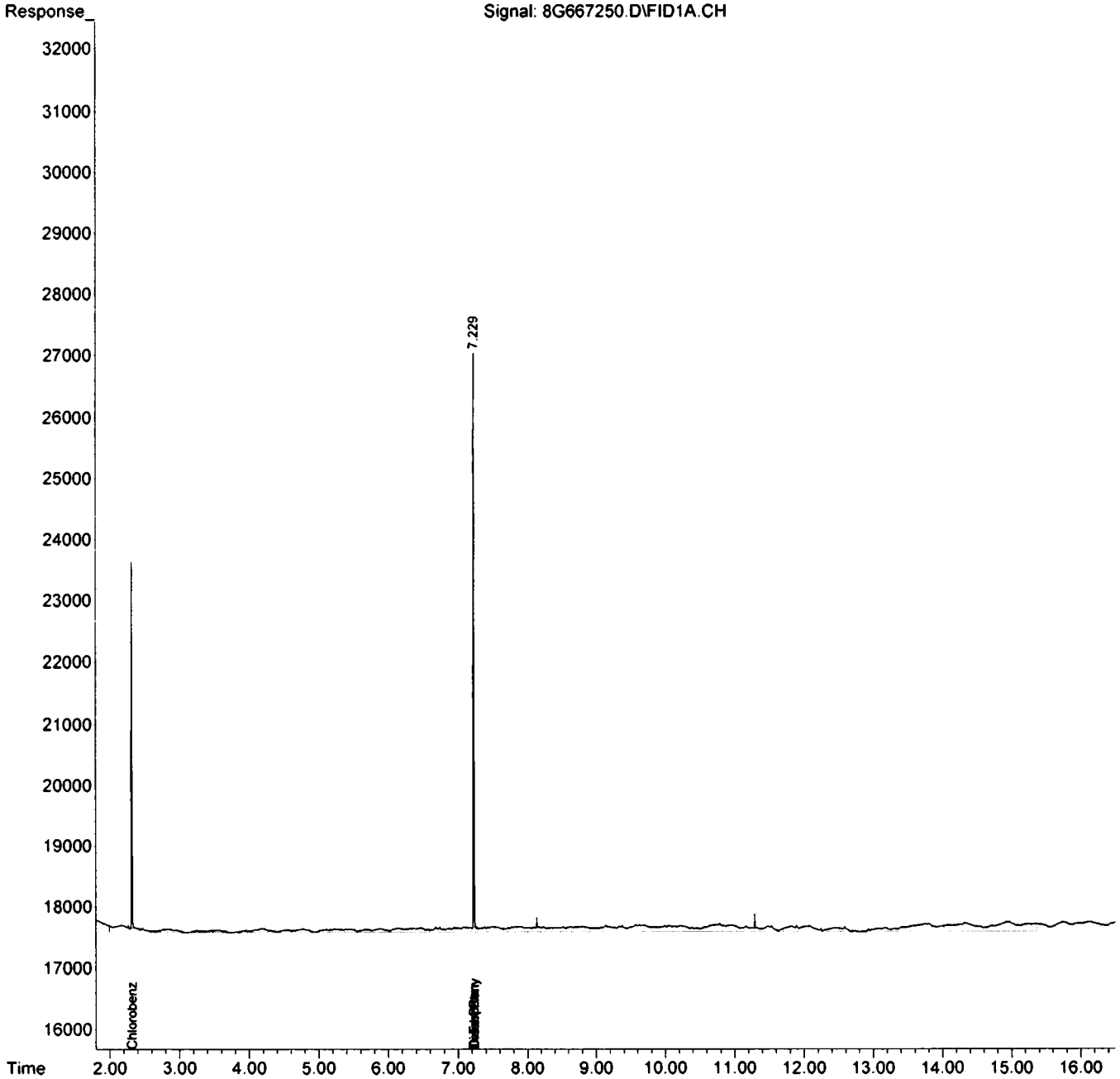
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.317	34100	15.539		
23)	O-Terphenyl	7.229	58399	15.001		
24)d	Diesel Range Organics(T	7.229f	289246	89.855		m
25)t	Total Petroleum Hydroca	7.229f	616531	196.637		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667250.D	SMB95430	S	10/29/21 14:31	1		78	75				
7G56050.D	AD26731-001	S	10/29/21 14:24	1		48	65				
7G56053.D	AD26731-002(3X)	S	10/29/21 15:52	3		44	68				
7G56052.D	AD26731-003	S	10/29/21 15:22	1		66	77				
8G667251.D	SMB95430(MS)	S	10/29/21 14:56	1		70	74				
8G667254.D	AD26731-001(MS)	S	10/29/21 16:11	1		68	73				
8G667255.D	AD26731-001(MSD)	S	10/29/21 16:36	1		68	71				

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667251.D	SMB95430(MS)	10/29/2021 2:56:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2184.82**	**0**	**3000**	**73**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**7319.05**	**3802.13**	**3000**	**117**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**7518.93**	**3802.13**	**3000**	**124**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Duplicate(If applicable):	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**7518.93**	**7319.05**	**2.7**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95430
Blank Data File: 8G667250.D
Matrix: Soil

Blank Analysis Date: 10/29/21 14:31
Blank Extraction Date: 10/29/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26731-001	7G56050.D	10/29/21 14:24
AD26731-002(3X)	7G56053.D	10/29/21 15:52
AD26731-003	7G56052.D	10/29/21 15:22
AD26731-001(MSD	8G667255.D	10/29/21 16:36
AD26731-001(MS)	8G667254.D	10/29/21 16:11
SMB95430(MS)	8G667251.D	10/29/21 14:56

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2)	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2)	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667247.D	INST BLK(MECL2)	10/29/21 09:34	Soil					
8G667248.D	CALTPH@20PPM	10/29/21 09:58	Soil	8G66724	7.1973	0		
8G667249.D	INST BLK(MECL2)	10/29/21 11:14	Aqueous	8G66724	0.0000	200		
8G667250.D	SMB95430	10/29/21 14:31	Soil	8G66724	7.2292	0.4422		
8G667251.D	SMB95430(MS)	10/29/21 14:56	Soil	8G66724	7.1983	0.0139		
8G667252.D	AD26756-001	10/29/21 15:21	Soil	8G66724	7.1967	0.0083		
8G667253.D	AD26756-002	10/29/21 15:46	Soil	8G66724	7.1966	0.0097		
8G667254.D	AD26731-001(MS)	10/29/21 16:11	Soil	8G66724	7.1966	0.0097		
8G667255.D	AD26731-001(MSD)	10/29/21 16:36	Soil	8G66724	7.1974	0.0014		
8G667256.D	AD26795-001	10/29/21 17:01	Soil	8G66724	7.1977	0.0056		
8G667257.D	AD26795-002	10/29/21 17:26	Soil	8G66724	7.1975	0.0028		
8G667258.D	CALTPH@20PPM	10/29/21 17:52	Soil	8G66724	7.1977	0.0056		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56047.D	INST BLK	10/29/21 09:36	Soil					
7G56048.D	CAL TPH@20PPM	10/29/21 10:05	Soil	7G56048.	8.1453	0		
7G56049.D	INST BLK	10/29/21 11:14	Soil	7G56048.	0.0000	200		
7G56050.D	AD26731-001	10/29/21 14:24	Soil	7G56048.	8.1515	0.0761		
7G56051.D	AD26731-002	10/29/21 14:53	Soil	7G56048.	8.1455	0.0025		
7G56052.D	AD26731-003	10/29/21 15:22	Soil	7G56048.	8.1423	0.0368		
7G56053.D	AD26731-002(3X)	10/29/21 15:52	Soil	7G56048.	8.1393	0.0737		
7G56054.D	CAL TPH@20PPM	10/29/21 16:21	Soil	7G56048.	8.1441	0.0147		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101901 0166

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1101901 0167

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte ,>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			7G56048.D				7G56054.D				8G667248.D				8G667258.D				
Method:			8015				8015				8015				8015				
Calibration Name:			CAL TPH@20PPM				CAL TPH@20PPM				CALTPH@20PPM				CALTPH@20PPM				
Calibration Date/Time			10/29/21 10:05				10/29/21 16:21				10/29/21 09:58				10/29/21 17:52				
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff	Conc	Conc Exp %Diff
C8	20	1	0	17.6	20	12.0	18.14	20	9.3		20.85	20	4.3		16.63	20	16.9		
C9	20	1	0	17.96	20	10.2	18.44	20	7.8		21.41	20	7.0		16.63	20	16.9		
C10	20	1	0	17.51	20	12.5	18.33	20	8.4		21.88	20	9.4		16.9	20	15.5		
C12	20	1	0	16.47	20	17.7	17.2	20	14.0		22.81	20	14.1		17.21	20	14.0		
C14	20	1	0	17.52	20	12.4	20.01	20	0.1		23.47	20	17.4		16.73	20	16.4		
C16	20	1	0	18.7	20	6.5	19.93	20	0.3		24.19	20	21.0*		16.8	20	16.0		
C17	20	1	0	14.34	20	28.3*	17.21	20	14.0		23.68	20	18.4		17.02	20	14.9		
Pristane	20	1	0	25.86	20	29.3*	24.5	20	22.5*		23.58	20	17.9		16.73	20	16.4		
C18	20	1	0	17.67	20	11.7	18.22	20	8.9		24.56	20	22.8*		16.81	20	16.0		
Phytane	20	1	0	21.06	20	5.3	21.73	20	8.6		24.91	20	24.6*		16.69	20	16.6		
C20	20	1	0	20.95	20	4.8	20.75	20	3.8		25.17	20	25.9*		16.6	20	17.0		
C22	20	1	0	20.75	20	3.8	21.19	20	6.0		25.52	20	27.6*		16.74	20	16.3		
C24	20	1	0	20.81	20	4.0	21.09	20	5.5		25.33	20	26.7*		16.61	20	17.0		
C26	20	1	0	20.83	20	4.2	21.29	20	6.5		25.58	20	27.9*		16.28	20	18.6		
C28	20	1	0	20.77	20	3.9	21.23	20	6.1		25.41	20	27.1*		16.35	20	18.3		
C30	20	1	0	21.09	20	5.5	21.3	20	6.5		24.88	20	24.4*		16.39	20	18.1		
C32	20	1	0	21.22	20	6.1	21.48	20	7.4		24.39	20	22.0*		16.83	20	15.9		
C34	20	1	0	19.64	20	1.8	20.17	20	0.9		22.32	20	11.6		16.6	20	17.0		
C36	20	1	0	17.49	20	12.6	17.8	20	11.0		18.92	20	5.4		15.44	20	22.8*		
C40	20	1	0	13.63	20	31.9*	13.19	20	34.1*		13.62	20	31.9*		12.72	20	36.4*		
C44	20	1	0	9.67	20	51.7*	10.42	20	47.9*		12.94	20	35.3*		12.81	20	36.0*		
Chlorobenzene	20	1	0	18.8	20	6.0	20.11	20	0.6		22.03	20	10.2		16.58	20	17.1		
O-Terphenyl	20	1	0	21.21	20	6.0	21.76	20	8.8		24.91	20	24.6*		16.63	20	16.9		
Average Difference	20	1	0			12.5			10.4				19.9				18.5		

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD26731-001
Client Id: SB-002SS1(16-18)
Data File: 13M22851.D
Analysis Date: 10/21/21 16:03
Date Rec/Extracted: 10/19/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.08g:10ml
Final Vol: NA
Dilution: 98.4
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**28**	**130**				

Worksheet #: 615009 *Total Target Concentration* 130 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22851.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 16:03
Operator : JM
Sample : AD26731-001
Misc : M,MEXT!2
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 14:20:19 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

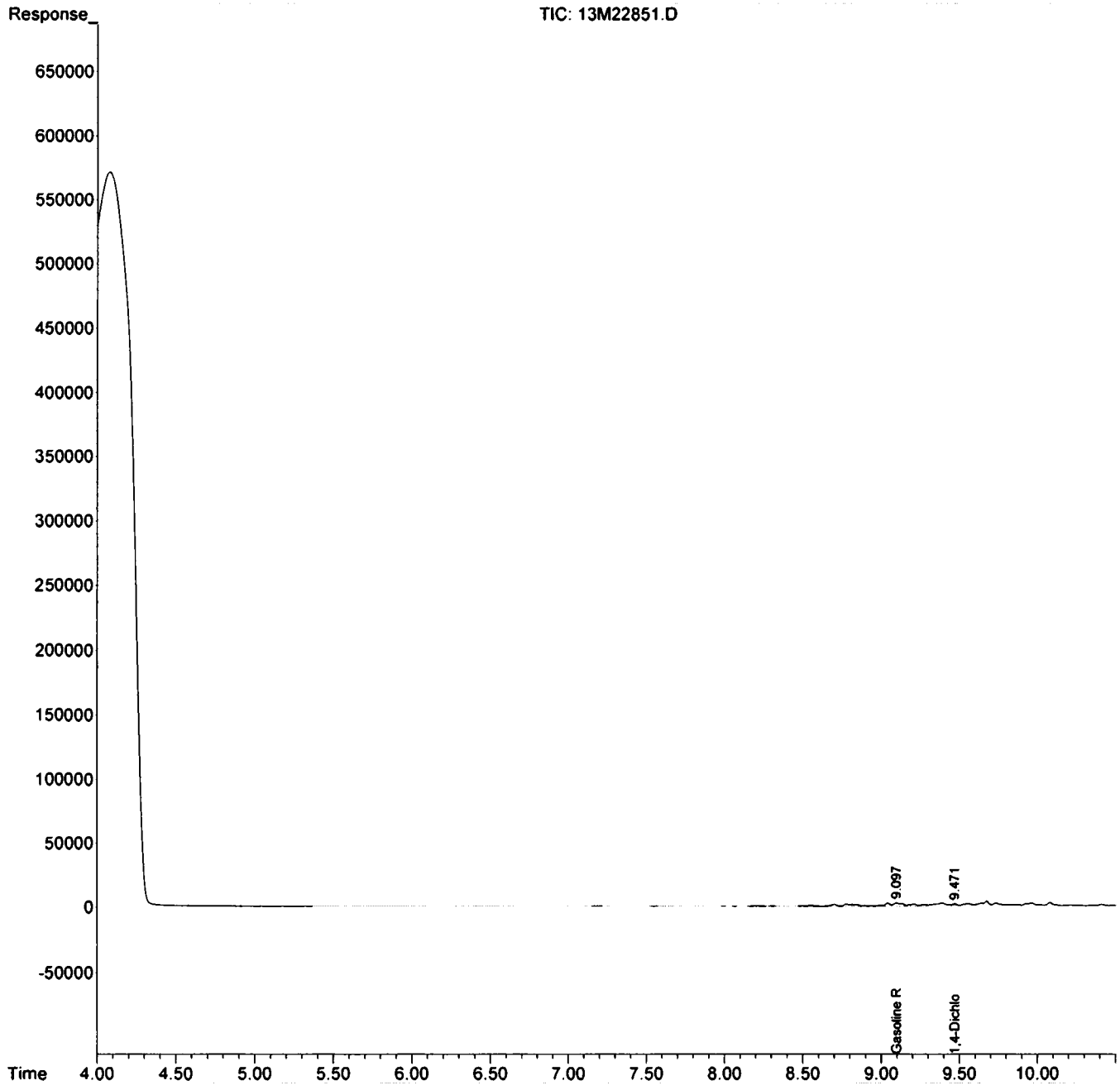
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.471	22945	28.440		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		d
4)g	Gasoline Range Organics	9.097	657997	1145.017	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22851.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 16:03
Operator : JM
Sample : AD26731-001
Misc : M,MEXT!2
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 14:20:19 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD26731-002
Client Id: SB002SS2(18-20)
Data File: 13M22852.D
Analysis Date: 10/21/21 16:21
Date Rec/Extracted: 10/19/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.91g:10ml
Final Vol: NA
Dilution: 84.6
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**27**	**390**				

Worksheet #: 615009 *Total Target Concentration* 390 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22852.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 16:21
Operator : JM
Sample : AD26731-002
Misc : M,MEXT!2
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 14:21:44 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

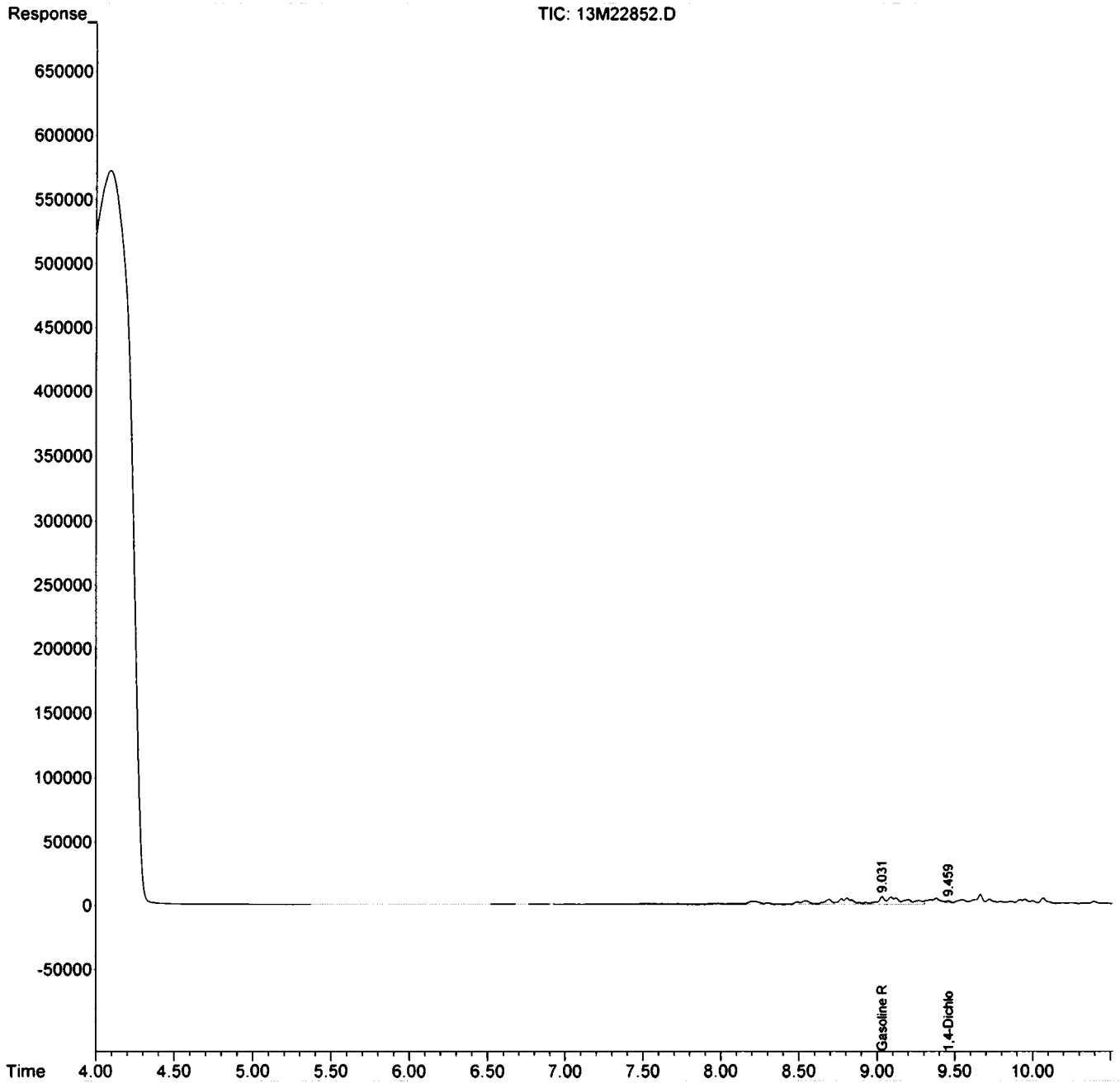
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.459	25101	31.113		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		d
4)g	Gasoline Range Organics	9.031	2029853	3532.258	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22852.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 16:21
Operator : JM
Sample : AD26731-002
Misc : M,MEXT!2
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 14:21:44 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD26731-003
Client Id: SB-001SS(4-6)
Data File: 13M22861.D
Analysis Date: 10/21/21 19:04
Date Rec/Extracted: 10/19/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 4.86g:10ml
Final Vol: NA
Dilution: 103
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	28	U				

Worksheet #: 615009

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22861.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 19:04
Operator : JM
Sample : AD26731-003
Misc : M,MEXT!2
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 14:21:58 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

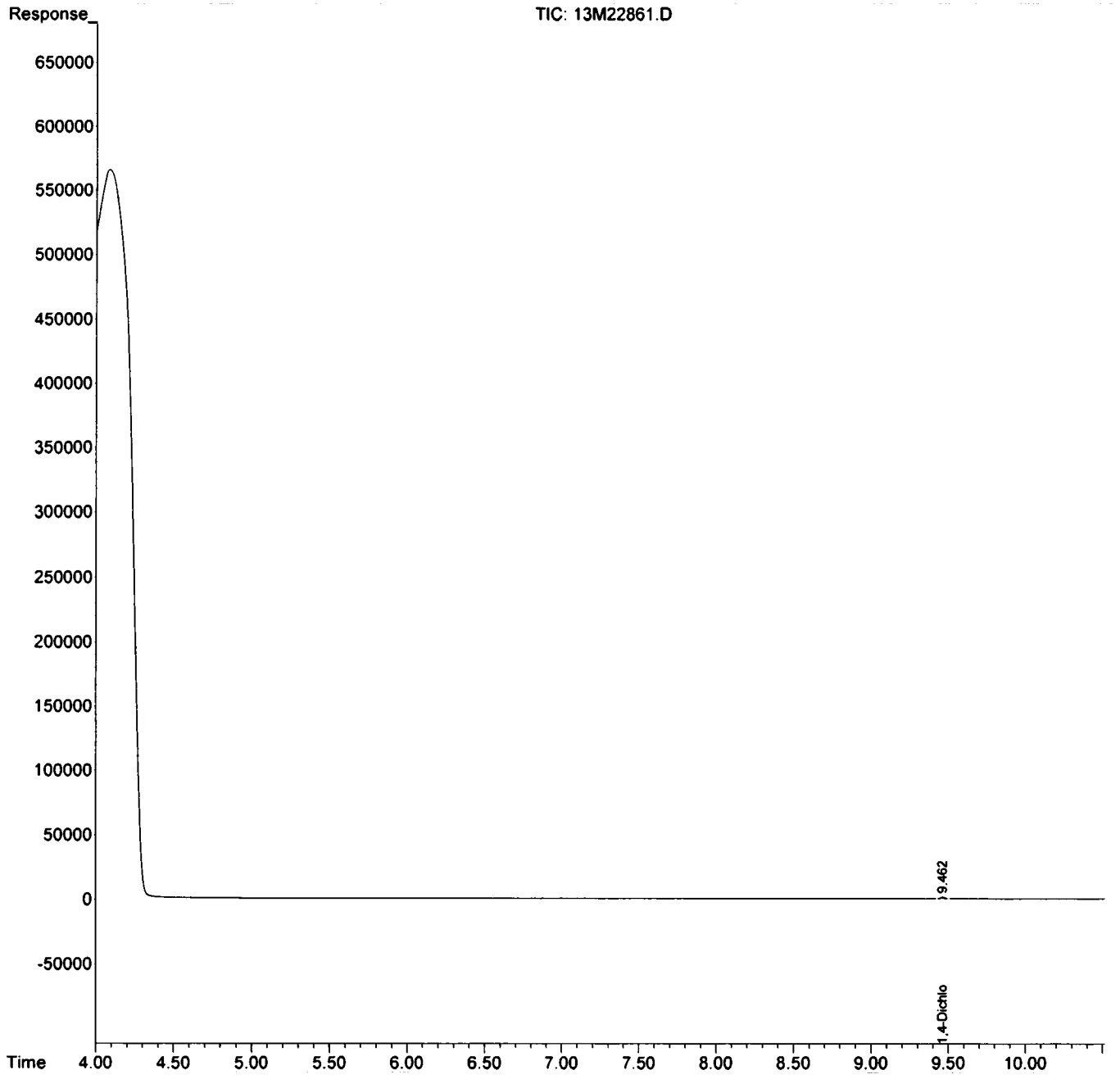
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.463	19855	24.610	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22861.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 19:04
Operator : JM
Sample : AD26731-003
Misc : M,MEXT!2
ALS Vial : 30 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 14:21:58 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M22837.D
Analysis Date: 10/21/21 12:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 615009 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22837.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 12:07
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 22 12:33:04 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

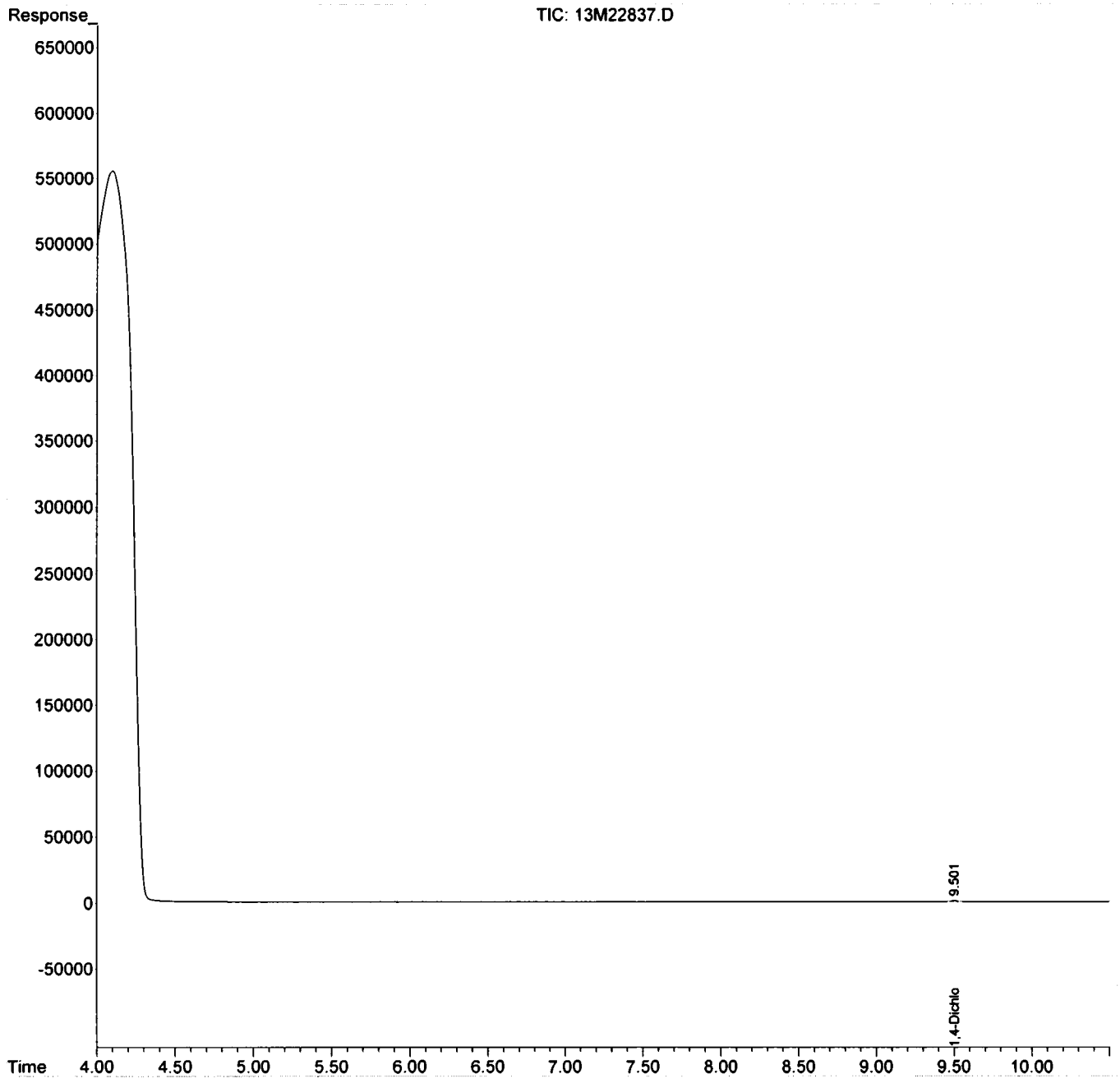
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.501	20453	25.351		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-21-21\
Data File : 13M22837.D
Signal(s) : FID1A.CH
Acq On : 21 Oct 2021 12:07
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 22 12:33:04 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M22837.D	DAILY BLANK	M	10/21/21 12:07	1		84					
13M22851.D	AD26731-001	M	10/21/21 16:03	1		95					
13M22852.D	AD26731-002	M	10/21/21 16:21	1		104					
13M22861.D	AD26731-003	M	10/21/21 19:04	1		82					
13M22839.D	AD26686-007	M	10/21/21 12:40	1		82					
13M22840.D	MBS97021	M	10/21/21 12:57	1		108					
13M22842.D	AD26686-007(MS)	M	10/21/21 13:30	1		96					
13M22843.D	AD26686-007(MSD)	M	10/21/21 13:47	1		98					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS97021

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22840.D	MBS97021	10/21/2021 12:57:00 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2440.38	0	2000	122	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS97021

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22842.D	AD26686-007(MS)	10/21/2021 1:30:00 PM
Non Spike(If applicable):	13M22839.D	AD26686-007	10/21/2021 12:40:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1691.16	0	2000	85	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22843.D	AD26686-007(MSD)	10/21/2021 1:47:00 PM
Non Spike(If applicable):	13M22839.D	AD26686-007	10/21/2021 12:40:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1766.73	0	2000	88	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS97021

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22843.D	AD26686-007(MSD)	10/21/2021 1:47:00 PM
Duplicate(If applicable):	13M22842.D	AD26686-007(MS)	10/21/2021 1:30:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	1766.73	1691.16	4.4	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M22837.D
Matrix: Methanol

Blank Analysis Date: 10/21/21 12:07
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26731-001	13M22851.D	10/21/21 16:03
AD26731-002	13M22852.D	10/21/21 16:21
AD26731-003	13M22861.D	10/21/21 19:04
AD26686-007(MSD	13M22843.D	10/21/21 13:47
AD26686-007(MS)	13M22842.D	10/21/21 13:30
MBS97021	13M22840.D	10/21/21 12:57
AD26686-007	13M22839.D	10/21/21 12:40

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22741.D	250PPB	10/14/21 10:47	Aqueous					
13M22746.D	BLK	10/14/21 12:20	Aqueous					
13M22747.D	250PPB	10/14/21 12:37	Aqueous					
13M22750.D	BLK	10/14/21 13:50	Aqueous					
13M22762.D	BLK	10/14/21 17:12	Aqueous					
13M22763.D	BLK	10/14/21 17:28	Aqueous					
13M22764.D	CAL @ 250PPB	10/14/21 17:45	Aqueous	13M2277	9.4618	0.0994		
13M22765.D	CAL @ 500PPB	10/14/21 18:01	Aqueous	13M2277	9.4569	0.0476		
13M22766.D	CAL @ 750PPB	10/14/21 18:18	Aqueous	13M2277	9.4654	0.1374		
13M22767.D	CAL @ 1000PPB	10/14/21 18:34	Aqueous	13M2277	9.4625	0.1068		
13M22768.D	CAL @ 1500PPB	10/14/21 18:51	Aqueous	13M2277	9.4633	0.1152		
13M22769.D	CAL @ 2000PPB	10/14/21 19:07	Aqueous	13M2277	9.4578	0.0571		
13M22770.D	CAL @ 4000PPB	10/14/21 19:24	Aqueous	13M2277	9.4524	0		
13M22771.D	BLK	10/14/21 19:40	Aqueous	13M2277	9.4568	0.0465		
13M22772.D	BLK	10/14/21 19:56	Aqueous	13M2277	9.4565	0.0434		
13M22773.D	ICV	10/14/21 20:13	Aqueous	13M2277	9.4588	0.0677		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22833.D	CAL @ 2000PPB	10/21/21 11:00	Aqueous	13M2283	9.4909	0		
13M22834.D	2000PPB	10/21/21 11:17	Aqueous	13M2283	0.0000	200		
13M22835.D	BLK	10/21/21 11:34	Methanol	13M2283	9.4917	0.0084		
13M22836.D	BLK	10/21/21 11:50	Methanol	13M2283	9.4992	0.0874		
13M22837.D	DAILY BLANK	10/21/21 12:07	Methanol	13M2283	9.5008	0.1043		
13M22839.D	AD26686-007	10/21/21 12:40	Methanol	13M2283	9.4874	0.0369		
13M22840.D	MBS97021	10/21/21 12:57	Methanol	13M2283	9.4887	0.0232		
13M22841.D	MBS97022	10/21/21 13:13	Aqueous	13M2283	9.4728	0.1909		
13M22842.D	AD26686-007(MS)	10/21/21 13:30	Methanol	13M2283	9.4718	0.2015		
13M22843.D	AD26686-007(MSD)	10/21/21 13:47	Methanol	13M2283	9.4739	0.1793		
13M22844.D	BLK	10/21/21 14:04	Aqueous	13M2283	9.4741	0.1772		
13M22845.D	BLK	10/21/21 14:22	Aqueous	13M2283	9.4697	0.2236		
13M22846.D	AD26756-001	10/21/21 14:38	Methanol	13M2283	9.4622	0.3029		
13M22847.D	AD26756-002	10/21/21 14:55	Methanol	13M2283	9.4659	0.2638		
13M22848.D	BLK	10/21/21 15:13	Aqueous	13M2283	9.4704	0.2162		
13M22849.D	AD26795-001	10/21/21 15:30	Methanol	13M2283	9.4683	0.2384		
13M22850.D	AD26795-002	10/21/21 15:47	Methanol	13M2283	9.4722	0.1972		
13M22851.D	AD26731-001	10/21/21 16:03	Methanol	13M2283	9.4705	0.2152		
13M22852.D	AD26731-002	10/21/21 16:21	Methanol	13M2283	9.4591	0.3356		
13M22853.D	AD26731-003	10/21/21 16:37	Methanol	13M2283	9.4565	0.3631		
13M22854.D	BLK	10/21/21 16:54	Aqueous	13M2283	9.4558	0.3705		
13M22855.D	BLK	10/21/21 17:11	Aqueous	13M2283	9.4538	0.3917		
13M22856.D	2000 PPB	10/21/21 17:38	Aqueous	13M2283	9.4785	0.1307		
13M22858.D	BLK	10/21/21 18:14	Aqueous	13M2283	9.4717	0.2025		
13M22859.D	BLK	10/21/21 18:31	Aqueous	13M2283	9.4672	0.25		
13M22860.D	BLK	10/21/21 18:48	Aqueous	13M2283	9.4622	0.3029		
13M22861.D	AD26731-003	10/21/21 19:04	Methanol	13M2283	9.4627	0.2976		
13M22862.D	CAL @ 2000 PPB	10/21/21 19:21	Aqueous	13M2283	9.4623	0.3018		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1101901 0190

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M22770.	CAL @ 4000PPB	10/14/21 19:24	2	13M22769.	CAL @ 2000PPB	10/14/21 19:07
3	13M22768.	CAL @ 1500PPB	10/14/21 18:51	4	13M22767.	CAL @ 1000PPB	10/14/21 18:34
5	13M22766.	CAL @ 750PPB	10/14/21 18:18	6	13M22765.	CAL @ 500PPB	10/14/21 18:01
7	13M22764.	CAL @ 250PPB	10/14/21 17:45				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1111	0.0908	0.0815	0.0763	0.0721	0.0678	0.0649	----	0.0807	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000	----	.0000900	5.44	0.998	0.998	19	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0014	0.0014	0.0012	0.0013	0.0012	0.0010	0.0009	----	0.00125	9.27	0.998	0.999	15	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0663	0.0648	0.0559	0.0569	0.0612	0.0496	0.0472	----	0.0575	8.51	0.997	0.998	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 33.1 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M22833.D			13M22862.D											
Method:			8015			8015											
Calibration Name:			CAL @ 2000PPB			CAL @ 2000 PPB											
Calibration Date/Time			10/21/21 11:00			10/21/21 19:21											
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	2167	2000	8.4	1872	2000	6.4									

Flags/Notes: ** - Values outside of limits for this column/run*

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1101901**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD26731-001	SB-002SS1(16-18	Soil/Terracore	1	87	Percent			10/20/21	10/19/21	10/18/21
AD26731-002	SB002SS2(18-20)	Soil/Terracore	1	77	Percent			10/20/21	10/19/21	10/18/21
AD26731-003	SB-001SS(4-6)	Soil/Terracore	1	93	Percent			10/20/21	10/19/21	10/18/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12420

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD26731-001	87	87.23640	Percent	1.31	10.32	9.17	10/20/21	BEENA	0.63	5
Sample	AD26559-031	94	93.54414	Percent	1.28	8.87	8.38	10/20/21	BEENA		
Sample	AD26559-032	88	87.99368	Percent	1.29	7.62	6.86	10/20/21	BEENA		
Sample	AD26559-049	92	91.61452	Percent	1.30	9.29	8.62	10/20/21	BEENA		
Sample	AD26559-050	90	89.86842	Percent	1.30	8.90	8.13	10/20/21	BEENA		
Sample	AD26559-067	90	89.74070	Percent	1.30	10.17	9.26	10/20/21	BEENA		
Sample	AD26559-068	92	92.32614	Percent	1.30	9.64	9.00	10/20/21	BEENA		
Sample	AD26622-007	84	83.85650	Percent	1.31	12.46	10.66	10/20/21	BEENA		
Sample	AD26731-001	87	86.68582	Percent	1.29	11.73	10.34	10/20/21	BEENA		
Sample	AD26731-002	77	76.60044	Percent	1.30	10.36	8.24	10/20/21	BEENA		
Sample	AD26737-001	89	88.84228	Percent	1.29	13.21	11.88	10/20/21	BEENA		
Sample	AD26737-002	78	77.87611	Percent	1.29	10.33	8.33	10/20/21	BEENA		
Sample	AD26737-003	84	84.00000	Percent	1.28	8.78	7.58	10/20/21	BEENA		
Sample	AD26737-004	87	86.74948	Percent	1.28	10.94	9.66	10/20/21	BEENA		
Sample	AD26737-005	83	83.17008	Percent	1.30	12.53	10.64	10/20/21	BEENA		
Sample	AD26737-006	87	87.43961	Percent	1.28	9.56	8.53	10/20/21	BEENA		
Sample	AD26737-007	90	90.25710	Percent	1.29	8.68	7.95	10/20/21	BEENA		
Sample	AD26737-008	91	90.76212	Percent	1.29	9.95	9.15	10/20/21	BEENA		
Sample	AD26737-009	95	94.99218	Percent	1.29	7.68	7.36	10/20/21	BEENA		
Sample	AD26738-001	99	98.61751	Percent	1.29	7.80	7.71	10/20/21	BEENA		
Sample	AD26739-001	93	93.08756	Percent	1.31	12.16	11.41	10/20/21	BEENA		

* - Indicates Failed Rpd Criteria

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12421

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD26731-003	93	92.70239	Percent	1.30	10.07	9.43	10/20/21	BEENA	0.12	5
Sample	AD26731-003	93	92.81211	Percent	1.28	9.21	8.64	10/20/21	BEENA		
Sample	AD26744-001	92	92.01558	Percent	1.29	11.56	10.74	10/20/21	BEENA		
Sample	AD26744-002	89	89.24180	Percent	1.30	11.06	10.01	10/20/21	BEENA		
Sample	AD26744-003	89	88.67580	Percent	1.31	12.26	11.02	10/20/21	BEENA		
Sample	AD26744-004	90	89.52641	Percent	1.30	12.28	11.13	10/20/21	BEENA		
Sample	AD26744-005	89	89.05852	Percent	1.29	13.08	11.79	10/20/21	BEENA		
Sample	AD26746-001	87	87.22467	Percent	1.30	12.65	11.20	10/20/21	BEENA		
Sample	AD26746-002	86	85.90250	Percent	1.30	8.89	7.81	10/20/21	BEENA		
Sample	AD26746-003	78	78.30065	Percent	1.30	8.95	7.29	10/20/21	BEENA		
Sample	AD26746-004	87	87.47664	Percent	1.31	6.66	5.99	10/20/21	BEENA		
Sample	AD26753-001	78	78.26087	Percent	1.31	14.42	11.58	10/20/21	BEENA		
Sample	AD26753-002	84	84.28128	Percent	1.31	10.98	9.46	10/20/21	BEENA		
Sample	AD26753-003	69	69.39394	Percent	1.30	11.20	8.17	10/20/21	BEENA		
Sample	AD26753-004	72	71.86312	Percent	1.30	9.19	6.97	10/20/21	BEENA		
Sample	AD26753-005	78	78.28371	Percent	1.29	12.71	10.23	10/20/21	BEENA		
Sample	AD26753-006	67	67.33722	Percent	1.29	20.18	14.01	10/20/21	BEENA		
Sample	AD26755-001	94	93.68932	Percent	1.30	9.54	9.02	10/20/21	BEENA		
Sample	AD26755-002	94	94.39439	Percent	1.30	11.29	10.73	10/20/21	BEENA		
Sample	AD26755-003	82	81.76412	Percent	1.30	11.39	9.55	10/20/21	BEENA		
Sample	AD26755-004	83	83.36933	Percent	1.30	15.19	12.88	10/20/21	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Andres Acosta

Received Date: 10/20/2021

Report Date: 11/24/2021

Deliverables: MDE-R

Lab ID: AD26756

Lab Project No: 1102001

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1102001

Sample Summary

Client: Intertek-PSI

HC Project #: 1102001

Project: CSA WMATA 0444100

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD26756-001	SB-003SS (6-8.5)	Soil/Terracore	10/19/2021	10/20/2021
AD26756-002	SB-007SS (4-6)	Soil/Terracore	10/19/2021	10/20/2021

HC Case Narrative

Client: Intertek **HC Project:** 1102001
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 97020 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 97020, 97044 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 95427 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The Matrix Spike and/or Matrix Spike Duplicate for batch 95427 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Sample AD26756-001 had one or more surrogate recoveries outside QC limits. The sample was reanalyzed confirming recoveries outside QC limits due to matrix interference. The initial analysis is reported. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The serial dilution for batch 96486 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

11/29/21
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1102001

Project: CSA WMATA 0444100

Lab#: AD26756-001 **Sample ID: SB-003SS (6-8.5)**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	6.8	30	EPA 6010D
Lead	mg/kg	6.8	10	EPA 6010D
Arsenic	mg/kg	0.27	1.9	EPA 6020B
Gasoline Range Organics	mg/kg	48	680	EPA 8015D
Tetrachloroethene	mg/kg	0.095	0.74	EPA 8260D

Lab#: AD26756-002 **Sample ID: SB-007SS (4-6)**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.6	33	EPA 6010D
Lead	mg/kg	5.6	9.3	EPA 6010D
Arsenic	mg/kg	0.22	1.8	EPA 6020B
Diesel Range Organics	mg/kg	67	220	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	67	270	EPA 8015D
Methylene chloride	mg/kg	0.0022	0.0034	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI **HC Project #:** 1102001

Project: CSA WMATA 0444100

Sample ID: SB-003SS (6-8.5) **Collection Date:** 10/19/2021
Lab#: AD26756-001 **Receipt Date:** 10/20/2021
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		74

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	81	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	141	mg/kg	48	680

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	6.8	30
Lead	1	mg/kg	6.8	10

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.27	1.9
Cadmium	1	mg/kg	0.54	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.045	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.045	ND
1,2-Diphenylhydrazine	1	mg/kg	0.045	ND
1,4-Dioxane	1	mg/kg	0.023	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.045	ND
2,4,5-Trichlorophenol	1	mg/kg	0.045	ND
2,4,6-Trichlorophenol	1	mg/kg	0.045	ND
2,4-Dichlorophenol	1	mg/kg	0.017	ND
2,4-Dimethylphenol	1	mg/kg	0.022	ND
2,4-Dinitrophenol	1	mg/kg	0.23	ND
2,4-Dinitrotoluene	1	mg/kg	0.045	ND
2,6-Dinitrotoluene	1	mg/kg	0.045	ND
2-Chloronaphthalene	1	mg/kg	0.045	ND
2-Chlorophenol	1	mg/kg	0.045	ND
2-Methylnaphthalene	1	mg/kg	0.045	ND
2-Methylphenol	1	mg/kg	0.013	ND
2-Nitroaniline	1	mg/kg	0.045	ND
2-Nitrophenol	1	mg/kg	0.045	ND
3&4-Methylphenol	1	mg/kg	0.013	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.045	ND
3-Nitroaniline	1	mg/kg	0.045	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.23	ND
4-Bromophenyl-phenylether	1	mg/kg	0.045	ND
4-Chloro-3-methylphenol	1	mg/kg	0.045	ND
4-Chloroaniline	1	mg/kg	0.020	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.045	ND
4-Nitroaniline	1	mg/kg	0.045	ND

Sample ID: SB-003SS (6-8.5) **Collection Date:** 10/19/2021
Lab#: AD26756-001 **Receipt Date:** 10/20/2021
Matrix: Soil/Terracore

4-Nitrophenol	1	mg/kg	0.045	ND
Acenaphthene	1	mg/kg	0.045	ND
Acenaphthylene	1	mg/kg	0.045	ND
Acetophenone	1	mg/kg	0.045	ND
Anthracene	1	mg/kg	0.045	ND
Atrazine	1	mg/kg	0.045	ND
Benzaldehyde	1	mg/kg	0.49	ND
Benzidine	1	mg/kg	0.079	ND
Benzo[a]anthracene	1	mg/kg	0.045	ND
Benzo[a]pyrene	1	mg/kg	0.045	ND
Benzo[b]fluoranthene	1	mg/kg	0.045	ND
Benzo[g,h,i]perylene	1	mg/kg	0.045	ND
Benzo[k]fluoranthene	1	mg/kg	0.045	ND
Benzyl alcohol	1	mg/kg	0.045	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.045	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.011	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.045	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.045	ND
Butylbenzylphthalate	1	mg/kg	0.045	ND
Caprolactam	1	mg/kg	0.045	ND
Carbazole	1	mg/kg	0.045	ND
Chrysene	1	mg/kg	0.045	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.045	ND
Dibenzofuran	1	mg/kg	0.011	ND
Diethylphthalate	1	mg/kg	0.045	ND
Dimethylphthalate	1	mg/kg	0.045	ND
Di-n-butylphthalate	1	mg/kg	0.052	ND
Di-n-octylphthalate	1	mg/kg	0.045	ND
Fluoranthene	1	mg/kg	0.045	ND
Fluorene	1	mg/kg	0.045	ND
Hexachlorobenzene	1	mg/kg	0.045	ND
Hexachlorobutadiene	1	mg/kg	0.045	ND
Hexachlorocyclopentadiene	1	mg/kg	0.15	ND
Hexachloroethane	1	mg/kg	0.045	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.045	ND
Isophorone	1	mg/kg	0.045	ND
Naphthalene	1	mg/kg	0.013	ND
Nitrobenzene	1	mg/kg	0.045	ND
N-Nitrosodimethylamine	1	mg/kg	0.055	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.017	ND
N-Nitrosodiphenylamine	1	mg/kg	0.15	ND
Pentachlorophenol	1	mg/kg	0.23	ND
Phenanthrene	1	mg/kg	0.045	ND
Phenol	1	mg/kg	0.045	ND
Pyrene	1	mg/kg	0.045	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	81	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	70.3	mg/kg	0.095	ND
1,1,2,2-Tetrachloroethane	70.3	mg/kg	0.095	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	70.3	mg/kg	0.095	ND
1,1,2-Trichloroethane	70.3	mg/kg	0.095	ND
1,1-Dichloroethane	70.3	mg/kg	0.095	ND

Sample ID: SB-003SS (6-8.5) **Collection Date:** 10/19/2021
Lab#: AD26756-001 **Receipt Date:** 10/20/2021
Matrix: Soil/Terracore

1,1-Dichloroethene	70.3	mg/kg	0.095	ND
1,2,3-Trichlorobenzene	70.3	mg/kg	0.095	ND
1,2,4-Trichlorobenzene	70.3	mg/kg	0.095	ND
1,2-Dibromo-3-chloropropane	70.3	mg/kg	0.095	ND
1,2-Dibromoethane	70.3	mg/kg	0.095	ND
1,2-Dichlorobenzene	70.3	mg/kg	0.095	ND
1,2-Dichloroethane	70.3	mg/kg	0.061	ND
1,2-Dichloropropane	70.3	mg/kg	0.095	ND
1,3-Dichlorobenzene	70.3	mg/kg	0.095	ND
1,4-Dichlorobenzene	70.3	mg/kg	0.095	ND
1,4-Dioxane	70.3	mg/kg	4.8	ND
2-Butanone	70.3	mg/kg	0.095	ND
2-Hexanone	70.3	mg/kg	0.095	ND
4-Methyl-2-pentanone	70.3	mg/kg	0.095	ND
Acetone	70.3	mg/kg	0.48	ND
Acrolein	70.3	mg/kg	0.48	ND
Acrylonitrile	70.3	mg/kg	0.095	ND
Benzene	70.3	mg/kg	0.048	ND
Bromochloromethane	70.3	mg/kg	0.095	ND
Bromodichloromethane	70.3	mg/kg	0.095	ND
Bromoform	70.3	mg/kg	0.095	ND
Bromomethane	70.3	mg/kg	0.095	ND
Carbon disulfide	70.3	mg/kg	0.095	ND
Carbon tetrachloride	70.3	mg/kg	0.095	ND
Chlorobenzene	70.3	mg/kg	0.095	ND
Chloroethane	70.3	mg/kg	0.095	ND
Chloroform	70.3	mg/kg	0.19	ND
Chloromethane	70.3	mg/kg	0.095	ND
cis-1,2-Dichloroethene	70.3	mg/kg	0.095	ND
cis-1,3-Dichloropropene	70.3	mg/kg	0.095	ND
Cyclohexane	70.3	mg/kg	0.095	ND
Dibromochloromethane	70.3	mg/kg	0.095	ND
Dichlorodifluoromethane	70.3	mg/kg	0.095	ND
Ethylbenzene	70.3	mg/kg	0.095	ND
Isopropylbenzene	70.3	mg/kg	0.095	ND
m&p-Xylenes	70.3	mg/kg	0.095	ND
Methyl Acetate	70.3	mg/kg	0.095	ND
Methylcyclohexane	70.3	mg/kg	0.095	ND
Methylene chloride	70.3	mg/kg	0.095	ND
Methyl-t-butyl ether	70.3	mg/kg	0.048	ND
o-Xylene	70.3	mg/kg	0.095	ND
Styrene	70.3	mg/kg	0.095	ND
t-Butyl Alcohol	70.3	mg/kg	0.48	ND
Tetrachloroethene	**70.3**	**mg/kg**	**0.095**	**0.74**
Toluene	70.3	mg/kg	0.095	ND
trans-1,2-Dichloroethene	70.3	mg/kg	0.095	ND
trans-1,3-Dichloropropene	70.3	mg/kg	0.095	ND
Trichloroethene	70.3	mg/kg	0.095	ND
Trichlorofluoromethane	70.3	mg/kg	0.095	ND
Vinyl chloride	70.3	mg/kg	0.095	ND
Xylenes (Total)	70.3	mg/kg	0.095	ND

Sample ID: SB-007SS (4-6)
Lab#: AD26756-002
Matrix: Soil/Terracore

Collection Date: 10/19/2021
Receipt Date: 10/20/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	67	220

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	90.7	mg/kg	25	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.6	33
Lead	1	mg/kg	5.6	9.3

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.22	1.8
Cadmium	1	mg/kg	0.45	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.037	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.037	ND
1,2-Diphenylhydrazine	1	mg/kg	0.037	ND
1,4-Dioxane	1	mg/kg	0.019	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.037	ND
2,4,5-Trichlorophenol	1	mg/kg	0.037	ND
2,4,6-Trichlorophenol	1	mg/kg	0.037	ND
2,4-Dichlorophenol	1	mg/kg	0.014	ND
2,4-Dimethylphenol	1	mg/kg	0.018	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.037	ND
2,6-Dinitrotoluene	1	mg/kg	0.037	ND
2-Chloronaphthalene	1	mg/kg	0.037	ND
2-Chlorophenol	1	mg/kg	0.037	ND
2-Methylnaphthalene	1	mg/kg	0.037	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.037	ND
2-Nitrophenol	1	mg/kg	0.037	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.037	ND
3-Nitroaniline	1	mg/kg	0.037	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.037	ND
4-Chloro-3-methylphenol	1	mg/kg	0.037	ND
4-Chloroaniline	1	mg/kg	0.016	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.037	ND
4-Nitroaniline	1	mg/kg	0.037	ND
4-Nitrophenol	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Acetophenone	1	mg/kg	0.037	ND
Anthracene	1	mg/kg	0.037	ND
Atrazine	1	mg/kg	0.037	ND

Sample ID: SB-007SS (4-6) **Collection Date:** 10/19/2021
Lab#: AD26756-002 **Receipt Date:** 10/20/2021
Matrix: Soil/Terracore

Benzaldehyde	1	mg/kg	0.41	ND
Benzidine	1	mg/kg	0.066	ND
Benzo[a]anthracene	1	mg/kg	0.037	ND
Benzo[a]pyrene	1	mg/kg	0.037	ND
Benzo[b]fluoranthene	1	mg/kg	0.037	ND
Benzo[g,h,i]perylene	1	mg/kg	0.037	ND
Benzo[k]fluoranthene	1	mg/kg	0.037	ND
Benzyl alcohol	1	mg/kg	0.037	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.037	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0094	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.037	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.037	ND
Butylbenzylphthalate	1	mg/kg	0.037	ND
Caprolactam	1	mg/kg	0.037	ND
Carbazole	1	mg/kg	0.037	ND
Chrysene	1	mg/kg	0.037	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Dibenzofuran	1	mg/kg	0.0095	ND
Diethylphthalate	1	mg/kg	0.037	ND
Dimethylphthalate	1	mg/kg	0.037	ND
Di-n-butylphthalate	1	mg/kg	0.043	ND
Di-n-octylphthalate	1	mg/kg	0.037	ND
Fluoranthene	1	mg/kg	0.037	ND
Fluorene	1	mg/kg	0.037	ND
Hexachlorobenzene	1	mg/kg	0.037	ND
Hexachlorobutadiene	1	mg/kg	0.037	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.037	ND
Isophorone	1	mg/kg	0.037	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.037	ND
N-Nitrosodimethylamine	1	mg/kg	0.046	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.014	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	1	mg/kg	0.037	ND
Phenol	1	mg/kg	0.037	ND
Pyrene	1	mg/kg	0.037	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	67	270

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.99	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.99	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.99	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.99	mg/kg	0.0022	ND
1,1-Dichloroethane	0.99	mg/kg	0.0022	ND
1,1-Dichloroethene	0.99	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.99	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.99	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.99	mg/kg	0.0022	ND
1,2-Dibromoethane	0.99	mg/kg	0.00056	ND
1,2-Dichlorobenzene	0.99	mg/kg	0.0022	ND

Sample ID: SB-007SS (4-6) **Collection Date:** 10/19/2021
Lab#: AD26756-002 **Receipt Date:** 10/20/2021
Matrix: Soil/Terracore

1,2-Dichloroethane	0.99	mg/kg	0.0022	ND
1,2-Dichloropropane	0.99	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.99	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.99	mg/kg	0.0022	ND
1,4-Dioxane	0.99	mg/kg	0.11	ND
2-Butanone	0.99	mg/kg	0.0022	ND
2-Hexanone	0.99	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.99	mg/kg	0.0022	ND
Acetone	0.99	mg/kg	0.011	ND
Acrolein	0.99	mg/kg	0.011	ND
Acrylonitrile	0.99	mg/kg	0.0022	ND
Benzene	0.99	mg/kg	0.0011	ND
Bromochloromethane	0.99	mg/kg	0.0022	ND
Bromodichloromethane	0.99	mg/kg	0.0022	ND
Bromoform	0.99	mg/kg	0.0022	ND
Bromomethane	0.99	mg/kg	0.0022	ND
Carbon disulfide	0.99	mg/kg	0.0038	ND
Carbon tetrachloride	0.99	mg/kg	0.0022	ND
Chlorobenzene	0.99	mg/kg	0.0022	ND
Chloroethane	0.99	mg/kg	0.0022	ND
Chloroform	0.99	mg/kg	0.0022	ND
Chloromethane	0.99	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.99	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.99	mg/kg	0.0022	ND
Cyclohexane	0.99	mg/kg	0.0022	ND
Dibromochloromethane	0.99	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.99	mg/kg	0.0022	ND
Ethylbenzene	0.99	mg/kg	0.0011	ND
Isopropylbenzene	0.99	mg/kg	0.0011	ND
m&p-Xylenes	0.99	mg/kg	0.0013	ND
Methyl Acetate	0.99	mg/kg	0.0022	ND
Methylcyclohexane	0.99	mg/kg	0.0022	ND
Methylene chloride	**0.99**	**mg/kg**	**0.0022**	**0.0034**
Methyl-t-butyl ether	0.99	mg/kg	0.0011	ND
o-Xylene	0.99	mg/kg	0.0011	ND
Styrene	0.99	mg/kg	0.0022	ND
t-Butyl Alcohol	0.99	mg/kg	0.011	ND
Tetrachloroethene	0.99	mg/kg	0.0022	ND
Toluene	0.99	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.99	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.99	mg/kg	0.0022	ND
Trichloroethene	0.99	mg/kg	0.0022	ND
Trichlorofluoromethane	0.99	mg/kg	0.0022	ND
Vinyl chloride	0.99	mg/kg	0.0022	ND
Xylenes (Total)	0.99	mg/kg	0.0011	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 1102001

Project: CSA WMATA 0444100

Lab#: AD26756-001 **Sample ID: SB-003SS (6-8.5)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/21/21 00:00	jessica
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:21	AH/ABM
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/22/21 14:29	JM
RCRA Metals 6010D	3005&10/3050	10/26/21 08:00	asilva	EPA 6010D	10/26/21 14:39	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	10/26/21 08:00	asilva	EPA 6020B	10/26/21 13:46	PC
Semivolatile Organics (no search) 8270	3510C/3550C	10/29/21 13:09	AT	EPA 8270E	11/1/21 11:36	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:21	AH/ABM
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/23/21 02:53	JR

Lab#: AD26756-002 **Sample ID: SB-007SS (4-6)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/21/21 00:00	jessica
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:46	AH/ABM
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/22/21 14:13	JM
RCRA Metals 6010D	3005&10/3050	10/26/21 08:00	asilva	EPA 6010D	10/26/21 14:43	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	10/26/21 08:00	asilva	EPA 6020B	10/26/21 13:50	PC
Semivolatile Organics (no search) 8270	3510C/3550C	10/29/21 13:09	AT	EPA 8270E	11/1/21 11:59	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/29/21 09:53	Lynda	EPA 8015D	10/29/21 15:46	AH/ABM
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/21/21 22:13	sg

Chain of Custody

1102001 0013

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 110200

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlek
Address: 2930 Eskridge Road.
Fairfax, VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andres.acosta@interlek.com
1d) Send Report to: + rinzo.renthlei@interlek

Project Information

2a) Project: CSA WMATA 0444100
2b) Project Mgr:
2c) Project Location (City/State): Washington, DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # A176756

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH - DRO/GRO/PRO	4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
001	SB-00355 (6-8.5)	S	10/19/21	0930			X	X	X	X	1	1						2	
002	SB-00755 (4-6)	S	10/19/21	1000			X	X	X	X	1	1						2	

10) Relinquished by:

Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX		
FEDEX	[signature]	10/20/21	8:30

11) Sampler (print name): RINZO RENTHLEI Date: 10/19/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.4

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD26756 Entered By: maxwell
Date Entered 10/20/2021 8:42:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD26756-001	10/20/21 08:30	MAXW	0	M	Received
AD26756-001	10/20/21 08:42	MAXW	0	M	Login
AD26756-001	10/20/21 15:49	R12	1	A	NONE
AD26756-001	10/20/21 23:22	R12	1	A	NONE
AD26756-001	10/20/21 23:22	PA	1	A	mx
AD26756-001	10/21/21 07:57	JMP	1	A	solids
AD26756-001	10/21/21 08:38	R12	1	A	NONE
AD26756-001	10/26/21 07:52	ANS	1	A	TDSI
AD26756-001	10/26/21 13:19	R12	1	A	NONE
AD26756-001	10/29/21 09:53	LB	1	A	TPH
AD26756-001	10/29/21 09:54	R12	1	A	NONE
AD26756-001	10/29/21 13:09	AT	1	A	BNA
AD26756-001	10/29/21 14:08	R12	1	A	NONE
AD26756-001	10/20/21 09:00	R31	2	A	NONE
AD26756-001	10/21/21 16:15	JM	2	A	GRO
AD26756-001	10/20/21 09:00	F18	3	A	NONE
AD26756-001	10/20/21 09:00	F18	4	A	NONE
AD26756-002	10/20/21 08:30	MAXW	0	M	Received
AD26756-002	10/20/21 08:42	MAXW	0	M	Login
AD26756-002	10/20/21 15:49	R12	1	A	NONE
AD26756-002	10/20/21 23:22	PA	1	A	mx
AD26756-002	10/20/21 23:22	R12	1	A	NONE
AD26756-002	10/21/21 07:57	JMP	1	A	solids
AD26756-002	10/21/21 08:38	R12	1	A	NONE
AD26756-002	10/26/21 07:52	ANS	1	A	TDSI
AD26756-002	10/26/21 13:19	R12	1	A	NONE
AD26756-002	10/29/21 09:53	LB	1	A	TPH
AD26756-002	10/29/21 09:54	R12	1	A	NONE
AD26756-002	10/29/21 13:09	AT	1	A	BNA
AD26756-002	10/29/21 14:08	R12	1	A	NONE
AD26756-002	10/20/21 09:00	R31	2	A	NONE
AD26756-002	10/21/21 16:15	JM	2	A	GRO
AD26756-002	10/20/21 09:00	F18	3	A	NONE
AD26756-002	10/20/21 09:00	F18	4	A	NONE
AD26756-002	10/21/21 15:59	JM	4	A	VOA

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26756-001
Client Id: SB-003SS (6-8.5)
Data File: 2M158625.D
Analysis Date: 10/23/21 02:53
Date Rec/Extracted: 10/20/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Methanol
Extraction Ratio: 7.11g:10ml
Final Vol: NA
Dilution: 70.3
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.095	U	56-23-5	Carbon Tetrachloride	0.095	U
79-34-5	1,1,2,2-Tetrachloroethane	0.095	U	108-90-7	Chlorobenzene	0.095	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.095	U	75-00-3	Chloroethane	0.095	U
79-00-5	1,1,2-Trichloroethane	0.095	U	67-66-3	Chloroform	0.19	U
75-34-3	1,1-Dichloroethane	0.095	U	74-87-3	Chloromethane	0.095	U
75-35-4	1,1-Dichloroethene	0.095	U	156-59-2	cis-1,2-Dichloroethene	0.095	U
87-61-6	1,2,3-Trichlorobenzene	0.095	U	10061-01-5	cis-1,3-Dichloropropene	0.095	U
120-82-1	1,2,4-Trichlorobenzene	0.095	U	110-82-7	Cyclohexane	0.095	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.095	U	124-48-1	Dibromochloromethane	0.095	U
106-93-4	1,2-Dibromoethane	0.095	U	75-71-8	Dichlorodifluoromethane	0.095	U
95-50-1	1,2-Dichlorobenzene	0.095	U	100-41-4	Ethylbenzene	0.095	U
107-06-2	1,2-Dichloroethane	0.061	U	98-82-8	Isopropylbenzene	0.095	U
78-87-5	1,2-Dichloropropane	0.095	U	79601-23-1	m&p-Xylenes	0.095	U
541-73-1	1,3-Dichlorobenzene	0.095	U	79-20-9	Methyl Acetate	0.095	U
106-46-7	1,4-Dichlorobenzene	0.095	U	108-87-2	Methylcyclohexane	0.095	U
123-91-1	1,4-Dioxane	4.8	U	75-09-2	Methylene Chloride	0.095	U
78-93-3	2-Butanone	0.095	U	1634-04-4	Methyl-t-butyl ether	0.048	U
591-78-6	2-Hexanone	0.095	U	95-47-6	o-Xylene	0.095	U
108-10-1	4-Methyl-2-Pentanone	0.095	U	100-42-5	Styrene	0.095	U
67-64-1	Acetone	0.48	U	75-65-0	t-Butyl Alcohol	0.48	U
107-02-8	Acrolein	0.48	U	**127-18-4**	**Tetrachloroethene**	**0.095**	**0.74**
107-13-1	Acrylonitrile	0.095	U	108-88-3	Toluene	0.095	U
71-43-2	Benzene	0.048	U	156-60-5	trans-1,2-Dichloroethene	0.095	U
74-97-5	Bromochloromethane	0.095	U	10061-02-6	trans-1,3-Dichloropropene	0.095	U
75-27-4	Bromodichloromethane	0.095	U	79-01-6	Trichloroethene	0.095	U
75-25-2	Bromoform	0.095	U	75-69-4	Trichlorofluoromethane	0.095	U
74-83-9	Bromomethane	0.095	U	75-01-4	Vinyl Chloride	0.095	U
75-15-0	Carbon Disulfide	0.095	U	1330-20-7	Xylenes (Total)	0.095	U

Worksheet #: 615317

Total Target Concentration 0.74

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD26756-001 Operator : JR Qt Meth : 2M_A1021.M
Data File: 2M158625.D Sam Mult : 1 Vial# : 13 Qt On : 10/25/21 09:37
Acq On : 10/23/21 02:53 Misc : M,MEXT!2 Qt Upd On: 10/22/21 09:34

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-2221\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.092	96	360974	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	300181	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.025	152	173829	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	99951	28.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.63%			
39) 1,2-Dichloroethane-d4	4.903	67	44190	27.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.33%			
66) Toluene-d8	5.952	98	362518	30.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.97%			
76) Bromofluorobenzene	7.366	174	157155	27.80	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.67%			
Target Compounds						Qvalue
65) Tetrachloroethene	6.287	164	27783	7.8277	ug/l	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

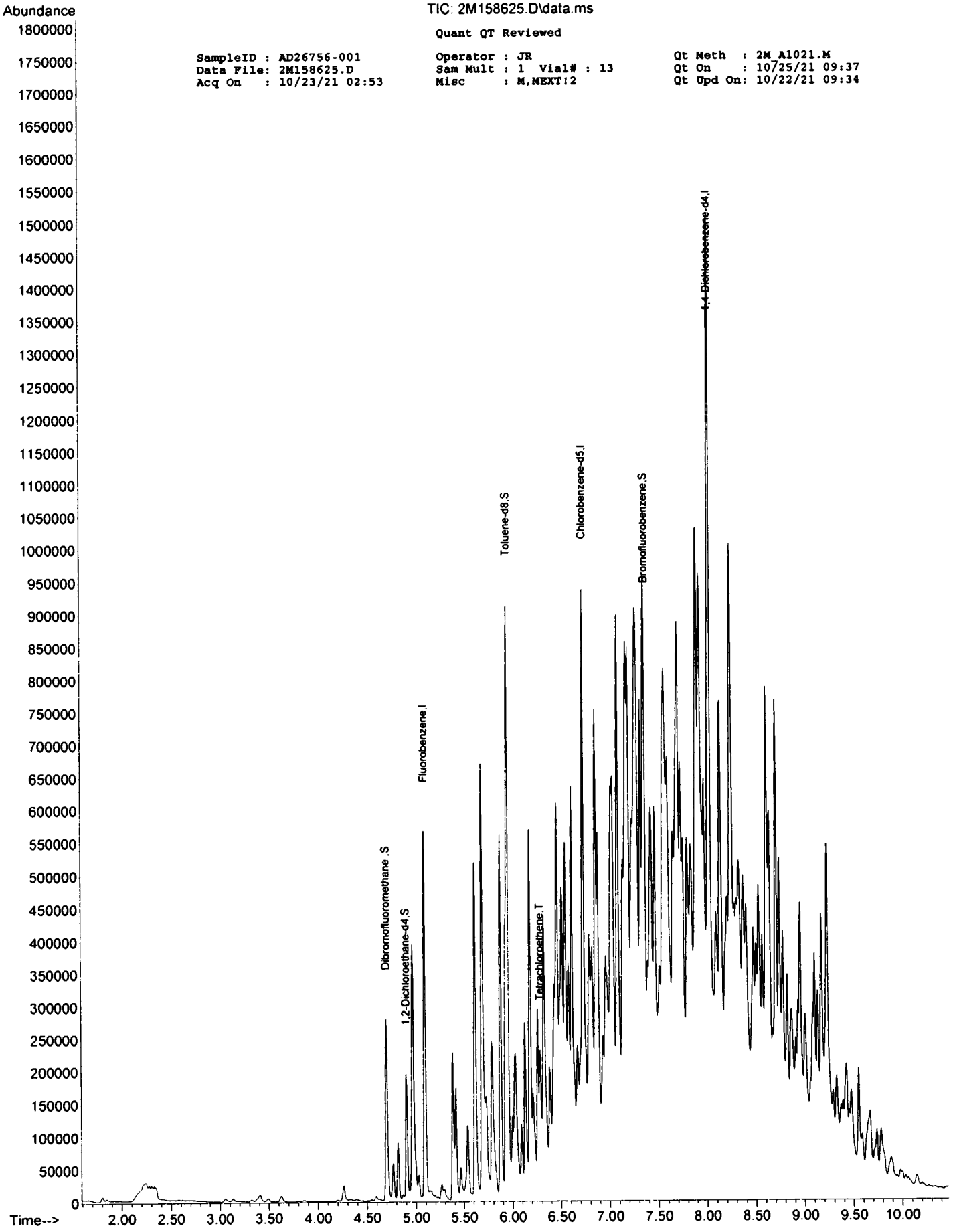
TIC: 2M158625.D\data.ms

Quant QT Reviewed

SampleID : AD26756-001
Data File: 2M158625.D
Acq On : 10/23/21 02:53

Operator : JR
Sam Mult : 1 Vial# : 13
Misc : M,MEXT!2

Qt Meth : 2M_A1021.M
Qt On : 10/25/21 09:37
Qt Upd On: 10/22/21 09:34



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26756-002
Client Id: SB-007SS (4-6)
Data File: 6M146392.D
Analysis Date: 10/21/21 22:13
Date Rec/Extracted: 10/20/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.05g
Final Vol: NA
Dilution: 0.990
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.00056	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0022	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	**75-09-2**	**Methylene Chloride**	**0.0022**	**0.0034**
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	75-65-0	t-Butyl Alcohol	0.011	U
107-02-8	Acrolein	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
107-13-1	Acrylonitrile	0.0022	U	108-88-3	Toluene	0.0011	U
71-43-2	Benzene	0.0011	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
74-97-5	Bromochloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	79-01-6	Trichloroethene	0.0022	U
75-25-2	Bromoform	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
75-15-0	Carbon Disulfide	0.0038	U	1330-20-7	Xylenes (Total)	0.0011	U

Worksheet #: 615317

Total Target Concentration 0.0034

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

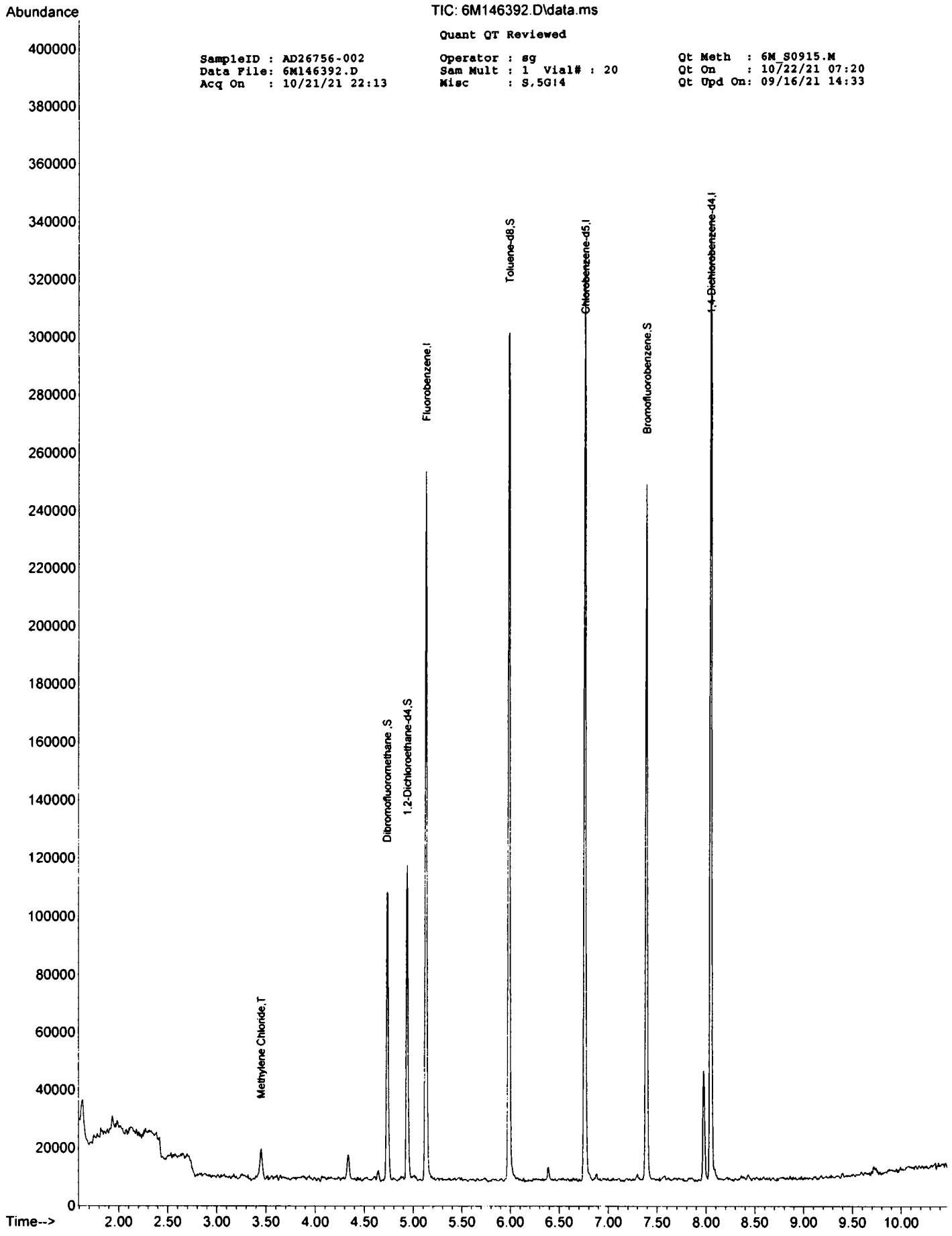
Quantitation Report (QT Reviewed)

SampleID : AD26756-002 Operator : sg Qt Meth : 6M_S0915.M
Data File: 6M146392.D Sam Mult : 1 Vial# : 20 Qt On : 10/22/21 07:20
Acq On : 10/21/21 22:13 Misc : S,5G!4 Qt Upd On: 09/16/21 14:33

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-21-21\
Qt Path : G:\GcMsData\2021\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.129	96	126272	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.763	117	110860	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.050	152	59514	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.733	111	38421	32.45	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.17%			
39) 1,2-Dichloroethane-d4	4.940	67	23305	33.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.47%			
66) Toluene-d8	5.989	98	123806	27.76	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.53%			
76) Bromofluorobenzene	7.391	174	41578	28.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.43%			
Target Compounds						Qvalue
15) Methylene Chloride	3.453	84	3236	3.0220	ug/l	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M146392.D\data.ms
Quant QT Reviewed
SampleID : AD26756-002
Data File: 6M146392.D
Acq On : 10/21/21 22:13
Operator : sg
Sam Mult : 1 Vial# : 20
Misc : S,5G!4
Qt Meth : 6M_S0915.M
Qt On : 10/22/21 07:20
Qt Upd On: 09/16/21 14:33
Methylene Chloride,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M158620.D
Analysis Date: 10/23/21 01:15
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Methanol
Extraction Ratio: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.10	U	56-23-5	Carbon Tetrachloride	0.10	U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	U	108-90-7	Chlorobenzene	0.10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.10	U	75-00-3	Chloroethane	0.10	U
79-00-5	1,1,2-Trichloroethane	0.10	U	67-66-3	Chloroform	0.20	U
75-34-3	1,1-Dichloroethane	0.10	U	74-87-3	Chloromethane	0.10	U
75-35-4	1,1-Dichloroethene	0.10	U	156-59-2	cis-1,2-Dichloroethene	0.10	U
87-61-6	1,2,3-Trichlorobenzene	0.10	U	10061-01-5	cis-1,3-Dichloropropene	0.10	U
120-82-1	1,2,4-Trichlorobenzene	0.10	U	110-82-7	Cyclohexane	0.10	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.10	U	124-48-1	Dibromochloromethane	0.10	U
106-93-4	1,2-Dibromoethane	0.10	U	75-71-8	Dichlorodifluoromethane	0.10	U
95-50-1	1,2-Dichlorobenzene	0.10	U	100-41-4	Ethylbenzene	0.10	U
107-06-2	1,2-Dichloroethane	0.064	U	98-82-8	Isopropylbenzene	0.10	U
78-87-5	1,2-Dichloropropane	0.10	U	79601-23-1	m&p-Xylenes	0.10	U
541-73-1	1,3-Dichlorobenzene	0.10	U	79-20-9	Methyl Acetate	0.10	U
106-46-7	1,4-Dichlorobenzene	0.10	U	108-87-2	Methylcyclohexane	0.10	U
123-91-1	1,4-Dioxane	5.0	U	75-09-2	Methylene Chloride	0.10	U
78-93-3	2-Butanone	0.10	U	1634-04-4	Methyl-t-butyl ether	0.050	U
591-78-6	2-Hexanone	0.10	U	95-47-6	o-Xylene	0.10	U
108-10-1	4-Methyl-2-Pentanone	0.10	U	100-42-5	Styrene	0.10	U
67-64-1	Acetone	0.50	U	75-65-0	t-Butyl Alcohol	0.50	U
107-02-8	Acrolein	0.50	U	127-18-4	Tetrachloroethene	0.10	U
107-13-1	Acrylonitrile	0.10	U	108-88-3	Toluene	0.10	U
71-43-2	Benzene	0.050	U	156-60-5	trans-1,2-Dichloroethene	0.10	U
74-97-5	Bromochloromethane	0.10	U	10061-02-6	trans-1,3-Dichloropropene	0.10	U
75-27-4	Bromodichloromethane	0.10	U	79-01-6	Trichloroethene	0.10	U
75-25-2	Bromoform	0.10	U	75-69-4	Trichlorofluoromethane	0.10	U
74-83-9	Bromomethane	0.10	U	75-01-4	Vinyl Chloride	0.10	U
75-15-0	Carbon Disulfide	0.10	U				

Worksheet #: 615317

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

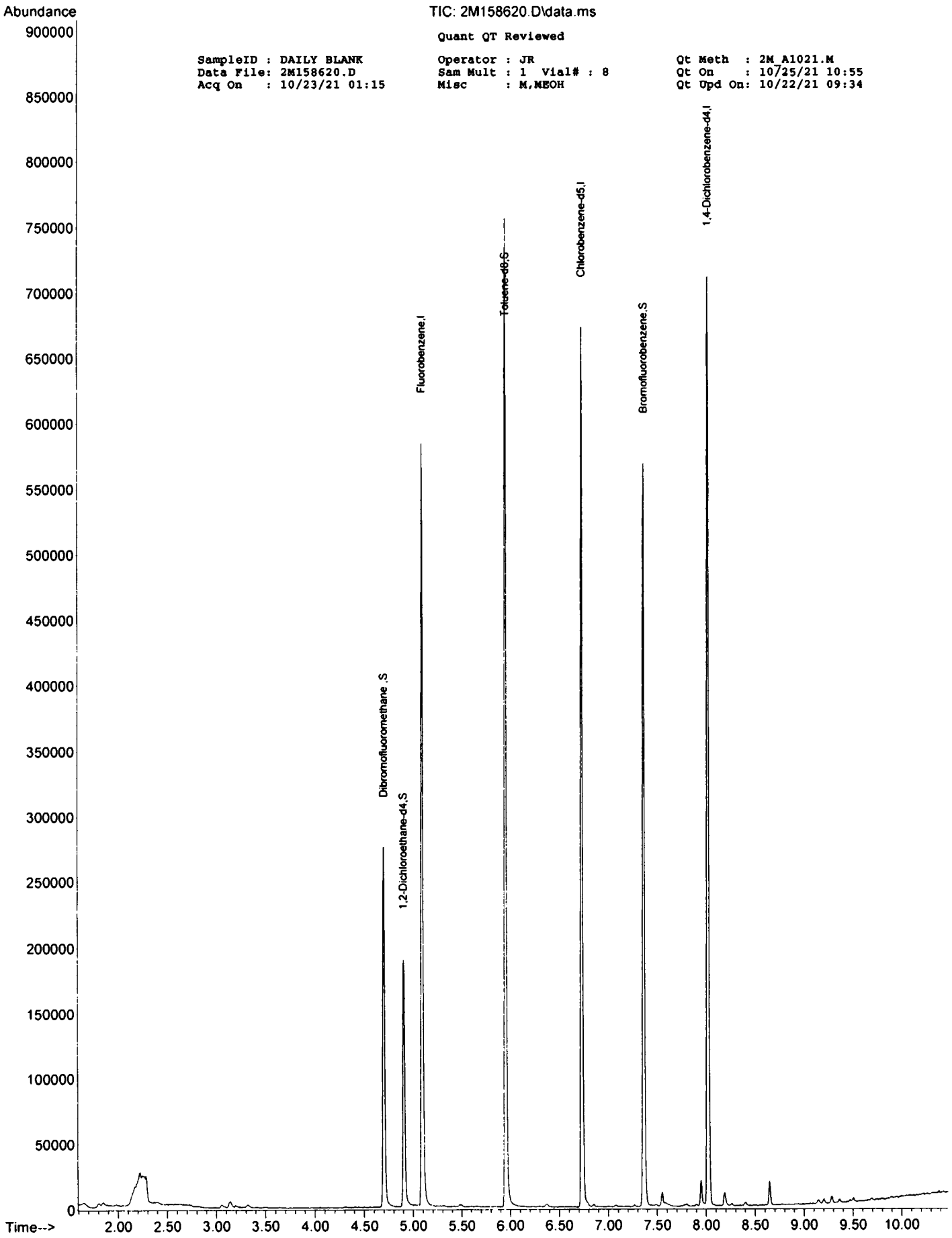
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : JR Qt Meth : 2M_A1021.M
Data File: 2M158620.D Sam Mult : 1 Vial# : 8 Qt On : 10/25/21 10:55
Acq On : 10/23/21 01:15 Misc : M,MEOH Qt Upd On: 10/22/21 09:34

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-2221\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.093	96	367980	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	308036	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	177264	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	104116	29.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.70%			
39) 1,2-Dichloroethane-d4	4.904	67	45823	27.57	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.90%			
66) Toluene-d8	5.952	98	355688	28.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.53%			
76) Bromofluorobenzene	7.367	174	166819	28.94	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.47%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M158620.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M158620.D
Acq On : 10/23/21 01:15
Operator : JR
Sam Mult : 1 Vial# : 8
Misc : M,MEOH
Qt Meth : 2M_A1021.M
Qt On : 10/25/21 10:55
Qt Upd On: 10/22/21 09:34
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M146370.D
Analysis Date: 10/21/21 14:36
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 615317

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

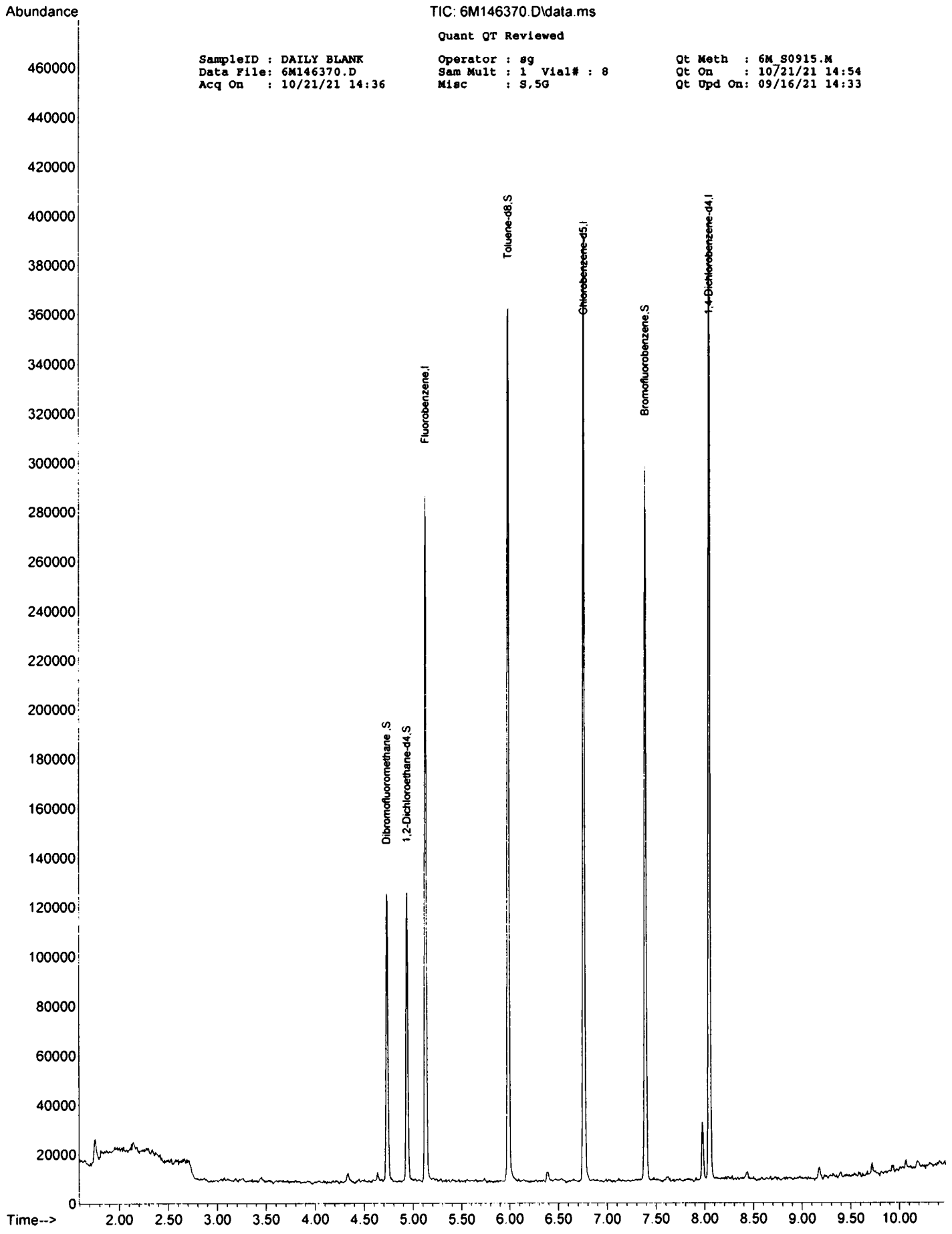
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : sg Qt Meth : 6M_S0915.M
Data File: 6M146370.D Sam Mult : 1 Vial# : 8 Qt On : 10/21/21 14:54
Acq On : 10/21/21 14:36 Misc : S,5G Qt Upd On: 09/16/21 14:33

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-21-21\
Qt Path : G:\GcMsData\2021\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.129	96	147851	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.763	117	133413	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.049	152	67787	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.733	111	45357	32.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.07%			
39) 1,2-Dichloroethane-d4	4.940	67	25768	31.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.30%			
66) Toluene-d8	5.989	98	147924	27.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.87%			
76) Bromofluorobenzene	7.391	174	50341	30.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.37%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M146370.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 6M146370.D
Acq On : 10/21/21 14:36
Operator : sg
Sam Mult : 1 Vial# : 8
Misc : S,5G
Qt Meth : 6M_S0915.M
Qt On : 10/21/21 14:54
Qt Upd On: 09/16/21 14:33
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2M158620.D	DAILY BLANK	M	10/23/21 01:15	1		97	92	97	96		
6M146370.D	DAILY BLANK	S	10/21/21 14:36	1		109	104	92	100		
2M158625.D	AD26756-001	M	10/23/21 02:53	1		95	90	101	93		
6M146392.D	AD26756-002	S	10/21/21 22:13	1		108	110	93	94		
2M158626.D	MBS97044	M	10/23/21 03:12	1		98	91	95	98		
2M158628.D	AD26755-001(MS)	M	10/23/21 03:52	1		97	91	95	98		
2M158629.D	AD26755-001(MSD)	M	10/23/21 04:11	1		97	91	97	101		
2M158649.D	AD26755-001	M	10/23/21 10:45	1		97	108	95	99		
6M146371.D	MBS97020	S	10/21/21 14:57	1		101	93	100	101		
6M146372.D	AD26688-007(MS)	S	10/21/21 15:18	1		105	101	98	101		
6M146373.D	AD26688-007(MSD)	S	10/21/21 15:39	1		103	98	101	104		
6M146374.D	AD26688-007	S	10/21/21 15:59	1		107	103	97	103		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97020

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M146371.D	MBS97020	10/21/2021 2:57:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	58.5071	0	50	117	20	130
Dichlorodifluoromethane	1	104.5255	0	50	209*	20	130
Chloromethane	1	55.5523	0	50	111	20	130
Bromomethane	1	48.3491	0	50	97	20	130
Vinyl Chloride	1	59.4087	0	50	119	20	130
Chloroethane	1	59.9028	0	50	120	20	130
Trichlorofluoromethane	1	62.4969	0	50	125	20	130
Ethyl ether	1	46.4635	0	50	93	50	130
Furan	1	50.3306	0	50	101	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	52.0551	0	50	104	50	130
Methylene Chloride	1	45.8965	0	50	92	50	130
Acrolein	1	232.2696	0	200	116	20	130
Acrylonitrile	1	45.9692	0	50	92	20	130
Iodomethane	1	37.4258	0	50	75	50	130
Acetone	1	253.0125	0	200	127	20	130
Carbon Disulfide	1	44.7598	0	50	90	50	130
t-Butyl Alcohol	1	259.9727	0	200	130	20	130
n-Hexane	1	47.701	0	50	95	50	130
Di-isopropyl-ether	1	39.2556	0	50	79	50	130
1,1-Dichloroethene	1	52.9749	0	50	106	50	130
Methyl Acetate	1	43.1221	0	50	86	50	130
Methyl-t-butyl ether	1	43.0065	0	50	86	50	130
1,1-Dichloroethane	1	45.5082	0	50	91	50	130
trans-1,2-Dichloroethene	1	46.8949	0	50	94	50	130
Ethyl-t-butyl ether	1	42.709	0	50	85	50	130
cis-1,2-Dichloroethene	1	45.0647	0	50	90	50	130
Bromochloromethane	1	42.1897	0	50	84	50	130
2,2-Dichloropropane	1	38.3113	0	50	77	50	130
Ethyl acetate	1	44.183	0	50	88	50	130
1,4-Dioxane	1	2747.289	0	2500	110	50	130
1,1-Dichloropropene	1	47.8024	0	50	96	50	130
Chloroform	1	45.3719	0	50	91	50	130
Cyclohexane	1	44.6912	0	50	89	50	130
1,2-Dichloroethane	1	43.7458	0	50	87	50	130
2-Butanone	1	43.9423	0	50	88	20	130
1,1,1-Trichloroethane	1	47.3269	0	50	95	50	130
Carbon Tetrachloride	1	47.4514	0	50	95	50	130
Vinyl Acetate	1	40.653	0	50	81	50	130
Bromodichloromethane	1	41.4867	0	50	83	50	130
Methylcyclohexane	1	46.205	0	50	92	50	130
Dibromomethane	1	43.6204	0	50	87	50	130
1,2-Dichloropropane	1	43.2265	0	50	86	50	130
Trichloroethene	1	46.9838	0	50	94	50	130
Benzene	1	46.1523	0	50	92	50	130
tert-Amyl methyl ether	1	43.029	0	50	86	50	130
Iso-propylacetate	1	42.0648	0	50	84	50	130
Methyl methacrylate	1	41.2878	0	50	83	50	130
Dibromochloromethane	1	41.3686	0	50	83	50	130
2-Chloroethylvinylether	1	40.4435	0	50	81	50	130
cis-1,3-Dichloropropene	1	41.671	0	50	83	50	130
trans-1,3-Dichloropropene	1	43.5422	0	50	87	50	130
Ethyl methacrylate	1	40.162	0	50	80	50	130
1,1,2-Trichloroethane	1	41.5293	0	50	83	50	130
1,2-Dibromoethane	1	40.0992	0	50	80	50	130
1,3-Dichloropropane	1	41.313	0	50	83	50	130
4-Methyl-2-Pentanone	1	43.2035	0	50	86	20	130
2-Hexanone	1	44.6883	0	50	89	20	130
Tetrachloroethene	1	41.0023	0	50	82	50	130
Toluene	1	41.8995	0	50	84	50	130
1,1,1,2-Tetrachloroethane	1	40.4704	0	50	81	50	130
Chlorobenzene	1	39.7464	0	50	79	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97020

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	40.3597	0	50	81	50	130
n-Amyl acetate	1	43.1199	0	50	86	50	130
Bromoform	**1**	**42.1729**	**0**	**50**	**84**	**20**	**130**
Ethylbenzene	**1**	**43.0248**	**0**	**50**	**86**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**41.4871**	**0**	**50**	**83**	**50**	**130**
Styrene	**1**	**40.6836**	**0**	**50**	**81**	**50**	**130**
m&p-Xylenes	**1**	**86.4985**	**0**	**100**	**86**	**50**	**130**
o-Xylene	**1**	**41.6666**	**0**	**50**	**83**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	43.424	0	50	87	20	130
1,3-Dichlorobenzene	**1**	**38.6887**	**0**	**50**	**77**	**50**	**130**
1,4-Dichlorobenzene	**1**	**36.7589**	**0**	**50**	**74**	**50**	**130**
1,2-Dichlorobenzene	**1**	**36.7762**	**0**	**50**	**74**	**50**	**130**
Isopropylbenzene	**1**	**42.316**	**0**	**50**	**85**	**50**	**130**
Cyclohexanone	1	287.1854	0	250	115	50	130
Camphene	1	40.9468	0	50	82	50	130
1,2,3-Trichloropropane	1	42.1011	0	50	84	50	130
2-Chlorotoluene	1	39.5663	0	50	79	50	130
p-Ethyltoluene	1	38.3801	0	50	77	50	130
4-Chlorotoluene	1	40.1868	0	50	80	50	130
n-Propylbenzene	1	42.5025	0	50	85	50	130
Bromobenzene	1	40.0527	0	50	80	50	130
1,3,5-Trimethylbenzene	1	40.6194	0	50	81	50	130
Butyl methacrylate	1	41.5334	0	50	83	50	130
t-Butylbenzene	1	40.0634	0	50	80	50	130
1,2,4-Trimethylbenzene	1	40.7506	0	50	82	50	130
sec-Butylbenzene	1	42.5273	0	50	85	50	130
4-Isopropyltoluene	1	39.7496	0	50	79	50	130
n-Butylbenzene	1	41.3896	0	50	83	50	130
p-Diethylbenzene	1	37.2228	0	50	74	50	130
1,2,4,5-Tetramethylbenzene	1	35.0136	0	50	70	50	130
1,2-Dibromo-3-Chloropropane	**1**	**43.6329**	**0**	**50**	**87**	**50**	**130**
Camphor	1	414.5631	0	500	83	50	130
Hexachlorobutadiene	1	37.2247	0	50	74	50	130
1,2,4-Trichlorobenzene	**1**	**36.676**	**0**	**50**	**73**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**35.6445**	**0**	**50**	**71**	**50**	**130**
Naphthalene	1	32.824	0	50	66	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158626.D	MBS97044	10/23/2021 3:12:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.108	0	20	96	50	150
Dichlorodifluoromethane	1	17.8355	0	20	89	50	150
Chloromethane	1	22.3474	0	20	112	50	150
Bromomethane	1	16.5727	0	20	83	50	150
Vinyl Chloride	1	21.9382	0	20	110	50	150
Chloroethane	1	12.8175	0	20	64	50	150
Trichlorofluoromethane	1	21.5441	0	20	108	50	150
Ethyl ether	1	18.9288	0	20	95	50	150
Furan	1	19.53	0	20	98	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.1614	0	20	111	50	150
Methylene Chloride	1	17.8407	0	20	89	70	130
Acrolein	1	84.9348	0	100	85	50	150
Acrylonitrile	1	15.9524	0	20	80	50	150
Iodomethane	1	10.6802	0	20	53	50	150
Acetone	1	69.3365	0	100	69	50	150
Carbon Disulfide	1	18.0048	0	20	90	50	150
t-Butyl Alcohol	1	83.6852	0	100	84	50	150
n-Hexane	1	20.5565	0	20	103	70	130
Di-isopropyl-ether	1	17.1118	0	20	86	70	130
1,1-Dichloroethene	1	18.8511	0	20	94	70	130
Methyl Acetate	1	18.6001	0	20	93	50	150
Methyl-t-butyl ether	1	17.4304	0	20	87	70	130
1,1-Dichloroethane	1	17.444	0	20	87	70	130
trans-1,2-Dichloroethene	1	18.5714	0	20	93	70	130
Ethyl-t-butyl ether	1	17.0773	0	20	85	70	130
cis-1,2-Dichloroethene	1	17.3136	0	20	87	70	130
Bromochloromethane	1	16.748	0	20	84	70	130
2,2-Dichloropropane	1	17.2672	0	20	86	70	130
Ethyl acetate	1	16.7684	0	20	84	50	150
1,4-Dioxane	1	865.901	0	1000	87	50	150
1,1-Dichloropropene	1	18.5894	0	20	93	70	130
Chloroform	1	17.9467	0	20	90	70	130
Cyclohexane	1	19.5968	0	20	98	70	130
1,2-Dichloroethane	1	16.3856	0	20	82	70	130
2-Butanone	1	14.8347	0	20	74	50	150
1,1,1-Trichloroethane	1	18.0099	0	20	90	70	130
Carbon Tetrachloride	1	17.7628	0	20	89	50	150
Vinyl Acetate	1	15.1157	0	20	76	50	150
Bromodichloromethane	1	16.6189	0	20	83	70	130
Methylcyclohexane	1	20.627	0	20	103	70	130
Dibromomethane	1	18.1032	0	20	91	70	130
1,2-Dichloropropane	1	17.6171	0	20	88	70	130
Trichloroethene	1	19.1857	0	20	96	70	130
Benzene	1	18.7923	0	20	94	70	130
tert-Amyl methyl ether	1	16.9158	0	20	85	70	130
Iso-propylacetate	1	15.7684	0	20	79	70	130
Methyl methacrylate	1	15.164	0	20	76	70	130
Dibromochloromethane	1	17.0899	0	20	85	70	130
2-Chloroethylvinylether	1	16.3335	0	20	82	70	130
cis-1,3-Dichloropropene	1	16.725	0	20	84	70	130
trans-1,3-Dichloropropene	1	16.5508	0	20	83	70	130
Ethyl methacrylate	1	15.0503	0	20	75	70	130
1,1,2-Trichloroethane	1	18.7004	0	20	94	70	130
1,2-Dibromoethane	1	17.9515	0	20	90	70	130
1,3-Dichloropropane	1	17.8188	0	20	89	70	130
4-Methyl-2-Pentanone	1	15.3592	0	20	77	50	150
2-Hexanone	1	16.7011	0	20	84	50	150
Tetrachloroethene	1	19.6449	0	20	98	50	150
Toluene	1	18.4336	0	20	92	70	130
1,1,1,2-Tetrachloroethane	1	18.1463	0	20	91	70	130
Chlorobenzene	1	19.0369	0	20	95	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97044

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	17.4947	0	20	87	70	130
n-Amyl acetate	1	17.4189	0	20	87	70	130
Bromoform	**1**	**16.3341**	**0**	**20**	**82**	**70**	**130**
Ethylbenzene	**1**	**19.374**	**0**	**20**	**97**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**18.0212**	**0**	**20**	**90**	**70**	**130**
Styrene	**1**	**18.4852**	**0**	**20**	**92**	**70**	**130**
m&p-Xylenes	**1**	**39.2608**	**0**	**40**	**98**	**70**	**130**
o-Xylene	**1**	**18.6384**	**0**	**20**	**93**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	15.6151	0	20	78	50	150
1,3-Dichlorobenzene	**1**	**19.5539**	**0**	**20**	**98**	**70**	**130**
1,4-Dichlorobenzene	**1**	**19.2815**	**0**	**20**	**96**	**70**	**130**
1,2-Dichlorobenzene	**1**	**18.786**	**0**	**20**	**94**	**70**	**130**
Isopropylbenzene	**1**	**19.2244**	**0**	**20**	**96**	**70**	**130**
Cyclohexanone	1	86.9237	0	100	87	50	150
Camphene	1	18.9701	0	20	95	70	130
1,2,3-Trichloropropane	1	16.3679	0	20	82	70	130
2-Chlorotoluene	1	18.9215	0	20	95	70	130
p-Ethyltoluene	1	17.9209	0	20	90	70	130
4-Chlorotoluene	1	18.5345	0	20	93	70	130
n-Propylbenzene	1	19.0696	0	20	95	70	130
Bromobenzene	1	17.4998	0	20	87	70	130
1,3,5-Trimethylbenzene	1	21.1534	0	20	106	70	130
Butyl methacrylate	1	18.2966	0	20	91	70	130
t-Butylbenzene	1	19.4876	0	20	97	70	130
1,2,4-Trimethylbenzene	1	19.0317	0	20	95	70	130
sec-Butylbenzene	1	19.7079	0	20	99	70	130
4-Isopropyltoluene	1	20.1465	0	20	101	70	130
n-Butylbenzene	1	19.9611	0	20	100	70	130
p-Diethylbenzene	1	19.8131	0	20	99	70	130
1,2,4,5-Tetramethylbenzene	1	18.631	0	20	93	70	130
1,2-Dibromo-3-Chloropropane	**1**	**16.3089**	**0**	**20**	**82**	**50**	**150**
Camphor	1	161.8987	0	200	81	20	150
Hexachlorobutadiene	1	19.5804	0	20	98	50	150
1,2,4-Trichlorobenzene	**1**	**18.8408**	**0**	**20**	**94**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**17.4096**	**0**	**20**	**87**	**70**	**130**
Naphthalene	1	17.7091	0	20	89	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97020

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M146372.D	AD26688-007(MS)	10/21/2021 3:18:00 PM
Non Spike(If applicable):	6M146374.D	AD26688-007	10/21/2021 3:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	37.3645	0	50	75	20	130
Dichlorodifluoromethane	1	112.3233	0	50	225*	20	130
Chloromethane	1	64.2159	0	50	128	20	130
Bromomethane	1	56.9999	0	50	114	20	130
Vinyl Chloride	1	65.3709	0	50	131*	20	130
Chloroethane	1	65.6496	0	50	131*	20	130
Trichlorofluoromethane	1	69.5266	0	50	139*	20	130
Ethyl ether	1	57.4901	0	50	115	50	130
Furan	1	57.0213	0	50	114	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	53.5541	0	50	107	50	130
Methylene Chloride	1	51.5247	0	50	103	50	130
Acrolein	1	161.4979	0	200	81	20	130
Acrylonitrile	1	49.8537	0	50	100	20	130
Iodomethane	1	40.0772	0	50	80	50	130
Acetone	1	279.2747	0	200	140*	20	130
Carbon Disulfide	1	44.7173	0	50	89	50	130
t-Butyl Alcohol	1	308.8944	0	200	154*	20	130
n-Hexane	1	41.1881	0	50	82	50	130
Di-isopropyl-ether	1	47.3549	0	50	95	50	130
1,1-Dichloroethene	1	56.5983	0	50	113	50	130
Methyl Acetate	1	69.7937	0	50	140*	50	130
Methyl-t-butyl ether	1	54.6969	0	50	109	50	130
1,1-Dichloroethane	1	51.6078	0	50	103	50	130
trans-1,2-Dichloroethene	1	51.2624	0	50	103	50	130
Ethyl-t-butyl ether	1	53.4339	0	50	107	50	130
cis-1,2-Dichloroethene	1	50.0907	0	50	100	50	130
Bromochloromethane	1	50.1408	0	50	100	50	130
2,2-Dichloropropane	1	45.1273	0	50	90	50	130
Ethyl acetate	1	31.1464	0	50	62	50	130
1,4-Dioxane	1	3115.346	0	2500	125	50	130
1,1-Dichloropropene	1	48.8058	0	50	98	50	130
Chloroform	1	50.7066	0	50	101	50	130
Cyclohexane	1	40.989	0	50	82	50	130
1,2-Dichloroethane	1	50.687	0	50	101	50	130
2-Butanone	1	59.0491	0	50	118	20	130
1,1,1-Trichloroethane	1	50.4682	0	50	101	50	130
Carbon Tetrachloride	1	48.232	0	50	96	50	130
Vinyl Acetate	1	35.7392	0	50	71	50	130
Bromodichloromethane	1	49.1992	0	50	98	50	130
Methylcyclohexane	1	40.3218	0	50	81	50	130
Dibromomethane	1	51.3458	0	50	103	50	130
1,2-Dichloropropane	1	46.7404	0	50	93	50	130
Trichloroethene	1	46.6828	0	50	93	50	130
Benzene	1	50.9136	0	50	102	50	130
tert-Amyl methyl ether	1	54.4181	0	50	109	50	130
Iso-propylacetate	1	36.0542	0	50	72	50	130
Methyl methacrylate	1	59.212	0	50	118	50	130
Dibromochloromethane	1	46.9552	0	50	94	50	130
2-Chloroethylvinylether	1	68.2151	14.7811	50	107	50	130
cis-1,3-Dichloropropene	1	47.3306	0	50	95	50	130
trans-1,3-Dichloropropene	1	47.1354	0	50	94	50	130
Ethyl methacrylate	1	34.7257	0	50	69	50	130
1,1,2-Trichloroethane	1	46.9743	0	50	94	50	130
1,2-Dibromoethane	1	46.4801	0	50	93	50	130
1,3-Dichloropropane	1	46.8144	0	50	94	50	130
4-Methyl-2-Pentanone	1	52.1781	0	50	104	20	130
2-Hexanone	1	48.4131	0	50	97	20	130
Tetrachloroethene	1	38.6041	0	50	77	50	130
Toluene	1	43.2166	0	50	86	50	130
1,1,1,2-Tetrachloroethane	1	43.2722	0	50	87	50	130
Chlorobenzene	1	40.1144	0	50	80	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97020

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	28.9102	0	50	58	50	130
n-Amyl acetate	1	24.7836	0	50	50	50	130
Bromoform	**1**	**46.3717**	**0**	**50**	**93**	**20**	**130**
Ethylbenzene	**1**	**40.3255**	**0**	**50**	**81**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**47.5038**	**0**	**50**	**95**	**50**	**130**
Styrene	**1**	**39.2911**	**0**	**50**	**79**	**50**	**130**
m&p-Xylenes	**1**	**82.4723**	**0**	**100**	**82**	**50**	**130**
o-Xylene	**1**	**40.3248**	**0**	**50**	**81**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	40.301	0	50	81	20	130
1,3-Dichlorobenzene	**1**	**33.1465**	**0**	**50**	**66**	**50**	**130**
1,4-Dichlorobenzene	**1**	**33.0168**	**0**	**50**	**66**	**50**	**130**
1,2-Dichlorobenzene	**1**	**33.4307**	**0**	**50**	**67**	**50**	**130**
Isopropylbenzene	**1**	**37.6063**	**0**	**50**	**75**	**50**	**130**
Cyclohexanone	1	326.0463	0	250	130	50	130
Camphene	1	31.1163	0	50	62	50	130
1,2,3-Trichloropropane	1	46.1551	0	50	92	50	130
2-Chlorotoluene	1	36.2715	0	50	73	50	130
p-Ethyltoluene	1	32.8047	0	50	66	50	130
4-Chlorotoluene	1	34.9471	0	50	70	50	130
n-Propylbenzene	1	36.2895	0	50	73	50	130
Bromobenzene	1	38.5704	0	50	77	50	130
1,3,5-Trimethylbenzene	1	36.018	0	50	72	50	130
Butyl methacrylate	1	32.2037	0	50	64	50	130
t-Butylbenzene	1	34.6316	0	50	69	50	130
1,2,4-Trimethylbenzene	1	35.7993	0	50	72	50	130
sec-Butylbenzene	1	32.9804	0	50	66	50	130
4-Isopropyltoluene	1	30.9286	0	50	62	50	130
n-Butylbenzene	1	30.5377	0	50	61	50	130
p-Diethylbenzene	1	29.046	0	50	58	50	130
1,2,4,5-Tetramethylbenzene	1	26.3235	0	50	53	50	130
1,2-Dibromo-3-Chloropropane	**1**	**45.8993**	**0**	**50**	**92**	**50**	**130**
Camphor	1	530.3648	21.7185	500	102	50	130
Hexachlorobutadiene	1	22.5476	0	50	45 *	50	130
1,2,4-Trichlorobenzene	**1**	**27.3915**	**0**	**50**	**55**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**26.4319**	**0**	**50**	**53**	**50**	**130**
Naphthalene	1	30.1646	1.116	50	58	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97020

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M146373.D	AD26688-007(MSD)	10/21/2021 3:39:00 PM
Non Spike(If applicable):	6M146374.D	AD26688-007	10/21/2021 3:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	35.6509	0	50	71	20	130
Dichlorodifluoromethane	1	92.8983	0	50	186*	20	130
Chloromethane	1	52.222	0	50	104	20	130
Bromomethane	1	46.2444	0	50	92	20	130
Vinyl Chloride	1	53.4145	0	50	107	20	130
Chloroethane	1	52.6172	0	50	105	20	130
Trichlorofluoromethane	1	58.1563	0	50	116	20	130
Ethyl ether	1	45.6553	0	50	91	50	130
Furan	1	45.6247	0	50	91	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	43.4091	0	50	87	50	130
Methylene Chloride	1	42.5711	0	50	85	50	130
Acrolein	1	118.9615	0	200	59	20	130
Acrylonitrile	1	39.7687	0	50	80	20	130
Iodomethane	1	33.7992	0	50	68	50	130
Acetone	1	228.6092	0	200	114	20	130
Carbon Disulfide	1	37.5583	0	50	75	50	130
t-Butyl Alcohol	1	254.0222	0	200	127	20	130
n-Hexane	1	32.3834	0	50	65	50	130
Di-isopropyl-ether	1	37.8991	0	50	76	50	130
1,1-Dichloroethene	1	46.5598	0	50	93	50	130
Methyl Acetate	1	61.8053	0	50	124	50	130
Methyl-t-butyl ether	1	43.4078	0	50	87	50	130
1,1-Dichloroethane	1	42.6793	0	50	85	50	130
trans-1,2-Dichloroethene	1	42.6113	0	50	85	50	130
Ethyl-t-butyl ether	1	42.5466	0	50	85	50	130
cis-1,2-Dichloroethene	1	39.9234	0	50	80	50	130
Bromochloromethane	1	40.0169	0	50	80	50	130
2,2-Dichloropropane	1	34.2234	0	50	68	50	130
Ethyl acetate	1	22.9399	0	50	46*	50	130
1,4-Dioxane	1	2667.991	0	2500	107	50	130
1,1-Dichloropropene	1	39.7454	0	50	79	50	130
Chloroform	1	41.1915	0	50	82	50	130
Cyclohexane	1	34.3908	0	50	69	50	130
1,2-Dichloroethane	1	40.9072	0	50	82	50	130
2-Butanone	1	46.9899	0	50	94	20	130
1,1,1-Trichloroethane	1	42.2747	0	50	85	50	130
Carbon Tetrachloride	1	40.0465	0	50	80	50	130
Vinyl Acetate	1	27.6877	0	50	55	50	130
Bromodichloromethane	1	39.9328	0	50	80	50	130
Methylcyclohexane	1	32.2099	0	50	64	50	130
Dibromomethane	1	41.0219	0	50	82	50	130
1,2-Dichloropropane	1	38.5219	0	50	77	50	130
Trichloroethene	1	38.8148	0	50	78	50	130
Benzene	1	41.2991	0	50	83	50	130
tert-Amyl methyl ether	1	42.961	0	50	86	50	130
Iso-propylacetate	1	27.3937	0	50	55	50	130
Methyl methacrylate	1	49.4487	0	50	99	50	130
Dibromochloromethane	1	38.5347	0	50	77	50	130
2-Chloroethylvinylether	1	67.7891	14.7811	50	106	50	130
cis-1,3-Dichloropropene	1	38.0965	0	50	76	50	130
trans-1,3-Dichloropropene	1	37.4529	0	50	75	50	130
Ethyl methacrylate	1	26.3436	0	50	53	50	130
1,1,2-Trichloroethane	1	39.0039	0	50	78	50	130
1,2-Dibromoethane	1	38.4098	0	50	77	50	130
1,3-Dichloropropane	1	38.7266	0	50	77	50	130
4-Methyl-2-Pentanone	1	40.0459	0	50	80	20	130
2-Hexanone	1	38.6453	0	50	77	20	130
Tetrachloroethene	1	33.231	0	50	66	50	130
Toluene	1	36.3756	0	50	73	50	130
1,1,1,2-Tetrachloroethane	1	36.9256	0	50	74	50	130
Chlorobenzene	1	33.1745	0	50	66	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97020

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	21.1902	0	50	42*	50	130
n-Amyl acetate	1	16.1759	0	50	32*	50	130
Bromoform	**1**	**37.9957**	**0**	**50**	**76**	**20**	**130**
Ethylbenzene	**1**	**34.4283**	**0**	**50**	**69**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**40.7412**	**0**	**50**	**81**	**50**	**130**
Styrene	**1**	**33.6201**	**0**	**50**	**67**	**50**	**130**
m&p-Xylenes	**1**	**72.3513**	**0**	**100**	**72**	**50**	**130**
o-Xylene	**1**	**34.9886**	**0**	**50**	**70**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	33.3127	0	50	67	20	130
1,3-Dichlorobenzene	**1**	**29.2081**	**0**	**50**	**58**	**50**	**130**
1,4-Dichlorobenzene	**1**	**28.2245**	**0**	**50**	**56**	**50**	**130**
1,2-Dichlorobenzene	**1**	**28.8757**	**0**	**50**	**58**	**50**	**130**
Isopropylbenzene	**1**	**33.0804**	**0**	**50**	**66**	**50**	**130**
Cyclohexanone	1	298.6383	0	250	119	50	130
Camphene	1	26.5794	0	50	53	50	130
1,2,3-Trichloropropane	1	40.4293	0	50	81	50	130
2-Chlorotoluene	1	30.9648	0	50	62	50	130
p-Ethyltoluene	1	28.323	0	50	57	50	130
4-Chlorotoluene	1	31.3819	0	50	63	50	130
n-Propylbenzene	1	32.051	0	50	64	50	130
Bromobenzene	1	33.1564	0	50	66	50	130
1,3,5-Trimethylbenzene	1	31.717	0	50	63	50	130
Butyl methacrylate	1	0	0	50	0*	50	130
t-Butylbenzene	1	30.0826	0	50	60	50	130
1,2,4-Trimethylbenzene	1	31.0753	0	50	62	50	130
sec-Butylbenzene	1	29.108	0	50	58	50	130
4-Isopropyltoluene	1	26.1927	0	50	52	50	130
n-Butylbenzene	1	26.7878	0	50	54	50	130
p-Diethylbenzene	1	24.7556	0	50	50	50	130
1,2,4,5-Tetramethylbenzene	1	22.3658	0	50	45*	50	130
1,2-Dibromo-3-Chloropropane	**1**	**41.3775**	**0**	**50**	**83**	**50**	**130**
Camphor	1	462.2068	21.7185	500	88	50	130
Hexachlorobutadiene	1	18.7569	0	50	38*	50	130
1,2,4-Trichlorobenzene	**1**	**23.4513**	**0**	**50**	**47***	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**22.0041**	**0**	**50**	**44***	**50**	**130**
Naphthalene	1	25.5692	1.116	50	49*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS97020

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M146373.D	AD26688-007(MSD)	10/21/2021 3:39:00 PM
Duplicate(If applicable):	6M146372.D	AD26688-007(MS)	10/21/2021 3:18:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	35.6509	37.3645	4.7	30
Dichlorodifluoromethane	1	92.8983	112.3233	19	30
Chloromethane	1	52.222	64.2159	21	30
Bromomethane	1	46.2444	56.9999	21	30
Vinyl Chloride	1	53.4145	65.3709	20	40
Chloroethane	1	52.6172	65.6496	22	30
Trichlorofluoromethane	1	58.1563	69.5266	18	30
Ethyl ether	1	45.6553	57.4901	23	30
Furan	1	45.6247	57.0213	22	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	43.4091	53.5541	21	30
Methylene Chloride	1	42.5711	51.5247	19	30
Acrolein	1	118.9615	161.4979	30	30
Acrylonitrile	1	39.7687	49.8537	23	30
Iodomethane	1	33.7992	40.0772	17	30
Acetone	1	228.6092	279.2747	20	30
Carbon Disulfide	1	37.5583	44.7173	17	30
t-Butyl Alcohol	1	254.0222	308.8944	19	30
n-Hexane	1	32.3834	41.1881	24	30
Di-isopropyl-ether	1	37.8991	47.3549	22	30
1,1-Dichloroethene	1	46.5598	56.5983	19	40
Methyl Acetate	1	61.8053	69.7937	12	30
Methyl-t-butyl ether	1	43.4078	54.6969	23	30
1,1-Dichloroethane	1	42.6793	51.6078	19	40
trans-1,2-Dichloroethene	1	42.6113	51.2624	18	30
Ethyl-t-butyl ether	1	42.5466	53.4339	23	30
cis-1,2-Dichloroethene	1	39.9234	50.0907	23	30
Bromochloromethane	1	40.0169	50.1408	22	30
2,2-Dichloropropane	1	34.2234	45.1273	27	30
Ethyl acetate	1	22.9399	31.1464	30	30
1,4-Dioxane	1	2667.991	3115.346	15	30
1,1-Dichloropropene	1	39.7454	48.8058	20	30
Chloroform	1	41.1915	50.7066	21	40
Cyclohexane	1	34.3908	40.989	18	30
1,2-Dichloroethane	1	40.9072	50.687	21	40
2-Butanone	1	46.9899	59.0491	23	40
1,1,1-Trichloroethane	1	42.2747	50.4682	18	30
Carbon Tetrachloride	1	40.0465	48.232	19	40
Vinyl Acetate	1	27.6877	35.7392	25	30
Bromodichloromethane	1	39.9328	49.1992	21	30
Methylcyclohexane	1	32.2099	40.3218	22	30
Dibromomethane	1	41.0219	51.3458	22	30
1,2-Dichloropropane	1	38.5219	46.7404	19	30
Trichloroethene	1	38.8148	46.6828	18	40
Benzene	1	41.2991	50.9136	21	40
tert-Amyl methyl ether	1	42.961	54.4181	24	30
Iso-propylacetate	1	27.3937	36.0542	27	30
Methyl methacrylate	1	49.4487	59.212	18	30
Dibromochloromethane	1	38.5347	46.9552	20	30
2-Chloroethylvinylether	1	67.7891	68.2151	0.63	30
cis-1,3-Dichloropropene	1	38.0965	47.3306	22	30
trans-1,3-Dichloropropene	1	37.4529	47.1354	23	30
Ethyl methacrylate	1	26.3436	34.7257	27	30
1,1,2-Trichloroethane	1	39.0039	46.9743	19	30
1,2-Dibromoethane	1	38.4098	46.4801	19	30
1,3-Dichloropropane	1	38.7266	46.8144	19	30
4-Methyl-2-Pentanone	1	40.0459	52.1781	26	30
2-Hexanone	1	38.6453	48.4131	22	30
Tetrachloroethene	1	33.231	38.6041	15	40
Toluene	1	36.3756	43.2166	17	40
1,1,1,2-Tetrachloroethane	1	36.9256	43.2722	16	30
Chlorobenzene	1	33.1745	40.1144	19	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS97020

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	21.1902	28.9102	31*	30
n-Amyl acetate	1	16.1759	24.7836	42*	30
Bromoform	1	37.9957	46.3717	20	30
Ethylbenzene	1	34.4283	40.3255	16	30
1,1,2,2-Tetrachloroethane	1	40.7412	47.5038	15	30
Styrene	1	33.6201	39.2911	16	30
m&p-Xylenes	1	72.3513	82.4723	13	30
o-Xylene	1	34.9886	40.3248	14	30
trans-1,4-Dichloro-2-butene	1	33.3127	40.301	19	30
1,3-Dichlorobenzene	1	29.2081	33.1465	13	30
1,4-Dichlorobenzene	1	28.2245	33.0168	16	40
1,2-Dichlorobenzene	1	28.8757	33.4307	15	40
Isopropylbenzene	1	33.0804	37.6063	13	30
Cyclohexanone	1	298.6383	326.0463	8.8	30
Camphene	1	26.5794	31.1163	16	30
1,2,3-Trichloropropane	1	40.4293	46.1551	13	30
2-Chlorotoluene	1	30.9648	36.2715	16	30
p-Ethyltoluene	1	28.323	32.8047	15	30
4-Chlorotoluene	1	31.3819	34.9471	11	30
n-Propylbenzene	1	32.051	36.2895	12	40
Bromobenzene	1	33.1564	38.5704	15	30
1,3,5-Trimethylbenzene	1	31.717	36.018	13	30
Butyl methacrylate	1	0	32.2037	200*	30
t-Butylbenzene	1	30.0826	34.6316	14	30
1,2,4-Trimethylbenzene	1	31.0753	35.7993	14	30
sec-Butylbenzene	1	29.108	32.9804	12	40
4-Isopropyltoluene	1	26.1927	30.9286	17	30
n-Butylbenzene	1	26.7878	30.5377	13	30
p-Diethylbenzene	1	24.7556	29.046	16	30
1,2,4,5-Tetramethylbenzene	1	22.3658	26.3235	16	30
1,2-Dibromo-3-Chloropropane	1	41.3775	45.8993	10	30
Camphor	1	462.2068	530.3648	14	30
Hexachlorobutadiene	1	18.7569	22.5476	18	30
1,2,4-Trichlorobenzene	1	23.4513	27.3915	15	30
1,2,3-Trichlorobenzene	1	22.0041	26.4319	18	30
Naphthalene	1	25.5692	30.1646	16	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158628.D	AD26755-001(MS)	10/23/2021 3:52:00 AM
Non Spike(If applicable):	2M158649.D	AD26755-001	10/23/2021 10:45:00 A
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	22.2632	0	20	111	50	150
Dichlorodifluoromethane	1	19.8208	0	20	99	50	150
Chloromethane	1	23.7327	1.1227	20	113	50	150
Bromomethane	1	17.1728	3.4303	20	69	50	150
Vinyl Chloride	1	22.8356	0	20	114	50	150
Chloroethane	1	1.1317	0	20	5.7 *	50	150
Trichlorofluoromethane	1	22.8899	0	20	114	50	150
Ethyl ether	1	19.9692	0	20	100	50	150
Furan	1	20.6329	0	20	103	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.6985	0	20	118	50	150
Methylene Chloride	1	19.7197	0	20	99	70	130
Acrolein	1	87.1979	0	100	87	50	150
Acrylonitrile	1	18.3542	0	20	92	50	150
Iodomethane	1	11.1513	1.7183	20	47 *	50	150
Acetone	1	102.2459	0	100	102	50	150
Carbon Disulfide	1	19.7753	0	20	99	50	150
t-Butyl Alcohol	1	31.1463	9.0346	100	22 *	50	150
n-Hexane	1	22.6552	0	20	113	70	130
Di-isopropyl-ether	1	18.1826	0	20	91	70	130
1,1-Dichloroethene	1	22.4132	0	20	112	70	130
Methyl Acetate	1	23.4854	1.7787	20	109	50	150
Methyl-t-butyl ether	1	18.6901	0	20	93	70	130
1,1-Dichloroethane	1	18.4956	0	20	92	70	130
trans-1,2-Dichloroethene	1	20.1413	0	20	101	70	130
Ethyl-t-butyl ether	1	18.0309	0	20	90	70	130
cis-1,2-Dichloroethene	1	18.4524	0	20	92	70	130
Bromochloromethane	1	18.1189	0	20	91	70	130
2,2-Dichloropropane	1	17.8623	0	20	89	70	130
Ethyl acetate	1	28.1954	0	20	141	50	150
1,4-Dioxane	1	1060.355	0	1000	106	50	150
1,1-Dichloropropene	1	19.8226	0	20	99	70	130
Chloroform	1	19.0398	0	20	95	70	130
Cyclohexane	1	21.4218	0	20	107	70	130
1,2-Dichloroethane	1	17.1408	0	20	86	70	130
2-Butanone	1	0	0	20	0 *	50	150
1,1,1-Trichloroethane	1	18.8573	0	20	94	70	130
Carbon Tetrachloride	1	18.8918	0	20	94	50	150
Vinyl Acetate	1	14.5597	0	20	73	50	150
Bromodichloromethane	1	17.5936	0	20	88	70	130
Methylcyclohexane	1	22.933	0	20	115	70	130
Dibromomethane	1	19.5303	0	20	98	70	130
1,2-Dichloropropane	1	18.9991	0	20	95	70	130
Trichloroethene	1	20.6941	0	20	103	70	130
Benzene	1	19.9298	0	20	100	70	130
tert-Amyl methyl ether	1	18.3636	0	20	92	70	130
Iso-propylacetate	1	16.4848	0	20	82	70	130
Methyl methacrylate	1	16.5984	0	20	83	70	130
Dibromochloromethane	1	18.0612	0	20	90	70	130
2-Chloroethylvinylether	1	20.048	0	20	100	70	130
cis-1,3-Dichloropropene	1	18.0027	0	20	90	70	130
trans-1,3-Dichloropropene	1	17.4814	0	20	87	70	130
Ethyl methacrylate	1	16.5429	0	20	83	70	130
1,1,2-Trichloroethane	1	18.683	0	20	93	70	130
1,2-Dibromoethane	1	18.7433	0	20	94	70	130
1,3-Dichloropropane	1	18.5862	0	20	93	70	130
4-Methyl-2-Pentanone	1	15.9511	0	20	80	50	150
2-Hexanone	1	16.9601	0	20	85	50	150
Tetrachloroethene	1	20.7749	0	20	104	50	150
Toluene	1	19.7491	0	20	99	70	130
1,1,1,2-Tetrachloroethane	1	19.3407	0	20	97	70	130
Chlorobenzene	1	20.3355	0	20	102	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97044

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.7411	0	20	84	70	130
n-Amyl acetate	1	16.323	0	20	82	70	130
Bromoform	**1**	**17.3778**	**0**	**20**	**87**	**70**	**130**
Ethylbenzene	**1**	**19.8561**	**0**	**20**	**99**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**18.3732**	**0**	**20**	**92**	**70**	**130**
Styrene	**1**	**19.6923**	**0**	**20**	**98**	**70**	**130**
m&p-Xylenes	**1**	**41.3759**	**0**	**40**	**103**	**70**	**130**
o-Xylene	**1**	**19.8564**	**0**	**20**	**99**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	16.0309	0	20	80	50	150
1,3-Dichlorobenzene	**1**	**20.924**	**0**	**20**	**105**	**70**	**130**
1,4-Dichlorobenzene	**1**	**20.7915**	**0**	**20**	**104**	**70**	**130**
1,2-Dichlorobenzene	**1**	**20.7061**	**0**	**20**	**104**	**70**	**130**
Isopropylbenzene	**1**	**20.6986**	**0**	**20**	**103**	**70**	**130**
Cyclohexanone	1	132.3049	0	100	132	50	150
Camphene	1	21.6672	0	20	108	70	130
1,2,3-Trichloropropane	1	17.512	0	20	88	70	130
2-Chlorotoluene	1	20.1365	0	20	101	70	130
p-Ethyltoluene	1	18.9983	0	20	95	70	130
4-Chlorotoluene	1	19.8826	0	20	99	70	130
n-Propylbenzene	1	20.7798	0	20	104	70	130
Bromobenzene	1	18.4506	0	20	92	70	130
1,3,5-Trimethylbenzene	1	23.3632	0	20	117	70	130
Butyl methacrylate	1	17.5736	0	20	88	70	130
t-Butylbenzene	1	21.2731	0	20	106	70	130
1,2,4-Trimethylbenzene	1	20.6712	0	20	103	70	130
sec-Butylbenzene	1	22.1127	0	20	111	70	130
4-Isopropyltoluene	1	21.8334	0	20	109	70	130
n-Butylbenzene	1	22.0447	0	20	110	70	130
p-Diethylbenzene	1	22.1388	0	20	111	70	130
1,2,4,5-Tetramethylbenzene	1	20.6283	0	20	103	70	130
1,2-Dibromo-3-Chloropropane	**1**	**18.1252**	**0**	**20**	**91**	**50**	**150**
Camphor	1	185.9641	0	200	93	20	150
Hexachlorobutadiene	1	26.1309	0	20	131	50	150
1,2,4-Trichlorobenzene	**1**	**23.7425**	**0**	**20**	**119**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**23.5422**	**0**	**20**	**118**	**70**	**130**
Naphthalene	1	22.4634	3.8525	20	93	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158629.D	AD26755-001(MSD)	10/23/2021 4:11:00 AM
Non Spike(If applicable):	2M158649.D	AD26755-001	10/23/2021 10:45:00 A
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.8546	0	20	99	50	150
Dichlorodifluoromethane	1	18.1512	0	20	91	50	150
Chloromethane	1	22.6789	1.1227	20	108	50	150
Bromomethane	1	16.9358	3.4303	20	68	50	150
Vinyl Chloride	1	21.5325	0	20	108	50	150
Chloroethane	1	0	0	20	0*	50	150
Trichlorofluoromethane	1	21.153	0	20	106	50	150
Ethyl ether	1	18.9565	0	20	95	50	150
Furan	1	18.7809	0	20	94	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.2043	0	20	111	50	150
Methylene Chloride	1	18.2235	0	20	91	70	130
Acrolein	1	79.2291	0	100	79	50	150
Acrylonitrile	1	17.4933	0	20	87	50	150
Iodomethane	1	11.7413	1.7183	20	50	50	150
Acetone	1	83.0395	0	100	83	50	150
Carbon Disulfide	1	17.0703	0	20	85	50	150
t-Butyl Alcohol	1	27.311	9.0346	100	18*	50	150
n-Hexane	1	22.6424	0	20	113	70	130
Di-isopropyl-ether	1	16.9935	0	20	85	70	130
1,1-Dichloroethene	1	18.4098	0	20	92	70	130
Methyl Acetate	1	20.9107	1.7787	20	96	50	150
Methyl-t-butyl ether	1	17.3777	0	20	87	70	130
1,1-Dichloroethane	1	17.5111	0	20	88	70	130
trans-1,2-Dichloroethene	1	17.93	0	20	90	70	130
Ethyl-t-butyl ether	1	16.9551	0	20	85	70	130
cis-1,2-Dichloroethene	1	17.1199	0	20	86	70	130
Bromochloromethane	1	16.9263	0	20	85	70	130
2,2-Dichloropropane	1	16.4821	0	20	82	70	130
Ethyl acetate	1	26.7908	0	20	134	50	150
1,4-Dioxane	1	1031.985	0	1000	103	50	150
1,1-Dichloropropene	1	18.3692	0	20	92	70	130
Chloroform	1	17.3602	0	20	87	70	130
Cyclohexane	1	20.6568	0	20	103	70	130
1,2-Dichloroethane	1	16.1597	0	20	81	70	130
2-Butanone	1	0	0	20	0*	50	150
1,1,1-Trichloroethane	1	17.6801	0	20	88	70	130
Carbon Tetrachloride	1	17.7443	0	20	89	50	150
Vinyl Acetate	1	13.4448	0	20	67	50	150
Bromodichloromethane	1	16.5217	0	20	83	70	130
Methylcyclohexane	1	22.476	0	20	112	70	130
Dibromomethane	1	18.1133	0	20	91	70	130
1,2-Dichloropropane	1	17.7358	0	20	89	70	130
Trichloroethene	1	19.2337	0	20	96	70	130
Benzene	1	18.6218	0	20	93	70	130
tert-Amyl methyl ether	1	17.0399	0	20	85	70	130
Iso-propylacetate	1	16.0372	0	20	80	70	130
Methyl methacrylate	1	16.0253	0	20	80	70	130
Dibromochloromethane	1	17.2381	0	20	86	70	130
2-Chloroethylvinylether	1	20.6526	0	20	103	70	130
cis-1,3-Dichloropropene	1	17.0332	0	20	85	70	130
trans-1,3-Dichloropropene	1	16.7553	0	20	84	70	130
Ethyl methacrylate	1	15.3757	0	20	77	70	130
1,1,2-Trichloroethane	1	18.0682	0	20	90	70	130
1,2-Dibromoethane	1	18.1215	0	20	91	70	130
1,3-Dichloropropane	1	17.8942	0	20	89	70	130
4-Methyl-2-Pentanone	1	15.6706	0	20	78	50	150
2-Hexanone	1	16.3687	0	20	82	50	150
Tetrachloroethene	1	19.9558	0	20	100	50	150
Toluene	1	18.8822	0	20	94	70	130
1,1,1,2-Tetrachloroethane	1	18.3579	0	20	92	70	130
Chlorobenzene	1	19.3929	0	20	97	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS97044

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.3525	0	20	82	70	130
n-Amyl acetate	1	15.7445	0	20	79	70	130
Bromoform	**1**	**17.2942**	**0**	**20**	**86**	**70**	**130**
Ethylbenzene	**1**	**20.9132**	**0**	**20**	**105**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**17.8087**	**0**	**20**	**89**	**70**	**130**
Styrene	**1**	**19.4454**	**0**	**20**	**97**	**70**	**130**
m&p-Xylenes	**1**	**41.6547**	**0**	**40**	**104**	**70**	**130**
o-Xylene	**1**	**19.7475**	**0**	**20**	**99**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	15.7287	0	20	79	50	150
1,3-Dichlorobenzene	**1**	**20.8677**	**0**	**20**	**104**	**70**	**130**
1,4-Dichlorobenzene	**1**	**20.6163**	**0**	**20**	**103**	**70**	**130**
1,2-Dichlorobenzene	**1**	**20.7918**	**0**	**20**	**104**	**70**	**130**
Isopropylbenzene	**1**	**21.2168**	**0**	**20**	**106**	**70**	**130**
Cyclohexanone	1	136.8677	0	100	137	50	150
Camphene	1	23.0286	0	20	115	70	130
1,2,3-Trichloropropane	1	17.271	0	20	86	70	130
2-Chlorotoluene	1	20.7751	0	20	104	70	130
p-Ethyltoluene	1	19.5442	0	20	98	70	130
4-Chlorotoluene	1	18.9976	0	20	95	70	130
n-Propylbenzene	1	21.1893	0	20	106	70	130
Bromobenzene	1	18.7442	0	20	94	70	130
1,3,5-Trimethylbenzene	1	23.9093	0	20	120	70	130
Butyl methacrylate	1	17.4345	0	20	87	70	130
t-Butylbenzene	1	22.2864	0	20	111	70	130
1,2,4-Trimethylbenzene	1	21.0098	0	20	105	70	130
sec-Butylbenzene	1	22.7785	0	20	114	70	130
4-Isopropyltoluene	1	22.2292	0	20	111	70	130
n-Butylbenzene	1	22.2056	0	20	111	70	130
p-Diethylbenzene	1	23.015	0	20	115	70	130
1,2,4,5-Tetramethylbenzene	1	21.0376	0	20	105	70	130
1,2-Dibromo-3-Chloropropane	**1**	**17.7554**	**0**	**20**	**89**	**50**	**150**
Camphor	1	185.0606	0	200	93	20	150
Hexachlorobutadiene	1	23.9063	0	20	120	50	150
1,2,4-Trichlorobenzene	**1**	**23.9859**	**0**	**20**	**120**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**23.8531**	**0**	**20**	**119**	**70**	**130**
Naphthalene	1	21.62	3.8525	20	89	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS97044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M158629.D	AD26755-001(MSD)	10/23/2021 4:11:00 AM
Duplicate(If applicable):	2M158628.D	AD26755-001(MS)	10/23/2021 3:52:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	19.8546	22.2632	11	30
Dichlorodifluoromethane	1	18.1512	19.8208	8.8	30
Chloromethane	1	22.6789	23.7327	4.5	30
Bromomethane	1	16.9358	17.1728	1.4	30
Vinyl Chloride	1	21.5325	22.8356	5.9	40
Chloroethane	1	0	1.1317	200*	30
Trichlorofluoromethane	1	21.153	22.8899	7.9	30
Ethyl ether	1	18.9565	19.9692	5.2	30
Furan	1	18.7809	20.6329	9.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.2043	23.6985	6.5	30
Methylene Chloride	1	18.2235	19.7197	7.9	30
Acrolein	1	79.2291	87.1979	9.6	30
Acrylonitrile	1	17.4933	18.3542	4.8	30
Iodomethane	1	11.7413	11.1513	5.2	30
Acetone	1	83.0395	102.2459	21	30
Carbon Disulfide	1	17.0703	19.7753	15	30
t-Butyl Alcohol	1	27.311	31.1463	13	30
n-Hexane	1	22.6424	22.6552	0.06	30
Di-isopropyl-ether	1	16.9935	18.1826	6.8	30
1,1-Dichloroethene	1	18.4098	22.4132	20	40
Methyl Acetate	1	20.9107	23.4854	12	30
Methyl-t-butyl ether	1	17.3777	18.6901	7.3	30
1,1-Dichloroethane	1	17.5111	18.4956	5.5	40
trans-1,2-Dichloroethene	1	17.93	20.1413	12	30
Ethyl-t-butyl ether	1	16.9551	18.0309	6.1	30
cis-1,2-Dichloroethene	1	17.1199	18.4524	7.5	30
Bromochloromethane	1	16.9263	18.1189	6.8	30
2,2-Dichloropropane	1	16.4821	17.8623	8	30
Ethyl acetate	1	26.7908	28.1954	5.1	20
1,4-Dioxane	1	1031.985	1060.355	2.7	30
1,1-Dichloropropene	1	18.3692	19.8226	7.6	30
Chloroform	1	17.3602	19.0398	9.2	40
Cyclohexane	1	20.6568	21.4218	3.6	30
1,2-Dichloroethane	1	16.1597	17.1408	5.9	40
2-Butanone	1	0	0	NA	40
1,1,1-Trichloroethane	1	17.6801	18.8573	6.4	30
Carbon Tetrachloride	1	17.7443	18.8918	6.3	40
Vinyl Acetate	1	13.4448	14.5597	8	30
Bromodichloromethane	1	16.5217	17.5936	6.3	30
Methylcyclohexane	1	22.476	22.933	2	30
Dibromomethane	1	18.1133	19.5303	7.5	30
1,2-Dichloropropane	1	17.7358	18.9991	6.9	30
Trichloroethene	1	19.2337	20.6941	7.3	40
Benzene	1	18.6218	19.9298	6.8	40
tert-Amyl methyl ether	1	17.0399	18.3636	7.5	30
Iso-propylacetate	1	16.0372	16.4848	2.8	30
Methyl methacrylate	1	16.0253	16.5984	3.5	30
Dibromochloromethane	1	17.2381	18.0612	4.7	30
2-Chloroethylvinylether	1	20.6526	20.048	3	30
cis-1,3-Dichloropropene	1	17.0332	18.0027	5.5	30
trans-1,3-Dichloropropene	1	16.7553	17.4814	4.2	30
Ethyl methacrylate	1	15.3757	16.5429	7.3	30
1,1,2-Trichloroethane	1	18.0682	18.683	3.3	30
1,2-Dibromoethane	1	18.1215	18.7433	3.4	30
1,3-Dichloropropane	1	17.8942	18.5862	3.8	30
4-Methyl-2-Pentanone	1	15.6706	15.9511	1.8	30
2-Hexanone	1	16.3687	16.9601	3.5	30
Tetrachloroethene	1	19.9558	20.7749	4	40
Toluene	1	18.8822	19.7491	4.5	40
1,1,1,2-Tetrachloroethane	1	18.3579	19.3407	5.2	30
Chlorobenzene	1	19.3929	20.3355	4.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS97044

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	16.3525	16.7411	2.3	30
n-Amyl acetate	1	15.7445	16.323	3.6	30
Bromoform	1	17.2942	17.3778	0.48	30
Ethylbenzene	1	20.9132	19.8561	5.2	30
1,1,2,2-Tetrachloroethane	1	17.8087	18.3732	3.1	30
Styrene	1	19.4454	19.6923	1.3	30
m&p-Xylenes	1	41.6547	41.3759	0.67	30
o-Xylene	1	19.7475	19.8564	0.55	30
trans-1,4-Dichloro-2-butene	1	15.7287	16.0309	1.9	30
1,3-Dichlorobenzene	1	20.8677	20.924	0.27	30
1,4-Dichlorobenzene	1	20.6163	20.7915	0.85	40
1,2-Dichlorobenzene	1	20.7918	20.7061	0.41	40
Isopropylbenzene	1	21.2168	20.6986	2.5	30
Cyclohexanone	1	136.8677	132.3049	3.4	30
Camphene	1	23.0286	21.6672	6.1	30
1,2,3-Trichloropropane	1	17.271	17.512	1.4	30
2-Chlorotoluene	1	20.7751	20.1365	3.1	30
p-Ethyltoluene	1	19.5442	18.9983	2.8	30
4-Chlorotoluene	1	18.9976	19.8826	4.6	30
n-Propylbenzene	1	21.1893	20.7798	2	40
Bromobenzene	1	18.7442	18.4506	1.6	30
1,3,5-Trimethylbenzene	1	23.9093	23.3632	2.3	30
Butyl methacrylate	1	17.4345	17.5736	0.79	30
t-Butylbenzene	1	22.2864	21.2731	4.7	30
1,2,4-Trimethylbenzene	1	21.0098	20.6712	1.6	30
sec-Butylbenzene	1	22.7785	22.1127	3	40
4-Isopropyltoluene	1	22.2292	21.8334	1.8	30
n-Butylbenzene	1	22.2056	22.0447	0.73	30
p-Diethylbenzene	1	23.015	22.1388	3.9	30
1,2,4,5-Tetramethylbenzene	1	21.0376	20.6283	2	30
1,2-Dibromo-3-Chloropropane	1	17.7554	18.1252	2.1	30
Camphor	1	185.0606	185.9641	0.49	30
Hexachlorobutadiene	1	23.9063	26.1309	8.9	30
1,2,4-Trichlorobenzene	1	23.9859	23.7425	1	30
1,2,3-Trichlorobenzene	1	23.8531	23.5422	1.3	30
Naphthalene	1	21.62	22.4634	3.8	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M146370.D
Matrix: Soil

Blank Analysis Date: 10/21/21 14:36
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD26756-002	6M146392.D	10/21/21 22:13
AD26688-007	6M146374.D	10/21/21 15:59
AD26688-007(MSD	6M146373.D	10/21/21 15:39
AD26688-007(MS)	6M146372.D	10/21/21 15:18
MBS97020	6M146371.D	10/21/21 14:57

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M158620.D
Matrix: Methanol

Blank Analysis Date: 10/23/21 01:15
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD26756-001	2M158625.D	10/23/21 02:53
AD26755-001	2M158649.D	10/23/21 10:45
AD26755-001(MSD	2M158629.D	10/23/21 04:11
AD26755-001(MS)	2M158628.D	10/23/21 03:52
MBS97044	2M158626.D	10/23/21 03:12

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M144906.D
Analysis Date: 09/15/21 19:07
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.367 to 7.409 min

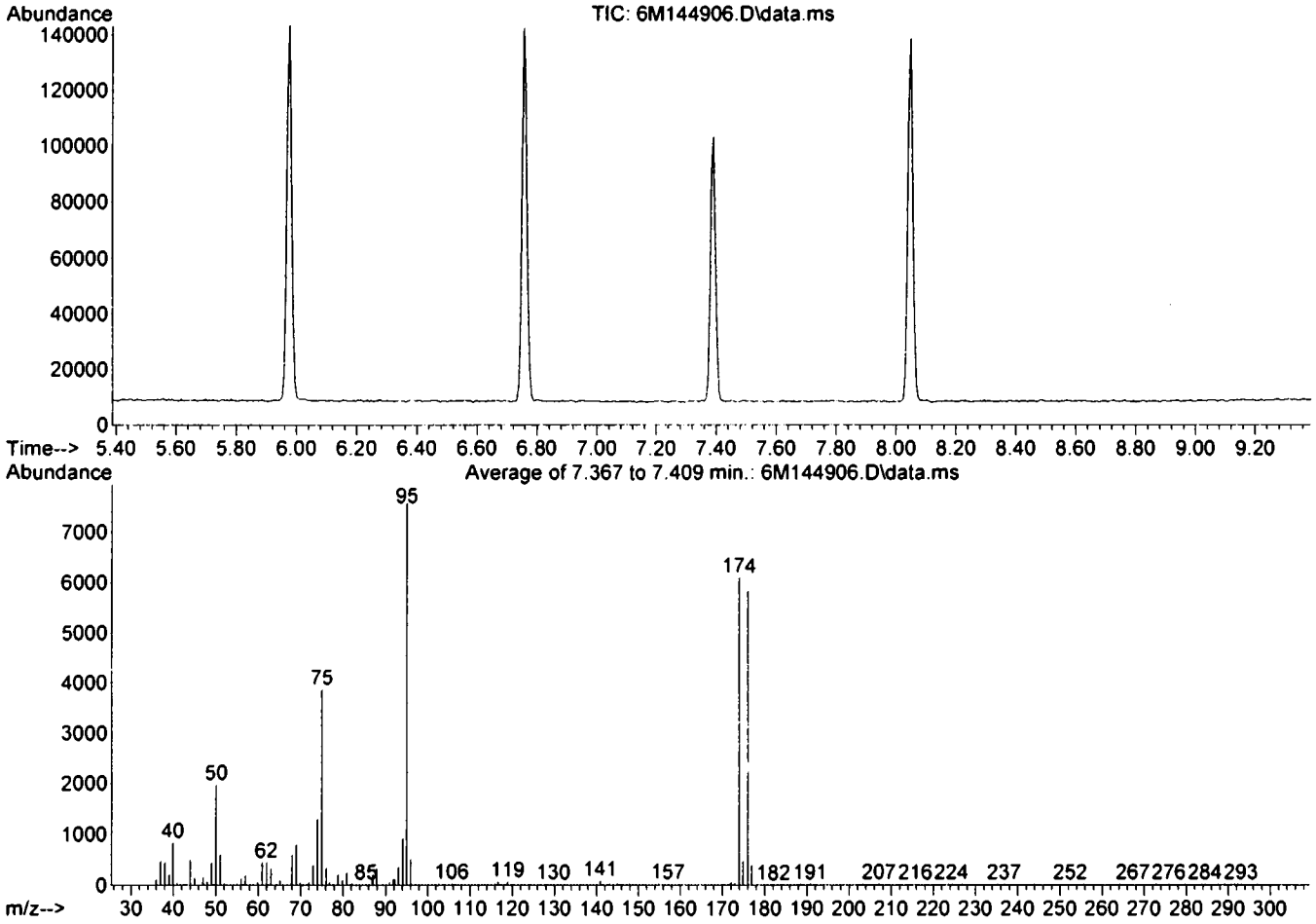
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	26.2	1981	PASS
75	95	30	60	51.2	3874	PASS
95	95	100	100	100.0	7571	PASS
96	95	5	9	6.8	513	PASS
173	174	0.00	2	0.6	36	PASS
174	95	50	100	80.7	6111	PASS
175	174	5	9	7.7	472	PASS
176	174	95	101	95.8	5854	PASS
177	176	5	9	6.7	395	PASS

Data File	Sample Number	Analysis Date:
6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13
6M144910.D	CAL @ 1 PPB	09/15/21 20:34
6M144911.D	CAL @ 2 PPB	09/15/21 20:55
6M144912.D	CAL @ 5 PPB	09/15/21 21:16
6M144913.D	CAL @ 20 PPB	09/15/21 21:36
6M144914.D	CAL @ 50 PPB	09/15/21 21:57
6M144915.D	CAL @ 500 PPB	09/15/21 22:18
6M144917.D	CAL @ 250 PPB	09/15/21 22:59
6M144919.D	CAL @ 100 PPB	09/15/21 23:40
6M144922.D	ICV	09/16/21 00:42

Data Path : G:\GcMsData\2021\GCMS_6\Data\09-15-21\
Data File : 6M144906.D
Acq On : 15 Sep 2021 19:07
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_6\MethodQt\6M_S0915.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 16 14:20:25 2021



Spectrum Information: Average of 7.367 to 7.409 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.2	1981	PASS
75	95	30	60	51.2	3874	PASS
95	95	100	100	100.0	7571	PASS
96	95	5	9	6.8	513	PASS
173	174	0.00	2	0.6	36	PASS
174	95	50	100	80.7	6111	PASS
175	174	5	9	7.7	472	PASS
176	174	95	101	95.8	5854	PASS
177	176	5	9	6.7	395	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 6M146363.D
Instrument: GCMS 6 **Analysis Date:** 10/21/21 12:17
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.379 to 7.397 min

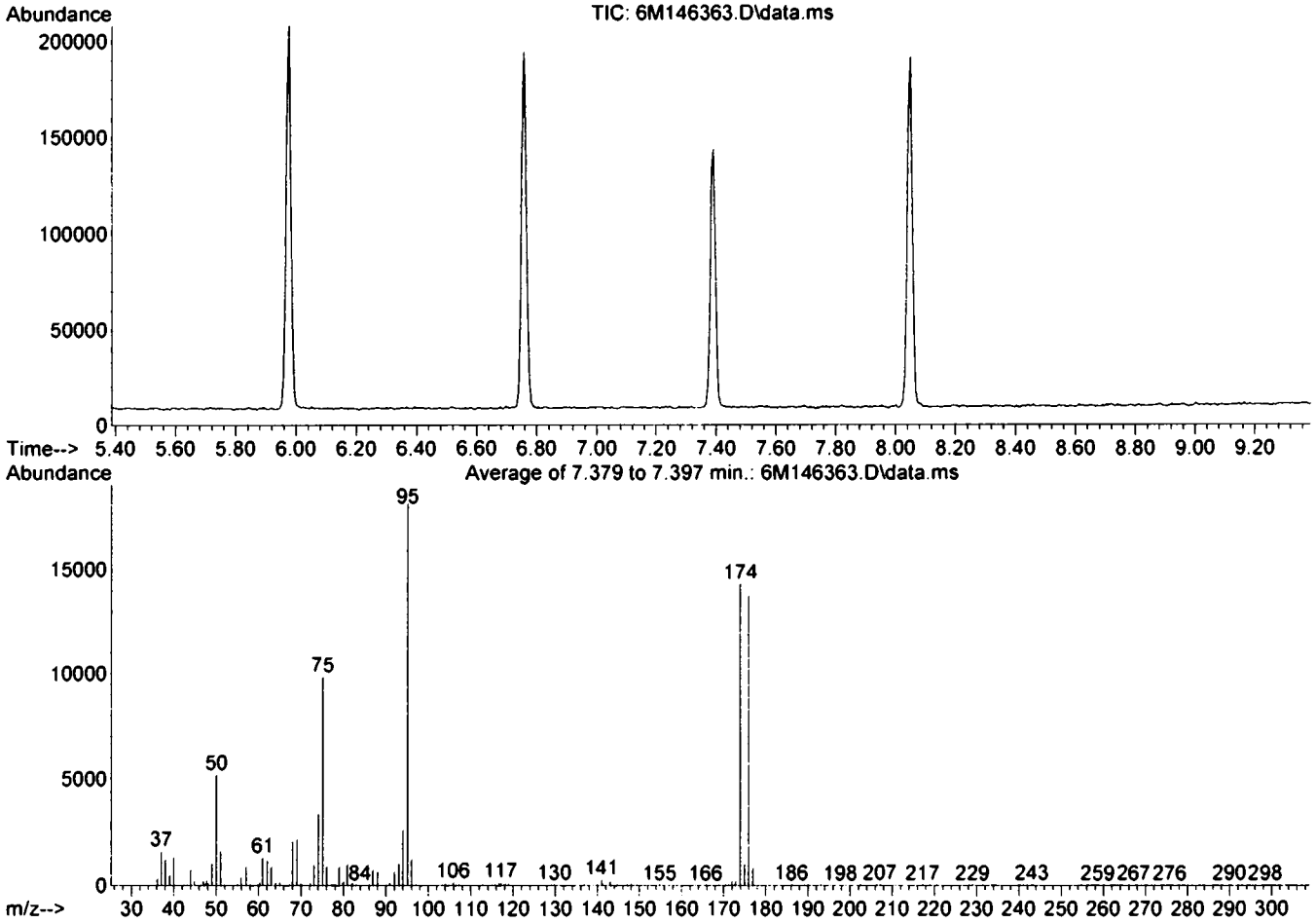
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	28.7	5208	PASS
75	95	30	60	54.4	9866	PASS
95	95	100	100	100.0	18121	PASS
96	95	5	9	6.9	1245	PASS
173	174	0.00	2	1.6	232	PASS
174	95	50	100	79.0	14316	PASS
175	174	5	9	7.2	1038	PASS
176	174	95	101	96.4	13802	PASS
177	176	5	9	6.3	872	PASS

Data File	Sample Number	Analysis Date:
6M146365.D	50 PPB	10/21/21 12:53
6M146366.D	CAL @ 50 PPB	10/21/21 13:13
6M146368.D	BLK	10/21/21 13:55
6M146369.D	BLK	10/21/21 14:16
6M146370.D	DAILY BLANK	10/21/21 14:36
6M146371.D	MBS97020	10/21/21 14:57
6M146372.D	AD26688-007(MS)	10/21/21 15:18
6M146373.D	AD26688-007(MSD	10/21/21 15:39
6M146374.D	AD26688-007	10/21/21 15:59
6M146375.D	BLK	10/21/21 16:20
6M146376.D	AD26794-001	10/21/21 16:41
6M146377.D	AD26794-002	10/21/21 17:02
6M146378.D	AD26794-003	10/21/21 17:22
6M146379.D	AD26794-004	10/21/21 17:43
6M146380.D	AD26795-001	10/21/21 18:04
6M146381.D	AD26796-002	10/21/21 18:25
6M146382.D	AD26767-001	10/21/21 18:46
6M146383.D	AD26767-002	10/21/21 19:06
6M146384.D	AD26755-002	10/21/21 19:27
6M146385.D	AD26755-001	10/21/21 19:48
6M146386.D	BLK	10/21/21 20:09
6M146387.D	AD26794-002	10/21/21 20:30
6M146388.D	AD26767-002	10/21/21 20:50
6M146389.D	AD26778-001	10/21/21 21:11
6M146390.D	AD26778-003	10/21/21 21:32
6M146391.D	AD26778-005	10/21/21 21:53
6M146392.D	AD26756-002	10/21/21 22:13
6M146393.D	AD26755-003	10/21/21 22:34
6M146394.D	AD26755-004	10/21/21 22:55
6M146395.D	BLK	10/21/21 23:16

Data Path : G:\GcMsData\2021\GCMS_6\Data\10-21-21\
Data File : 6M146363.D
Acq On : 21 Oct 2021 12:17
Operator : sg
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_6\MethodQt\6M_S0915.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 16 14:20:25 2021



Spectrum Information: Average of 7.379 to 7.397 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.7	5208	PASS
75	95	30	60	54.4	9866	PASS
95	95	100	100	100.0	18121	PASS
96	95	5	9	6.9	1245	PASS
173	174	0.00	2	1.6	232	PASS
174	95	50	100	79.0	14316	PASS
175	174	5	9	7.2	1038	PASS
176	174	95	101	96.4	13802	PASS
177	176	5	9	6.3	872	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 2M158536.D
Instrument: GCMS 2 **Analysis Date:** 10/21/21 12:37
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.342 to 7.354 min

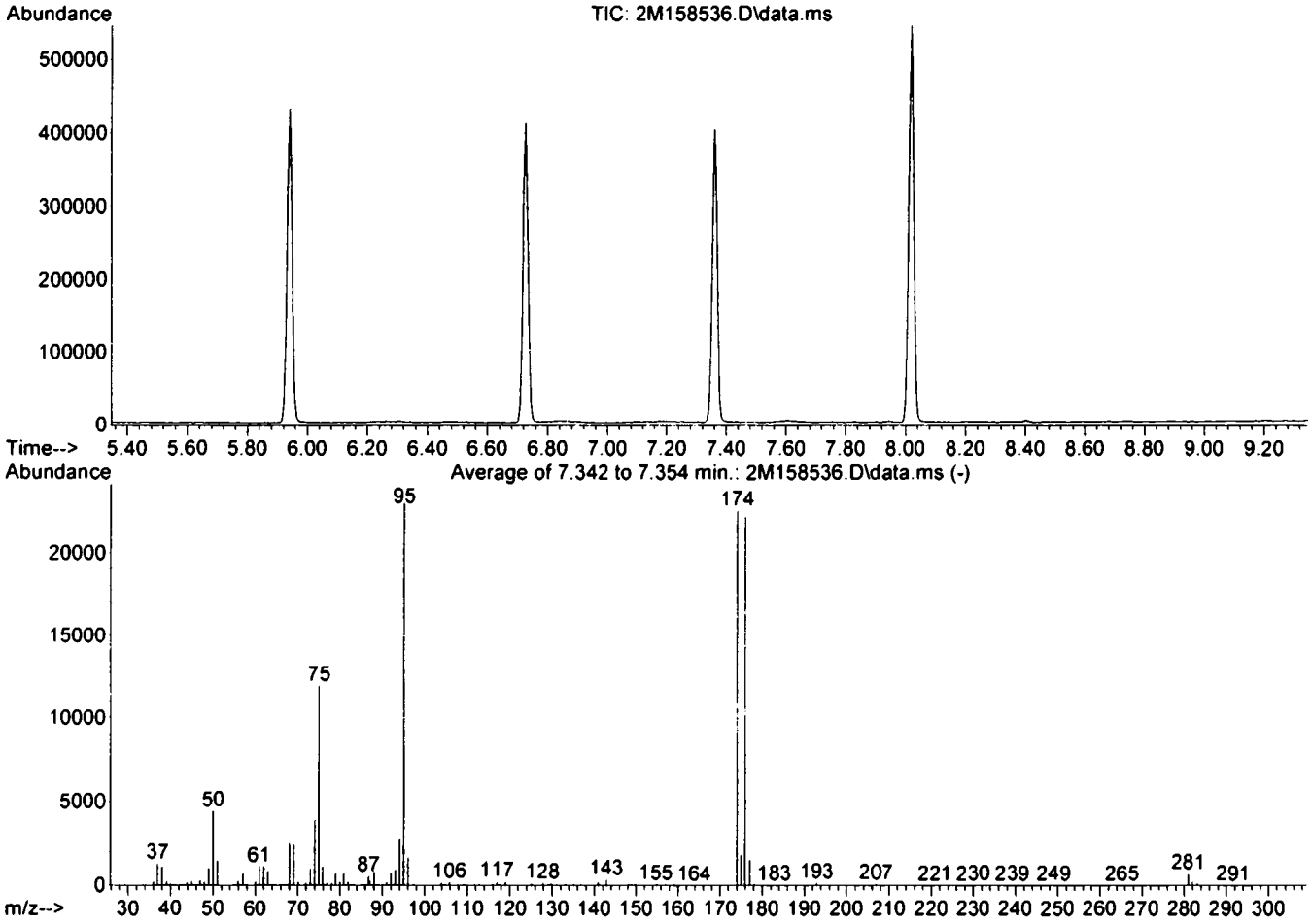
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.3	4433	PASS
75	95	30	60	52.0	11952	PASS
95	95	100	100	100.0	22982	PASS
96	95	5	9	7.2	1662	PASS
173	174	0.00	2	0.0	5	PASS
174	95	50	100	98.1	22556	PASS
175	174	5	9	8.1	1834	PASS
176	174	95	101	98.4	22188	PASS
177	176	5	9	6.9	1534	PASS

Data File	Sample Number	Analysis Date:
2M158540.D	CAL @ 0.5 PPB	10/21/21 13:51
2M158541.D	CAL @ 1 PPB	10/21/21 14:10
2M158542.D	CAL @ 5 PPB	10/21/21 14:30
2M158544.D	CAL @ 10 PPB	10/21/21 15:09
2M158546.D	CAL @ 20 PPB	10/21/21 15:49
2M158548.D	CAL @ 50 PPB	10/21/21 16:28
2M158551.D	CAL @ 100 PPB	10/21/21 17:27
2M158554.D	CAL @ 250 PPB	10/21/21 18:26
2M158557.D	CAL @ 500 PPB	10/21/21 19:25
2M158563.D	ICV	10/21/21 21:23
2M158566.D	STD2	10/21/21 22:21

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-21-21\
Data File : 2M158536.D
Acq On : 21 Oct 2021 12:37
Operator : JR
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A0928.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Sep 28 11:35:30 2021



Spectrum Information: Average of 7.342 to 7.354 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	4433	PASS
75	95	30	60	52.0	11952	PASS
95	95	100	100	100.0	22982	PASS
96	95	5	9	7.2	1662	PASS
173	174	0.00	2	0.0	5	PASS
174	95	50	100	98.1	22556	PASS
175	174	5	9	8.1	1834	PASS
176	174	95	101	98.4	22188	PASS
177	176	5	9	6.9	1534	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 2M158614.D
Instrument: GCMS 2 **Analysis Date:** 10/22/21 23:20
Method: EPA 8260D
Tune Scan/Time Range: Average of 7.348 to 7.354 min

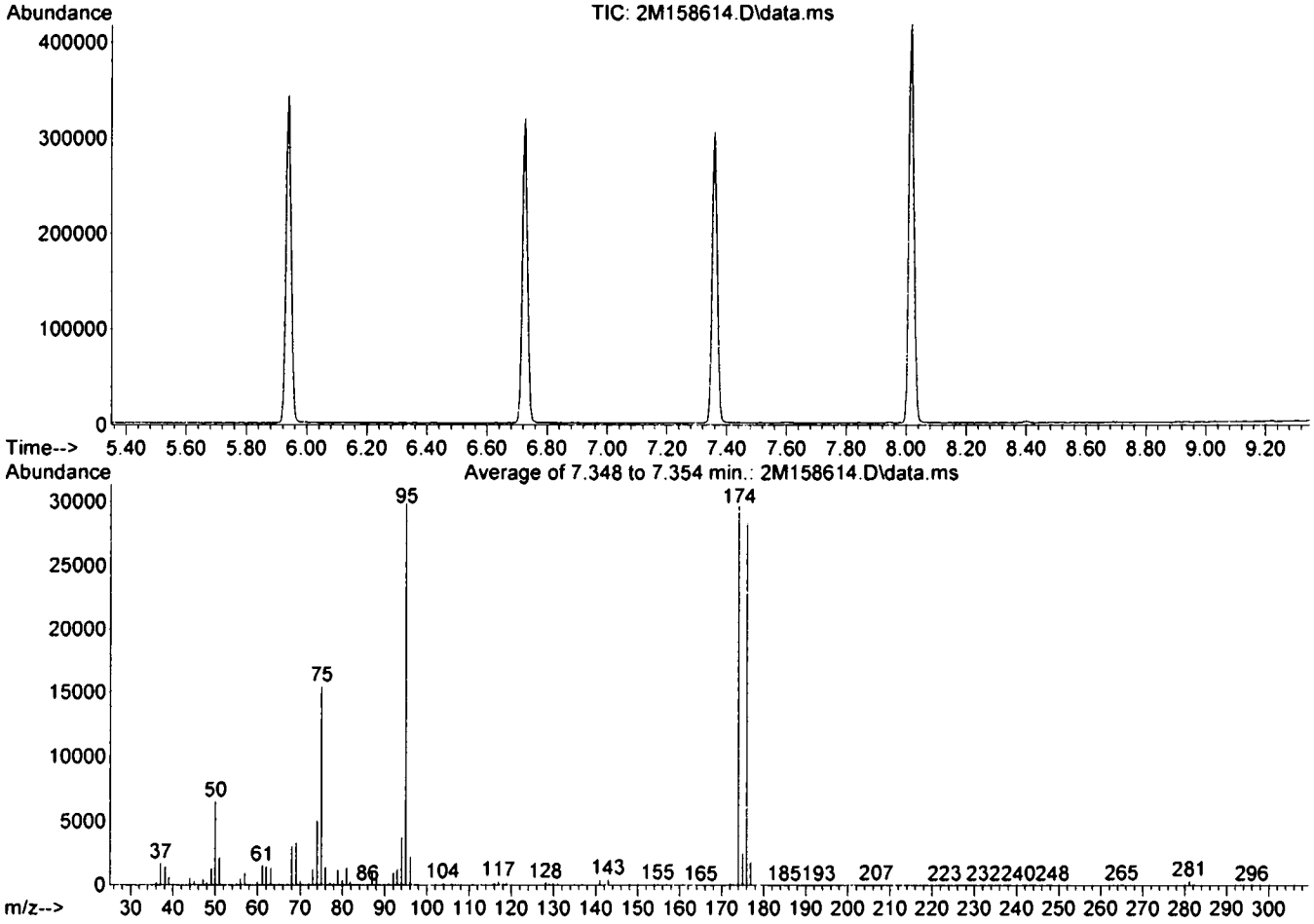
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.9	6560	PASS
75	95	30	60	51.8	15494	PASS
95	95	100	100	100.0	29888	PASS
96	95	5	9	7.6	2259	PASS
173	174	0.00	2	0.3	76	PASS
174	95	50	100	99.4	29715	PASS
175	174	5	9	8.6	2552	PASS
176	174	95	101	95.8	28464	PASS
177	176	5	9	6.5	1846	PASS

Data File	Sample Number	Analysis Date:
2M158615.D	CAL @ 20PPB	10/22/21 23:37
2M158616.D	20 PPB	10/22/21 23:56
2M158617.D	BLK	10/23/21 00:16
2M158618.D	BLK	10/23/21 00:35
2M158619.D	DAILY BLANK	10/23/21 00:55
2M158620.D	DAILY BLANK	10/23/21 01:15
2M158621.D	MDL @ 1 PPB	10/23/21 01:34
2M158622.D	MDL @ 1 PPB	10/23/21 01:54
2M158623.D	AD26801-013	10/23/21 02:14
2M158624.D	AD26801-014	10/23/21 02:33
2M158625.D	AD26756-001	10/23/21 02:53
2M158626.D	MBS97044	10/23/21 03:12
2M158627.D	MBS97045	10/23/21 03:32
2M158628.D	AD26755-001(MS)	10/23/21 03:52
2M158629.D	AD26755-001(MSD	10/23/21 04:11
2M158630.D	AD26716-079(50X)	10/23/21 04:31
2M158631.D	AD26716-079(50X)	10/23/21 04:51
2M158632.D	AD26716-079(50X)	10/23/21 05:10
2M158633.D	AD26826-013	10/23/21 05:30
2M158634.D	AD26826-014	10/23/21 05:50
2M158635.D	AD26822-006	10/23/21 06:09
2M158636.D	AD26822-007	10/23/21 06:29
2M158637.D	AD26826-010	10/23/21 06:48
2M158638.D	AD26826-011	10/23/21 07:08
2M158639.D	AD26826-012	10/23/21 07:28
2M158640.D	AD26826-007	10/23/21 07:47
2M158641.D	AD26786-004	10/23/21 08:07
2M158642.D	AD26786-005	10/23/21 08:27
2M158643.D	AD26786-006	10/23/21 08:46
2M158644.D	AD26786-007	10/23/21 09:06
2M158645.D	AD26786-008	10/23/21 09:26
2M158646.D	AD26784-001	10/23/21 09:45
2M158647.D	AD26784-002	10/23/21 10:05
2M158648.D	AD26784-003	10/23/21 10:25
2M158649.D	AD26755-001	10/23/21 10:45
2M158650.D	AD26822-002	10/23/21 11:04
2M158651.D	AD26822-003	10/23/21 11:24
2M158652.D	AD26822-005	10/23/21 11:44
2M158653.D	AD26822-004	10/23/21 12:03
2M158654.D	BLK	10/23/21 12:23
2M158655.D	BLK	10/23/21 12:42
2M158656.D	26817-001	10/23/21 13:02
2M158657.D	26817-001	10/23/21 13:21
2M158658.D	STD	10/23/21 13:41
2M158659.D	STD	10/23/21 14:00
2M158660.D	STD	10/23/21 14:20
2M158661.D	STD	10/23/21 14:39
2M158662.D	BLK	10/23/21 14:58
2M158663.D	BLK	10/23/21 15:18
2M158664.D	BLK	10/23/21 15:37
2M158665.D	BLK	10/23/21 15:57
2M158666.D	BLK	10/23/21 16:16
2M158667.D	BLK	10/25/21 08:59
2M158668.D	BLK	10/25/21 09:18

Data Path : G:\GcMsData\2021\GCMS_2\Data\10-2221\
Data File : 2M158614.D
Acq On : 22 Oct 2021 23:20
Operator : JR
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A1021.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Oct 22 09:21:52 2021



Spectrum Information: Average of 7.348 to 7.354 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	6560	PASS
75	95	30	60	51.8	15494	PASS
95	95	100	100	100.0	29888	PASS
96	95	5	9	7.6	2259	PASS
173	174	0.00	2	0.3	76	PASS
174	95	50	100	99.4	29715	PASS
175	174	5	9	8.6	2552	PASS
176	174	95	101	95.8	28464	PASS
177	176	5	9	6.5	1846	PASS

1102001 0056

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M144913.D	CAL @ 20 PPB	09/15/21 21:36	2	6M144912.D	CAL @ 5 PPB	09/15/21 21:16
3	6M144911.D	CAL @ 2 PPB	09/15/21 20:55	4	6M144914.D	CAL @ 50 PPB	09/15/21 21:57
5	6M144919.D	CAL @ 100 PPB	09/15/21 23:40	6	6M144917.D	CAL @ 250 PPB	09/15/21 22:59
7	6M144915.D	CAL @ 500 PPB	09/15/21 22:18	8	6M144910.D	CAL @ 1 PPB	09/15/21 20:34
9	6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4689	0.4853	0.5001	0.4773	0.4658	0.5026	0.4881	-----	-----	0.484	1.67	1.00	1.00	3.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.1149	0.1275	0.1407	0.1145	0.1110	0.1211	0.1165	-----	-----	0.121	1.65	0.999	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.3057	0.3420	0.3819	0.3117	0.2980	0.3229	0.3072	-----	-----	0.324	1.84	0.999	1.00	9.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Qua	0.1597	0.2189	0.2457	0.1393	0.1595	0.1604	0.1501	-----	-----	0.176	2.25	0.999	1.00	23	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.2861	0.3029	0.3269	0.2791	0.2738	0.2923	0.2820	-----	-----	0.292	1.93	1.00	1.00	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.1619	0.1757	0.1879	0.1694	0.1673	0.1782	0.1719	-----	-----	0.173	2.34	1.00	1.00	4.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.3543	0.3905	0.3898	0.3360	0.3396	0.3670	0.3510	-----	-----	0.361	2.57	0.999	1.00	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1976	0.2057	0.1981	0.1871	0.1903	0.2040	0.2028	-----	-----	0.198	2.82	1.00	1.00	3.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.3823	0.4017	0.4209	0.3861	0.3843	0.4125	0.3962	-----	-----	0.398	2.86	1.00	1.00	3.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1924	0.1906	0.2110	0.1836	0.1930	0.2069	0.1978	-----	-----	0.197	3.04	0.999	1.00	4.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.2478	0.2869	0.3097	0.2300	0.2294	0.2423	0.2344	-----	-----	0.254	3.45	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0426	0.0418	0.0416	0.0462	0.0449	0.0483	0.0456	-----	-----	0.0445	2.94	0.999	1.00	5.7		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.1193	0.1196	0.1485	0.1198	0.1148	0.1227	0.1192	-----	-----	0.123	3.65	1.00	1.00	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.1423	0.0855	0.0694	0.1958	0.1995	0.2448	0.2486	-----	-----	0.169	3.18	0.999	0.999	43		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0948	0.1135	0.1228	0.0894	0.0837	0.0826	0.0824	-----	-----	0.0956	3.07	1.00	1.00	17	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.6510	0.7181	0.8081	0.6412	0.6494	0.7060	0.6746	-----	-----	0.693	3.25	0.999	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0283	0.0312	0.0382	0.0291	0.0310	0.0330	0.0334	-----	-----	0.0321	3.52	1.00	1.00	10		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.3337	0.3367	0.3690	0.3467	0.3614	0.4025	0.3901	-----	-----	0.363	3.92	0.999	0.999	7.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.9349	0.9566	0.9962	0.9669	0.9784	1.0551	1.0527	-----	-----	0.992	4.07	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.3837	0.4204	0.4187	0.3763	0.3860	0.4126	0.3958	-----	-----	0.399	3.04	0.999	1.00	4.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.2559	0.2728	0.3233	0.2549	0.2576	0.2669	0.2577	-----	-----	0.270	3.36	1.00	1.00	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.5456	0.5274	0.6120	0.5418	0.5599	0.6151	0.6258	0.6162	-----	0.581	3.69	1.00	1.00	7.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.4693	0.5206	0.5255	0.4612	0.4637	0.5012	0.4775	-----	-----	0.488	4.04	0.999	1.00	5.6	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.2255	0.2429	0.2643	0.2239	0.2242	0.2411	0.2366	-----	-----	0.237	3.70	1.00	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.7009	0.6750	0.7129	0.7114	0.7244	0.7759	0.7743	-----	-----	0.725	4.34	1.00	1.00	5.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.4607	0.4689	0.5286	0.4773	0.4810	0.5285	0.5161	-----	-----	0.494	4.45	1.00	1.00	5.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.2867	0.3202	0.3794	0.2728	0.2652	0.2727	0.2631	-----	-----	0.294	4.60	1.00	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Qua	0.1953	0.1677	0.1746	0.2483	0.2976	0.3456	0.3288	-----	-----	0.251	4.45	0.998	0.999	30		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.2966	0.3135	0.3579	0.3163	0.3198	0.3335	0.3330	-----	-----	0.324	4.47	1.00	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0029	0.0030	0.0026	0.0029	0.0029	0.0030	0.0030	-----	-----	0.00296	5.53	1.00	1.00	5.7		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.3067	0.3210	0.3354	0.3118	0.3211	0.3496	0.3382	-----	-----	0.326	4.86	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.4480	0.5060	0.5693	0.4334	0.4361	0.4593	0.4439	-----	-----	0.471	4.64	1.00	1.00	11	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2742	0.2824	0.2903	0.2751	0.2720	0.2746	0.2713	0.2962	0.2949	0.281	4.74	-1	-1	3.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.4199	0.4317	0.4514	0.4252	0.4538	0.5050	0.4902	-----	-----	0.454	4.81	0.999	0.999	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1680	0.1707	0.1707	0.1635	0.1595	0.1593	0.1601	0.1791	0.1724	0.167	4.94	-1	-1	4.1		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4112	0.4380	0.4904	0.4001	0.3816	0.4069	0.4029	-----	-----	0.419	4.98	1.00	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.1485	0.1518	0.1656	0.1236	0.1344	0.1425	0.1463	-----	-----	0.145	4.45	0.999	1.00	9.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.3775	0.3897	0.4483	0.3674	0.3822	0.4128	0.3932	-----	-----	0.396	4.77	0.999	1.00	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.3247	0.3072	0.2908	0.3168	0.3227	0.3537	0.3463	-----	-----	0.323	4.87	1.00	1.00	6.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.7638	0.7933	0.8132	0.8026	0.8398	0.9827	0.9819	-----	-----	0.854	4.07	0.999	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.3508	0.3737	0.4286	0.3464	0.3431	0.3664	0.3659	-----	-----	0.368	5.60	1.00	1.00	7.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.00

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0057

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M144913.D	CAL @ 20 PPB	09/15/21 21:36	2	6M144912.D	CAL @ 5 PPB	09/15/21 21:16
3	6M144911.D	CAL @ 2 PPB	09/15/21 20:55	4	6M144914.D	CAL @ 50 PPB	09/15/21 21:57
5	6M144919.D	CAL @ 100 PPB	09/15/21 23:40	6	6M144917.D	CAL @ 250 PPB	09/15/21 22:59
7	6M144915.D	CAL @ 500 PPB	09/15/21 22:18	8	6M144910.D	CAL @ 1 PPB	09/15/21 20:34
9	6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.3416	0.3401	0.3324	0.3446	0.3790	0.4176	0.4103	-----	-----	0.367	5.45	1.00	1.00	9.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1584	0.1637	0.1652	0.1481	0.1456	0.1575	0.1565	-----	-----	0.156	5.53	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.2875	0.2976	0.3288	0.2784	0.2806	0.3017	0.3024	-----	-----	0.297	5.46	1.00	1.00	5.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.2421	0.2445	0.2805	0.2372	0.2436	0.2613	0.2583	-----	-----	0.253	5.34	1.00	1.00	6.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.8984	0.9266	0.9617	0.8925	0.8976	0.9696	0.9515	0.9276	-----	0.928	4.98	1.00	1.00	3.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.5523	0.5358	0.5309	0.5557	0.5672	0.6042	0.6095	-----	-----	0.565	5.03	1.00	1.00	5.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.6595	0.6525	0.6895	0.6828	0.7005	0.7445	0.7433	-----	-----	0.696	4.98	1.00	1.00	5.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.3310	0.3260	0.2521	0.3344	0.3411	0.3627	0.3501	-----	-----	0.328	5.48	1.00	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.3138	0.3021	0.3276	0.3228	0.3211	0.3388	0.3322	-----	-----	0.323	6.45	1.00	1.00	3.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0069	0.0117	0.0135	0.0045	0.0018	0.0027	0.0032	-----	-----	0.00636	5.78	0.979	0.992	73		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.4260	0.4214	0.4133	0.4399	0.4497	0.4970	0.4909	-----	-----	0.448	5.84	1.00	1.00	7.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.3684	0.3574	0.3437	0.3902	0.3952	0.4367	0.4424	-----	-----	0.391	6.12	1.00	1.00	9.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.3300	0.3154	0.3286	0.3501	0.3598	0.3837	0.3762	-----	-----	0.349	6.14	1.00	1.00	7.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.2705	0.2893	0.3254	0.2650	0.2570	0.2698	0.2632	-----	-----	0.277	6.23	1.00	1.00	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.2642	0.2851	0.3122	0.2665	0.2688	0.2819	0.2714	0.2540	0.3404	0.283	6.53	1.00	1.00	9.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.4637	0.4906	0.4996	0.4715	0.4595	0.4829	0.4729	-----	-----	0.477	6.32	1.00	1.00	3.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.3615	0.3737	0.3751	0.3840	0.3808	0.3998	0.3888	-----	-----	0.381	5.90	1.00	1.00	3.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.2464	0.2330	0.2663	0.2696	0.2750	0.2878	0.2815	-----	-----	0.266	6.33	1.00	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.2391	0.2437	0.2777	0.2331	0.2431	0.2574	0.2484	-----	-----	0.249	6.32	1.00	1.00	5.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.2359	1.1884	1.1857	1.2546	1.2654	1.2267	1.2073	1.1462	1.1525	1.21	5.99	-1	-1	3.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7206	0.7024	0.7701	0.7181	0.7341	0.7842	0.7518	0.7149	-----	0.737	6.03	0.999	1.00	3.9	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2774	0.2782	0.3112	0.2775	0.2838	0.3032	0.2946	-----	-----	0.289	6.81	1.00	1.00	4.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.8013	0.8428	0.9459	0.7830	0.7999	0.8453	0.8171	-----	-----	0.834	6.78	1.00	1.00	6.5	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.9974	0.9239	0.9893	1.1105	1.2179	1.3496	1.3020	-----	-----	1.13	7.02	0.999	0.999	15	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.9358	0.8311	0.8583	1.0130	1.0900	1.1905	1.1377	-----	-----	1.01	7.13	0.999	0.999	14	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.3568	0.3806	0.3827	0.3690	0.3845	0.4169	0.3945	-----	-----	0.384	7.23	0.999	0.999	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.5951	0.6120	0.6556	0.6175	0.6576	0.7465	0.6785	0.5179	-----	0.635	6.82	0.998	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.6487	0.6800	0.7157	0.6421	0.6350	0.6706	0.6323	-----	-----	0.661	7.45	0.999	1.00	4.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7265	0.7607	0.7367	0.7415	0.7584	0.7397	0.7389	0.7400	0.7163	0.740	7.40	-1	-1	1.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.4708	1.4405	1.3325	1.5174	1.6477	1.8133	1.6893	-----	-----	1.56	7.10	0.998	0.999	11	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.8843	0.8700	0.8168	0.9186	0.9773	1.0635	0.9789	0.8399	0.6579	0.890	6.88	0.998	0.999	13	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8810	0.8483	0.8867	0.8885	0.9550	1.0544	0.9889	0.6845	-----	0.898	7.10	0.999	0.999	12	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.3396	0.3661	0.4154	0.3659	0.3814	0.4308	0.4096	-----	-----	0.387	7.47	0.999	0.999	8.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.1133	1.1701	1.1280	1.0772	1.1353	1.2214	1.1629	-----	-----	1.14	8.02	0.999	1.00	4.0	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.0959	1.1408	1.2978	1.0698	1.1146	1.2139	1.1487	-----	-----	1.15	8.07	0.999	0.999	6.8	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.0603	1.0714	1.1623	1.0034	1.0579	1.1530	1.1046	-----	-----	1.09	8.29	0.999	0.999	5.2	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.2835	2.3015	2.2309	2.3150	2.5273	2.7495	2.4795	2.0130	-----	2.36	7.29	0.997	0.999	9.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0236	0.0299	0.0319	0.0271	0.0339	0.0261	0.0323	-----	-----	0.0293	7.37	0.990	0.996	13		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.7971	0.7838	0.7637	0.8008	0.8903	0.9775	0.9008	-----	-----	0.845	7.47	0.998	0.999	9.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.7590	0.8715	0.8697	0.7742	0.7992	0.8672	0.8309	-----	-----	0.825	7.48	0.999	1.00	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.5451	1.6020	1.6424	1.5177	1.5897	1.7124	1.5945	-----	-----	1.60	7.59	0.999	0.999	4.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.00

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0058

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M144913.D	CAL @ 20 PPB	09/15/21 21:36	2	6M144912.D	CAL @ 5 PPB	09/15/21 21:16
3	6M144911.D	CAL @ 2 PPB	09/15/21 20:55	4	6M144914.D	CAL @ 50 PPB	09/15/21 21:57
5	6M144919.D	CAL @ 100 PPB	09/15/21 23:40	6	6M144917.D	CAL @ 250 PPB	09/15/21 22:59
7	6M144915.D	CAL @ 500 PPB	09/15/21 22:18	8	6M144910.D	CAL @ 1 PPB	09/15/21 20:34
9	6M144909.D	CAL @ 0.5 PPB	09/15/21 20:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.3782	2.3685	2.3716	2.3795	2.5061	2.7661	2.5352	-----	-----	2.47	7.58	0.998	0.999	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.5321	1.5595	1.5126	1.4977	1.5859	1.7125	1.5288	-----	-----	1.56	7.65	0.997	0.999	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	2.8104	2.8693	2.8504	2.8416	3.0102	3.2459	2.9490	2.5002	-----	2.88	7.52	0.998	0.999	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.4774	1.5929	1.6483	1.4765	1.5648	1.6786	1.5540	-----	-----	1.57	7.49	0.998	0.999	4.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	1.9807	1.9260	1.8133	1.9102	2.0718	2.2129	2.0649	1.4820	-----	1.93	7.60	0.999	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.9183	0.8802	0.8393	0.9082	0.9864	1.0595	0.9942	0.6686	-----	0.907	7.61	0.999	0.999	13	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.8580	1.9463	1.7530	1.8732	2.0350	2.2199	2.0774	1.5770	-----	1.92	7.81	0.999	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.9624	1.9225	1.8346	1.9454	2.0788	2.2782	2.1103	1.7743	-----	1.99	7.83	0.998	0.999	8.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.4687	2.4340	2.3929	2.4953	2.6842	2.9235	2.7281	1.9376	-----	2.51	7.93	0.999	0.999	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	2.0026	2.0466	2.1116	2.0105	2.1749	2.4028	2.2512	2.2163	-----	2.15	8.00	0.999	0.999	6.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	2.4243	2.3653	2.2672	2.3986	2.5394	2.8098	2.6237	2.1982	-----	2.45	8.24	0.999	0.999	8.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.1492	1.1418	1.0018	1.1953	1.2998	1.4670	1.4126	-----	-----	1.24	8.22	0.999	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	1.3265	1.2603	1.1915	1.4305	1.6556	1.9103	1.8745	-----	-----	1.52	8.68	0.999	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.1307	0.1313	0.1174	0.1373	0.1410	0.1558	0.1535	-----	-----	0.138	8.74	1.00	1.00	9.7	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0400	0.0407	0.0463	0.0513	0.0608	0.0672	0.0671	-----	-----	0.0534	9.18	0.999	0.999	22		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.3878	0.4140	0.4035	0.3736	0.4066	0.4509	0.4429	-----	-----	0.411	9.32	0.999	0.999	6.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.6265	0.6613	0.6771	0.6484	0.7048	0.7981	0.7964	-----	-----	0.702	9.23	0.999	0.999	9.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.5852	0.6426	0.6282	0.5915	0.6555	0.7432	0.7516	-----	-----	0.657	9.54	0.999	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	1.4178	1.2518	1.1737	1.5910	1.7724	2.0143	1.9819	1.0591	-----	1.53	9.40	0.999	0.999	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.00
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0059

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M158546.D	CAL @ 20 PPB	10/21/21 15:49	2	2M158542.D	CAL @ 5 PPB	10/21/21 14:30
3	2M158544.D	CAL @ 10 PPB	10/21/21 15:09	4	2M158548.D	CAL @ 50 PPB	10/21/21 16:28
5	2M158551.D	CAL @ 100 PPB	10/21/21 17:27	6	2M158554.D	CAL @ 250 PPB	10/21/21 18:26
7	2M158557.D	CAL @ 500 PPB	10/21/21 19:25	8	2M158541.D	CAL @ 1 PPB	10/21/21 14:10
9	2M158540.D	CAL @ 0.5 PPB	10/21/21 13:51				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2925	0.2769	0.2887	0.3116	0.2911	0.3141	0.3295	0.2879	-----	0.299	1.70	0.999	1.00	5.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.2991	0.2851	0.2800	0.3121	0.2958	0.3156	0.3256	0.2675	-----	0.298	1.68	1.00	1.00	6.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1695	0.1767	0.1699	0.1777	0.1675	0.1812	0.1937	0.1945	-----	0.179	1.86	0.999	1.00	5.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Qua	0.0591	0.0683	0.0644	0.0623	0.0721	0.0969	0.0994	0.1055	-----	0.0785	2.25	0.997	0.998	24	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Chloride	1	0	Avg	0.1803	0.1822	0.1825	0.1884	0.1815	0.1958	0.2070	0.1673	-----	0.186	1.95	0.999	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.0992	0.1109	0.1030	0.1060	0.1001	0.1072	0.1106	0.1113	-----	0.106	2.34	1.00	1.00	4.6	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.3066	0.3161	0.3209	0.3248	0.3044	0.3405	0.3596	0.3041	-----	0.322	2.56	0.999	1.00	6.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1335	0.1407	0.1389	0.1409	0.1360	0.1474	0.1513	0.1348	-----	0.140	2.80	1.00	1.00	4.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.3230	0.3241	0.3399	0.3367	0.3234	0.3490	0.3605	0.3097	-----	0.333	2.84	0.999	1.00	4.9	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1595	0.1685	0.1751	0.1647	0.1582	0.1977	0.1824	0.1839	-----	0.174	3.00	0.997	0.998	7.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2155	0.1845	0.2250	0.2014	0.2138	0.2276	0.2305	0.2540	-----	0.219	3.41	1.00	1.00	9.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0315	0.0319	0.0332	0.0352	0.0331	0.0360	0.0357	0.0345	-----	0.0339	2.92	1.00	1.00	5.0		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0970	0.1004	0.1056	0.1050	0.1010	0.1092	0.1091	0.1004	-----	0.104	3.62	1.00	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.2276	0.1434	0.1964	0.2173	0.2426	0.3294	0.3358	0.2266	-----	0.240	3.15	0.984	0.994	27		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0775	0.0800	0.0824	0.0800	0.0786	0.0916	0.0888	0.0974	-----	0.0846	3.04	0.999	0.999	8.5	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4842	0.4002	0.4948	0.4463	0.4742	0.5502	0.5751	0.5484	-----	0.497	3.21	0.999	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0275	0.0250	0.0335	0.0297	0.0294	0.0326	0.0335	0.0281	-----	0.0300	3.48	0.999	1.00	10		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1801	0.1757	0.1811	0.1869	0.1774	0.1847	0.1917	0.1638	-----	0.180	3.87	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.6170	0.6220	0.6353	0.6516	0.6075	0.6365	0.6382	0.5908	-----	0.625	4.03	1.00	1.00	3.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.2748	0.2734	0.2952	0.2876	0.2736	0.3210	0.3132	0.2854	-----	0.291	3.01	0.999	0.999	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.2173	0.1969	0.2255	0.1994	0.2177	0.2321	0.2329	0.2454	-----	0.221	3.32	1.00	1.00	7.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.5598	0.5661	0.5843	0.5973	0.5664	0.6018	0.6086	0.5578	0.4811	0.569	3.64	1.00	1.00	6.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3516	0.3572	0.3594	0.3734	0.3450	0.3641	0.3745	0.3594	-----	0.361	4.00	1.00	1.00	2.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2363	0.2331	0.2369	0.2448	0.2316	0.2452	0.2536	0.2314	-----	0.239	3.65	1.00	1.00	3.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5568	0.5492	0.5688	0.5889	0.5585	0.5893	0.5961	0.5448	-----	0.569	4.29	1.00	1.00	3.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3610	0.3673	0.3719	0.3777	0.3512	0.3692	0.3752	0.3623	-----	0.367	4.41	1.00	1.00	2.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1711	0.1777	0.1806	0.1730	0.1609	0.1629	0.1646	0.1825	-----	0.172	4.57	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3120	0.3153	0.3151	0.3340	0.3049	0.3131	0.3099	0.3084	-----	0.314	4.42	1.00	1.00	2.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2455	0.2264	0.2546	0.2621	0.2359	0.2505	0.2486	0.2202	-----	0.243	4.43	1.00	1.00	5.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0039	0.0041	0.0040	0.0042	0.0040	0.0044	0.0045	0.0038	-----	0.00415	5.49	0.999	1.00	5.8		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.2897	0.2948	0.3009	0.3082	0.2849	0.3006	0.3095	0.2816	-----	0.296	4.82	1.00	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4057	0.4065	0.4224	0.4225	0.3941	0.4126	0.4211	0.3868	-----	0.409	4.60	1.00	1.00	3.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2924	0.2907	0.2895	0.2920	0.2969	0.2931	0.2940	0.2927	0.2913	0.293	4.70	-1	-1	0.72		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2558	0.2523	0.2616	0.2690	0.2545	0.2680	0.2788	0.2431	-----	0.260	4.77	0.999	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1380	0.1353	0.1343	0.1336	0.1366	0.1349	0.1334	0.1354	0.1375	0.135	4.91	-1	-1	1.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.3057	0.3208	0.3185	0.3141	0.2919	0.3025	0.3025	0.3276	0.3657	0.317	4.95	1.00	1.00	6.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1322	0.1308	0.1323	0.1462	0.1458	0.1584	0.1516	0.1078	-----	0.138	4.41	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3968	0.4005	0.4015	0.4215	0.3933	0.4147	0.4248	0.3816	-----	0.404	4.73	1.00	1.00	3.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3663	0.3568	0.3683	0.3870	0.3682	0.3965	0.4078	0.3265	-----	0.372	4.83	1.00	1.00	6.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.6922	0.6944	0.7144	0.7556	0.6922	0.7014	0.6874	0.6908	-----	0.704	4.02	1.00	1.00	3.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3027	0.2993	0.3083	0.3248	0.3059	0.3297	0.3417	0.2903	-----	0.313	5.57	0.999	1.00	5.6	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 7.07
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0060

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M158546.D	CAL @ 20 PPB	10/21/21 15:49	2	2M158542.D	CAL @ 5 PPB	10/21/21 14:30
3	2M158544.D	CAL @ 10 PPB	10/21/21 15:09	4	2M158548.D	CAL @ 50 PPB	10/21/21 16:28
5	2M158551.D	CAL @ 100 PPB	10/21/21 17:27	6	2M158554.D	CAL @ 250 PPB	10/21/21 18:26
7	2M158557.D	CAL @ 500 PPB	10/21/21 19:25	8	2M158541.D	CAL @ 1 PPB	10/21/21 14:10
9	2M158540.D	CAL @ 0.5 PPB	10/21/21 13:51				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2424	0.2555	0.2492	0.2644	0.2471	0.2608	0.2784	0.2194	-----	0.252	5.42	0.999	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2640	0.2725	0.2718	0.2826	0.2664	0.2823	0.2884	0.2668	-----	0.274	5.50	1.00	1.00	3.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2021	0.2154	0.2124	0.2088	0.1996	0.2108	0.2172	0.1992	-----	0.208	5.43	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.3150	0.3177	0.3266	0.3271	0.3075	0.3339	0.3482	0.3165	-----	0.324	5.30	0.999	1.00	4.0	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.8190	0.8286	0.8456	0.8628	0.7943	0.8332	0.8340	0.8174	0.8146	0.828	4.95	1.00	1.00	2.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5549	0.5641	0.5485	0.5813	0.5486	0.5787	0.5872	0.4921	-----	0.557	4.99	1.00	1.00	5.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.5270	0.5170	0.5271	0.5806	0.5412	0.5620	0.6088	0.5106	-----	0.547	4.95	0.999	1.00	6.3	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.2586	0.2335	0.2515	0.2689	0.2511	0.2629	0.2912	0.2339	-----	0.256	5.45	0.998	1.00	7.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3523	0.3347	0.3589	0.3932	0.3710	0.4058	0.4431	0.2902	-----	0.369	6.42	0.998	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Qua	0.0090	0.0103	0.0108	0.0105	0.0096	0.0101	0.0114	0.0224	-----	0.0118	5.71	0.996	1.00	37		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.3871	0.3620	0.4050	0.4153	0.3874	0.4068	0.4659	0.3621	-----	0.399	5.81	0.996	1.00	8.4	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3709	0.3499	0.3767	0.3991	0.3740	0.3906	0.4420	0.3379	-----	0.380	6.09	0.997	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2481	0.2303	0.2486	0.2688	0.2531	0.2666	0.2989	0.2365	-----	0.256	6.11	0.997	1.00	8.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2605	0.2617	0.2736	0.2744	0.2548	0.2712	0.3100	0.2544	-----	0.270	6.20	0.996	1.00	6.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3076	0.2976	0.3258	0.3242	0.3039	0.3214	0.3348	0.3164	-----	0.317	6.49	0.999	1.00	4.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4074	0.4151	0.4326	0.4227	0.3940	0.4137	0.4696	0.3980	-----	0.419	6.29	0.996	1.00	5.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.3013	0.2981	0.3024	0.3291	0.3060	0.3222	0.3578	0.3119	-----	0.316	5.87	0.997	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.2167	0.2153	0.2256	0.2468	0.2267	0.2398	0.2650	0.2026	-----	0.230	6.31	0.998	1.00	8.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.3448	0.3348	0.3536	0.3615	0.3347	0.3537	0.3996	0.3546	-----	0.355	6.29	0.997	1.00	5.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.1730	1.1518	1.1714	1.1687	1.1747	1.1537	1.2836	1.1553	1.3337	1.20	5.95	-1	-1	5.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6966	0.7042	0.7268	0.7224	0.6683	0.7027	0.7871	0.6768	-----	0.711	5.99	0.997	1.00	5.2	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3249	0.3059	0.3355	0.3506	0.3302	0.3233	0.3752	0.2769	-----	0.328	6.78	0.996	1.00	8.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.8417	0.8523	0.8908	0.8714	0.8138	0.8027	0.8695	0.8157	-----	0.845	6.75	0.999	1.00	3.8	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	0.8030	0.7476	0.7702	0.9010	0.8671	0.8820	1.0452	0.7114	-----	0.841	6.99	0.994	1.00	13	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.7974	0.7394	0.7517	0.8627	0.8212	0.8443	0.9885	0.6935	-----	0.812	7.11	0.995	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5586	0.4908	0.5532	0.6304	0.6241	0.6206	0.7831	0.4473	-----	0.589	7.20	0.990	0.999	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6245	0.6013	0.6260	0.6405	0.6065	0.5779	0.7099	0.6308	-----	0.627	6.79	0.992	0.999	6.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.6298	0.6312	0.6471	0.6713	0.6306	0.5805	0.6961	0.6340	-----	0.640	7.42	0.994	0.999	5.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.9955	0.9863	0.9812	0.9898	0.9988	0.8744	0.9921	0.9798	0.9825	0.976	7.37	-1	-1	3.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.5273	1.4435	1.5598	1.6236	1.5263	1.4639	1.6896	1.4154	-----	1.53	7.07	0.996	0.999	6.1	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.9223	0.9106	0.9535	0.9756	0.9082	0.8525	0.9562	0.8669	0.7273	0.897	6.85	0.997	0.999	8.4	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.9046	0.8779	0.9131	0.9369	0.8855	0.8421	0.9832	0.8699	-----	0.902	7.07	0.995	0.999	4.9	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2028	0.1942	0.2047	0.2328	0.2219	0.2469	0.2932	0.2041	-----	0.225	7.45	0.994	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.1693	1.1868	1.2054	1.2209	1.1646	1.2234	1.2596	1.1855	-----	1.20	7.99	1.00	1.00	2.7	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1949	1.2101	1.2597	1.2459	1.1911	1.2499	1.2857	1.2322	-----	1.23	8.04	1.00	1.00	2.7	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.1214	1.1195	1.1386	1.1713	1.1073	1.1691	1.2021	1.1395	-----	1.15	8.26	1.00	1.00	2.8	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.1405	2.1134	2.2087	2.2595	2.1113	2.0066	2.2247	1.9105	-----	2.12	7.26	0.998	0.999	5.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0273	0.0288	0.0222	0.0282	0.0278	0.0281	0.0328	0.0455	-----	0.0301	7.34	0.995	1.00	23		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.4698	0.4714	0.4603	0.5104	0.4670	0.4346	0.5351	0.4303	-----	0.472	7.43	0.992	0.999	7.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.7527	0.7339	0.7568	0.8179	0.7820	0.7859	0.9217	0.7018	-----	0.782	7.46	0.995	1.00	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.2137	1.1763	1.2243	1.2781	1.2023	1.1376	1.2343	1.1231	-----	1.20	7.56	0.999	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.07

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0061

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M158546.D	CAL @ 20 PPB	10/21/21 15:49	2	2M158542.D	CAL @ 5 PPB	10/21/21 14:30
3	2M158544.D	CAL @ 10 PPB	10/21/21 15:09	4	2M158548.D	CAL @ 50 PPB	10/21/21 16:28
5	2M158551.D	CAL @ 100 PPB	10/21/21 17:27	6	2M158554.D	CAL @ 250 PPB	10/21/21 18:26
7	2M158557.D	CAL @ 500 PPB	10/21/21 19:25	8	2M158541.D	CAL @ 1 PPB	10/21/21 14:10
9	2M158540.D	CAL @ 0.5 PPB	10/21/21 13:51				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.1007	2.0630	2.1338	1.9766	2.0910	1.9398	2.0948	1.9312	----	2.04	7.55	0.999	1.00	3.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.1474	1.1750	1.1947	1.1863	1.1047	1.0817	1.3666	1.1010	----	1.17	7.62	0.990	0.999	7.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.2169	2.2041	2.2791	2.3211	2.1769	2.0169	2.2743	2.1317	----	2.20	7.49	0.997	0.999	4.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.1664	1.1551	1.2045	1.2454	1.1660	1.1468	1.3277	1.1610	----	1.20	7.46	0.996	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.4304	1.4305	1.4734	1.7430	1.4232	1.3833	1.6136	1.3366	----	1.48	7.58	0.995	0.999	9.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.5821	0.5486	0.5857	0.6261	0.5958	0.6378	0.7282	0.4703	----	0.597	7.59	0.996	1.00	12	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.6390	1.6155	1.6701	1.7327	1.6323	1.5447	1.7978	1.5055	----	1.64	7.78	0.995	0.999	5.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.6554	1.6321	1.6979	1.7159	1.6382	1.5600	1.7762	1.5824	----	1.66	7.80	0.997	0.999	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.7610	1.7409	1.8221	1.9114	1.6725	1.8342	1.9472	1.6216	----	1.79	7.90	0.999	1.00	6.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.5809	1.6067	1.6331	1.7157	1.6234	1.6734	1.7665	1.4645	----	1.63	7.97	0.999	1.00	5.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.4107	1.4109	1.4521	1.5153	1.4417	1.4830	1.6409	1.3984	----	1.47	8.21	0.998	1.00	5.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8446	0.8286	0.8616	0.9273	0.8835	0.9275	0.9908	0.8176	----	0.885	8.19	0.999	1.00	6.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.1856	1.1574	1.1914	1.3235	1.2967	1.3566	1.4329	1.1660	----	1.26	8.65	0.999	1.00	8.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.2104	0.2100	0.2116	0.2448	0.2415	0.2712	0.2809	0.2069	----	0.235	8.71	0.999	1.00	13	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0710	0.0658	0.0686	0.0825	0.0808	0.0875	0.0946	0.0664	0.0647	0.0758	9.15	0.998	1.00	14		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.3373	0.3586	0.3518	0.3793	0.3623	0.3625	0.4494	0.4028	----	0.376	9.28	0.991	0.999	9.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.6274	0.6606	0.6439	0.6929	0.6707	0.6919	0.8224	0.6825	----	0.687	9.20	0.994	1.00	8.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.5279	0.5545	0.5530	0.5879	0.5689	0.5936	0.7061	0.5832	----	0.584	9.50	0.994	1.00	9.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.5476	1.3863	1.5489	1.7666	1.6996	1.7959	2.0120	1.5826	----	1.67	9.36	0.997	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 7.07
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M146366.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/21/2021 1:13:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.13	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	58.80	50	20	0.1	0.484	0.569	17.60	
Dichlorodifluoromethane	1	0		1.65	87.64	50	20	0.1	0.121	0.212	75.28	C1
Chloromethane	1	0		1.85	58.02	50	20	0.1	0.324	0.376	16.03	
Bromomethane	1	0		2.25	52.72	50	20	0.1	0.176	0.173	5.45	
Vinyl Chloride	1	0		1.93	63.15	50	20	0.1	0.292	0.369	26.31	C1
Chloroethane	1	0		2.34	63.66	50	20	0.1	0.173	0.221	27.32	C1
Trichlorofluoromethane	1	0		2.57	72.99	50	20	0.1	0.361	0.527	45.98	C1
Ethyl ether	1	0		2.82	56.91	50	20	0.5	0.198	0.225	13.83	
Furan	1	0		2.86	62.88	50	20	0.5	0.398	0.500	25.75	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.03	57.71	50	20	0.1	0.197	0.227	15.42	
Methylene Chloride	1	0		3.45	53.60	50	20	0.1	0.254	0.273	7.19	
Acrolein	1	0		2.94	256.11	250	20		0.044	0.046	2.44	
Acrylonitrile	1	0		3.65	54.22	50	20		0.123	0.134	8.44	
Iodomethane	1	0		3.18	41.90	50	20		0.169	0.187	16.20	
Acetone	1	0		3.07	287.11	250	20	0.1	0.096	0.110	14.84	
Carbon Disulfide	1	0		3.25	53.13	50	20	0.1	0.693	0.736	6.26	
t-Butyl Alcohol	1	0		3.52	326.80	250	20		0.032	0.042	30.72	C1
n-Hexane	1	0		3.92	56.47	50	20		0.363	0.410	12.94	
Di-isopropyl-ether	1	0		4.07	47.83	50	20		0.992	0.948	4.35	
1,1-Dichloroethene	1	0		3.04	60.68	50	20	0.1	0.399	0.484	21.35	C1
Methyl Acetate	1	0		3.36	51.73	50	20	0.1	0.270	0.279	3.46	
Methyl-t-butyl ether	1	0		3.69	50.62	50	20	0.1	0.581	0.588	1.24	
1,1-Dichloroethane	1	0		4.04	55.24	50	20	0.2	0.488	0.540	10.47	
trans-1,2-Dichloroethene	1	0		3.70	58.34	50	20	0.1	0.237	0.276	16.67	
Ethyl-t-butyl ether	1	0		4.33	53.00	50	20	0.5	0.725	0.769	6.01	
cis-1,2-Dichloroethene	1	0		4.45	54.92	50	20	0.1	0.494	0.543	9.84	
Bromochloromethane	1	0		4.60	49.70	50	20		0.294	0.293	0.60	
2,2-Dichloropropane	1	0		4.45	48.68	50	20		0.251	0.321	2.64	
Ethyl acetate	1	0		4.47	49.68	50	20		0.324	0.322	0.64	
1,4-Dioxane	1	0		5.52	3410.58	2500	20		0.003	0.004	36.42	C1
1,1-Dichloropropene	1	0		4.86	58.43	50	20		0.326	0.381	16.87	
Chloroform	1	0		4.64	53.08	50	20	0.2	0.471	0.500	6.15	
Dibromofluoromethane	1	0	S	4.73	30.56	75	**		0.281	0.287	1.86	
Cyclohexane	1	0		4.81	54.81	50	20	0.1	0.454	0.498	9.63	
1,2-Dichloroethane-d4	1	0	S	4.94	28.54	75	**		0.167	0.159	4.86	
1,2-Dichloroethane	1	0		4.98	52.21	50	20	0.1	0.419	0.437	4.42	
2-Butanone	1	0		4.45	49.98	50	20	0.1	0.145	0.145	0.04	
1,1,1-Trichloroethane	1	0		4.77	57.99	50	20	0.1	0.396	0.459	15.97	
Carbon Tetrachloride	1	0		4.87	62.33	50	20	0.1	0.323	0.403	24.65	C1
Vinyl Acetate	1	0		4.07	49.81	50	20		0.854	0.851	0.37	
Bromodichloromethane	1	0		5.60	51.35	50	20	0.2	0.368	0.378	2.69	
Methylcyclohexane	1	0		5.45	59.55	50	20	0.1	0.367	0.437	19.09	
Dibromomethane	1	0		5.53	51.98	50	20		0.156	0.163	3.95	
1,2-Dichloropropane	1	0		5.46	52.01	50	20	0.1	0.297	0.309	4.03	
Trichloroethene	1	0		5.34	54.54	50	20	0.2	0.253	0.275	9.07	
Benzene	1	0		4.98	55.79	50	20	0.5	0.928	1.036	11.59	
tert-Amyl methyl ether	1	0		5.03	50.75	50	20		0.565	0.574	1.49	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.98	48.98	50	20	0.5	0.696	0.682	2.03	
Methyl methacrylate	1	0		5.48	48.55	50	20	0.5	0.328	0.319	2.91	
Dibromochloromethane	1	0		6.45	50.30	50	20	0.1	0.323	0.325	0.60	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M146366.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/21/2021 1:13:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.78	44.58	50	20		0.006	0.002	10.83	
cis-1,3-Dichloropropene	1	0		5.83	50.89	50	20	0.2	0.448	0.456	1.78	
trans-1,3-Dichloropropene	1	0		6.12	52.04	50	20	0.1	0.391	0.407	4.07	
Ethyl methacrylate	1	0		6.14	47.82	50	20	0.5	0.349	0.334	4.36	
1,1,2-Trichloroethane	1	0		6.22	47.55	50	20	0.1	0.277	0.264	4.89	
1,2-Dibromoethane	1	0		6.53	49.04	50	20	0.1	0.283	0.277	1.92	
1,3-Dichloropropane	1	0		6.32	49.96	50	20		0.477	0.477	0.07	
4-Methyl-2-Pentanone	1	0		5.90	50.40	50	20	0.1	0.381	0.384	0.79	
2-Hexanone	1	0		6.33	54.69	50	20	0.1	0.266	0.291	9.38	
Tetrachloroethene	1	0		6.32	52.36	50	20	0.2	0.249	0.261	4.71	
Toluene-d8	1	0	S	5.99	30.02	75	**		1.207	1.208	0.07	
Toluene	1	0		6.03	51.40	50	20	0.4	0.737	0.758	2.80	
1,1,1,2-Tetrachloroethane	1	0		6.81	51.50	50	20		0.289	0.298	3.00	
Chlorobenzene	1	0		6.78	49.61	50	20	0.5	0.834	0.827	0.77	
1,4-Dichlorobenzene-d4	1	0	I	8.05	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.02	49.65	50	20	0.5	1.127	1.119	0.71	
n-Amyl acetate	1	0		7.13	51.71	50	20	0.5	1.008	1.043	3.43	
Bromoform	1	0		7.23	50.42	50	20	0.1	0.384	0.387	0.84	
Ethylbenzene	1	0		6.82	52.05	50	20	0.1	0.635	0.661	4.10	
1,1,2,2-Tetrachloroethane	1	0		7.45	50.11	50	20	0.1	0.661	0.662	0.21	
Bromofluorobenzene	1	0	S	7.39	30.34	75	**		0.740	0.748	1.14	
Styrene	1	0		7.10	50.25	50	20	0.3	1.559	1.567	0.50	
m&p-Xylenes	1	0		6.88	111.30	100	20	0.1	0.890	0.990	11.30	
o-Xylene	1	0		7.10	52.49	50	20	0.3	0.898	0.943	4.97	
trans-1,4-Dichloro-2-butene	1	0		7.47	55.10	50	20		0.387	0.426	10.20	
1,3-Dichlorobenzene	1	0		8.02	49.31	50	20	0.6	1.144	1.128	1.38	
1,4-Dichlorobenzene	1	0		8.07	48.14	50	20	0.5	1.155	1.112	3.73	
1,2-Dichlorobenzene	1	0		8.29	47.80	50	20	0.4	1.088	1.040	4.39	
Isopropylbenzene	1	0		7.29	54.12	50	20	0.1	2.363	2.557	8.23	
Cyclohexanone	1	0		7.37	501.35	250	20		0.029	0.059	100.54	C1
Camphene	1	0		7.47	55.17	50	20		0.845	0.932	10.34	
1,2,3-Trichloropropane	1	0		7.48	49.90	50	20		0.825	0.823	0.20	
2-Chlorotoluene	1	0		7.59	49.99	50	20		1.601	1.600	0.02	
p-Ethyltoluene	1	0		7.58	51.33	50	20		2.472	2.538	2.66	
4-Chlorotoluene	1	0		7.65	50.43	50	20		1.561	1.575	0.87	
n-Propylbenzene	1	0		7.52	54.34	50	20		2.885	3.135	8.68	
Bromobenzene	1	0		7.49	50.63	50	20		1.570	1.590	1.27	
1,3,5-Trimethylbenzene	1	0		7.61	53.53	50	20		1.933	2.069	7.07	
Butyl methacrylate	1	0		0.00	0.00	50	20	0.5	0.907	0.003	100.00	C1
t-Butylbenzene	1	0		7.81	52.81	50	20		1.918	2.025	5.62	
1,2,4-Trimethylbenzene	1	0		7.83	52.82	50	20		1.988	2.101	5.64	
sec-Butylbenzene	1	0		7.93	55.03	50	20		2.508	2.761	10.07	
4-Isopropyltoluene	1	0		8.00	51.56	50	20		2.152	2.219	3.13	
n-Butylbenzene	1	0		8.24	55.78	50	20		2.453	2.737	11.55	
p-Diethylbenzene	1	0		8.22	53.67	50	20		1.238	1.329	7.33	
1,2,4,5-Tetramethylbenzene	1	0		8.68	50.59	50	20		1.521	1.539	1.18	
1,2-Dibromo-3-Chloropropane	1	0		8.74	53.32	50	20	0.05	0.138	0.147	6.64	
Camphor	1	0		9.18	533.29	500	20		0.053	0.068	6.66	
Hexachlorobutadiene	1	0		9.32	49.32	50	20		0.411	0.406	1.36	
1,2,4-Trichlorobenzene	1	0		9.23	47.81	50	20	0.2	0.702	0.671	4.38	
1,2,3-Trichlorobenzene	1	0		9.54	47.96	50	20		0.657	0.630	4.09	
Naphthalene	1	0		9.39	43.41	50	20		1.533	1.659	13.18	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20PPB **Data File:** 2M158615.D **Instrument:** GCMS 2

Cont Calibration Date/Time 10/22/2021 11:37:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.10	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.70	19.55	20	20	0.1	0.299	0.292	2.27	
Dichlorodifluoromethane	1	0		1.68	19.61	20	20	0.1	0.298	0.292	1.97	
Chloromethane	1	0		1.86	20.42	20	20	0.1	0.179	0.183	2.09	
Bromomethane	1	0		2.25	19.11	20	20	0.1	0.079	0.080	4.44	
Vinyl Chloride	1	0		1.95	20.77	20	20	0.1	0.186	0.193	3.85	
Chloroethane	1	0		2.34	21.85	20	20	0.1	0.106	0.116	9.24	
Trichlorofluoromethane	1	0		2.56	21.97	20	20	0.1	0.322	0.354	9.86	
Ethyl ether	1	0		2.80	22.94	20	20	0.5	0.140	0.161	14.70	
Furan	1	0		2.84	22.65	20	20	0.5	0.333	0.377	13.25	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	23.43	20	20	0.1	0.174	0.204	17.13	
Methylene Chloride	1	0		3.42	20.76	20	20	0.1	0.219	0.227	3.81	
Acrolein	1	0		2.92	109.26	100	20		0.034	0.037	9.26	
Acrylonitrile	1	0		3.62	20.24	20	20		0.104	0.105	1.20	
Iodomethane	1	0		3.15	14.84	20	20		0.240	0.182	25.80	C1
Acetone	1	0		3.04	95.53	100	20	0.1	0.085	0.081	4.47	
Carbon Disulfide	1	0		3.22	21.56	20	20	0.1	0.497	0.535	7.79	
t-Butyl Alcohol	1	0		3.48	95.09	100	20		0.030	0.028	4.91	
n-Hexane	1	0		3.87	19.89	20	20		0.180	0.179	0.55	
Di-isopropyl-ether	1	0		4.03	19.81	20	20		0.625	0.619	0.94	
1,1-Dichloroethene	1	0		3.01	20.99	20	20	0.1	0.291	0.305	4.93	
Methyl Acetate	1	0		3.32	20.35	20	20	0.1	0.221	0.225	1.74	
Methyl-t-butyl ether	1	0		3.64	20.56	20	20	0.1	0.569	0.585	2.81	
1,1-Dichloroethane	1	0		4.00	19.66	20	20	0.2	0.361	0.354	1.72	
trans-1,2-Dichloroethene	1	0		3.65	20.84	20	20	0.1	0.239	0.249	4.21	
Ethyl-t-butyl ether	1	0		4.29	20.30	20	20	0.5	0.569	0.578	1.50	
cis-1,2-Dichloroethene	1	0		4.41	19.45	20	20	0.1	0.367	0.357	2.77	
Bromochloromethane	1	0		4.57	19.85	20	20		0.172	0.170	0.76	
2,2-Dichloropropane	1	0		4.42	16.39	20	20		0.314	0.257	18.05	
Ethyl acetate	1	0		4.43	20.66	20	20		0.243	0.251	3.29	
1,4-Dioxane	1	0		5.49	1040.13	1000	20		0.004	0.004	4.01	
1,1-Dichloropropene	1	0		4.82	20.09	20	20		0.296	0.298	0.45	
Chloroform	1	0		4.61	20.10	20	20	0.2	0.409	0.411	0.51	
Dibromofluoromethane	1	0	S	4.70	29.79	30	**		0.293	0.291	0.70	
Cyclohexane	1	0		4.77	20.92	20	20	0.1	0.260	0.272	4.62	
1,2-Dichloroethane-d4	1	0	S	4.91	27.74	30	**		0.136	0.125	7.54	
1,2-Dichloroethane	1	0		4.95	18.60	20	20	0.1	0.317	0.294	7.00	
2-Butanone	1	0		4.41	18.57	20	20	0.1	0.138	0.128	7.14	
1,1,1-Trichloroethane	1	0		4.73	19.40	20	20	0.1	0.404	0.392	3.00	
Carbon Tetrachloride	1	0		4.83	19.70	20	20	0.1	0.372	0.367	1.49	
Vinyl Acetate	1	0		4.03	18.59	20	20		0.704	0.654	7.05	
Bromodichloromethane	1	0		5.57	19.28	20	20	0.2	0.313	0.302	3.58	
Methylcyclohexane	1	0		5.42	21.30	20	20	0.1	0.252	0.269	6.48	
Dibromomethane	1	0		5.50	21.00	20	20		0.274	0.288	4.98	
1,2-Dichloropropane	1	0		5.43	19.82	20	20	0.1	0.208	0.206	0.88	
Trichloroethene	1	0		5.30	20.70	20	20	0.2	0.324	0.336	3.52	
Benzene	1	0		4.95	20.83	20	20	0.5	0.828	0.862	4.16	
tert-Amyl methyl ether	1	0		4.99	20.49	20	20		0.557	0.571	2.43	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.95	19.69	20	20	0.5	0.547	0.538	1.55	
Methyl methacrylate	1	0		5.45	19.78	20	20	0.5	0.256	0.254	1.09	
Dibromochloromethane	1	0		6.42	20.39	20	20	0.1	0.369	0.376	1.97	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20PPB **Data File:** 2M158615.D **Instrument:** GCMS 2

Cont Calibration Date/Time 10/22/2021 11:37:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.71	17.97	20	20		0.012	0.008	10.16	
cis-1,3-Dichloropropene	1	0		5.81	19.20	20	20	0.2	0.399	0.383	3.99	
trans-1,3-Dichloropropene	1	0		6.09	18.98	20	20	0.1	0.380	0.361	5.08	
Ethyl methacrylate	1	0		6.11	18.92	20	20	0.5	0.256	0.243	5.39	
1,1,2-Trichloroethane	1	0		6.20	20.62	20	20	0.1	0.270	0.278	3.11	
1,2-Dibromoethane	1	0		6.49	20.78	20	20	0.1	0.317	0.329	3.89	
1,3-Dichloropropane	1	0		6.29	20.30	20	20		0.419	0.425	1.50	
4-Methyl-2-Pentanone	1	0		5.87	18.51	20	20	0.1	0.316	0.293	7.44	
2-Hexanone	1	0		6.31	19.03	20	20	0.1	0.230	0.219	4.86	
Tetrachloroethene	1	0		6.29	20.47	20	20	0.2	0.355	0.363	2.33	
Toluene-d8	1	0	S	5.95	29.34	30	**		1.196	1.170	2.19	
Toluene	1	0		5.99	20.45	20	20	0.4	0.711	0.727	2.25	
1,1,1,2-Tetrachloroethane	1	0		6.78	21.07	20	20		0.328	0.345	5.37	
Chlorobenzene	1	0		6.75	21.16	20	20	0.5	0.845	0.894	5.79	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	20.80	20	20	0.5	0.841	0.875	3.99	
n-Amyl acetate	1	0		7.11	20.29	20	20	0.5	0.812	0.824	1.46	
Bromoform	1	0		7.20	21.26	20	20	0.1	0.589	0.626	6.32	
Ethylbenzene	1	0		6.79	22.08	20	20	0.1	0.627	0.693	10.42	
1,1,2,2-Tetrachloroethane	1	0		7.42	22.07	20	20	0.1	0.640	0.706	10.35	
Bromofluorobenzene	1	0	S	7.37	31.42	30	**		0.976	1.022	4.73	
Styrene	1	0		7.07	22.45	20	20	0.3	1.531	1.719	12.25	
m&p-Xylenes	1	0		6.85	46.72	40	20	0.1	0.897	1.048	16.79	
o-Xylene	1	0		7.07	22.60	20	20	0.3	0.902	1.019	13.02	
trans-1,4-Dichloro-2-butene	1	0		7.45	18.22	20	20		0.225	0.205	8.89	
1,3-Dichlorobenzene	1	0		7.99	22.20	20	20	0.6	1.202	1.334	10.99	
1,4-Dichlorobenzene	1	0		8.04	22.23	20	20	0.5	1.234	1.371	11.13	
1,2-Dichlorobenzene	1	0		8.26	22.15	20	20	0.4	1.146	1.270	10.77	
Isopropylbenzene	1	0		7.26	22.61	20	20	0.1	2.122	2.399	13.05	
Cyclohexanone	1	0		7.34	95.08	100	20		0.030	0.024	4.92	
Camphene	1	0		7.43	23.27	20	20		0.472	0.550	16.37	
1,2,3-Trichloropropane	1	0		7.46	20.73	20	20		0.782	0.810	3.63	
2-Chlorotoluene	1	0		7.56	21.99	20	20		1.199	1.318	9.95	
p-Ethyltoluene	1	0		7.55	22.51	20	20		2.041	2.298	12.56	
4-Chlorotoluene	1	0		7.62	21.69	20	20		1.170	1.269	8.46	
n-Propylbenzene	1	0		7.49	22.15	20	20		2.203	2.440	10.76	
Bromobenzene	1	0		7.46	21.30	20	20		1.197	1.274	6.48	
1,3,5-Trimethylbenzene	1	0		7.58	25.04	20	20		1.479	1.852	25.18	C1
Butyl methacrylate	1	0		7.59	19.60	20	20	0.5	0.597	0.585	1.98	
t-Butylbenzene	1	0		7.78	22.49	20	20		1.642	1.847	12.44	
1,2,4-Trimethylbenzene	1	0		7.80	22.24	20	20		1.657	1.843	11.22	
sec-Butylbenzene	1	0		7.90	22.49	20	20		1.789	2.011	12.43	
4-Isopropyltoluene	1	0		7.97	21.98	20	20		1.633	1.795	9.89	
n-Butylbenzene	1	0		8.21	21.74	20	20		1.469	1.597	8.70	
p-Diethylbenzene	1	0		8.19	23.88	20	20		0.885	1.057	19.40	
1,2,4,5-Tetramethylbenzene	1	0		8.65	23.59	20	20		1.264	1.491	17.97	
1,2-Dibromo-3-Chloropropane	1	0		8.71	20.22	20	20	0.05	0.235	0.237	1.09	
Camphor	1	0		9.15	212.56	200	20		0.076	0.081	6.28	
Hexachlorobutadiene	1	0		9.28	22.01	20	20		0.376	0.413	10.06	
1,2,4-Trichlorobenzene	1	0		9.20	21.20	20	20	0.2	0.687	0.728	6.02	
1,2,3-Trichlorobenzene	1	0		9.50	21.11	20	20		0.584	0.617	5.56	
Naphthalene	1	0		9.36	21.00	20	20		1.667	1.751	5.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1102001 0066

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M144913.D Method: EPA 8260D

Analysis Date/Time: 09/15/21 21:36

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	155180	5.13	124317	6.76	71473	8.05								
Eval File Area Limit:	77590-310360		62158-248634		35736-142946									
Eval File Rt Limit:	4.63-5.63		6.26-7.26		7.55-8.55									
Data File Sample														
6M144909.D CAL @ 0.5 PPB	146738	5.13	122143	6.76	65206	8.05								
6M144910.D CAL @ 1 PPB	142879	5.13	122100	6.76	64470	8.05								
6M144911.D CAL @ 2 PPB	146695	5.13	121578	6.76	65637	8.05								
6M144912.D CAL @ 5 PPB	148614	5.13	120215	6.76	65898	8.05								
6M144913.D CAL @ 20 PPB	155180	5.13	124317	6.76	71473	8.05								
6M144914.D CAL @ 50 PPB	161330	5.13	126806	6.76	72834	8.05								
6M144915.D CAL @ 500 PPB	162352	5.13	135190	6.76	76396	8.05								
6M144917.D CAL @ 250 PPB	164184	5.13	132714	6.76	71260	8.05								
6M144919.D CAL @ 100 PPB	171847	5.13	136855	6.76	74816	8.05								
6M144922.D ICV	170763	5.13	135559	6.76	73961	8.05								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1102001 0067

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M158546.D Method: EPA 8260D

Analysis Date/Time: 10/21/21 15:49

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	436451	5.10	361850	6.73	201943	8.02								
Eval File Area Limit:	218226-872902		180925-723700		100972-403886									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									
Data File Sample														
2M158540.D CAL @ 0.5 PPB	438664	5.10	320339	6.73	204325	8.02								
2M158541.D CAL @ 1 PPB	434135	5.10	362297	6.73	203074	8.02								
2M158542.D CAL @ 5 PPB	443569	5.10	370598	6.73	210861	8.02								
2M158544.D CAL @ 10 PPB	442721	5.10	364718	6.73	209215	8.02								
2M158546.D CAL @ 20 PPB	436451	5.10	361850	6.73	201943	8.02								
2M158548.D CAL @ 50 PPB	428052	5.10	352509	6.73	197344	8.02								
2M158551.D CAL @ 100 PPB	457764	5.10	383741	6.73	213273	8.02								
2M158554.D CAL @ 250 PPB	412737	5.10	353228	6.73	199638	8.02								
2M158557.D CAL @ 500 PPB	387773	5.10	302509	6.73	171023	8.03								
2M158563.D ICV	432427	5.10	355409	6.73	200082	8.02								
2M158566.D STD2	445039	5.10	362515	6.73	198097	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M146366.D Method: EPA 8260D

Analysis Date/Time: 10/21/21 13:13

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	142635	5.13	120331	6.76	66903	8.05								
Eval File Area Limit:	71318-285270		60166-240662		33452-133806									
Eval File Rt Limit:	4.63-5.63		6.26-7.26		7.55-8.55									
Data File	Sample													
6M146365.D	50 PPB	135844	5.13	113840	6.76	61983	8.05							
6M146368.D	BLK	132785	5.13	120918	6.76	61992	8.05							
6M146369.D	BLK	139793	5.13	120291	6.76	63496	8.05							
6M146370.D	DAILY BLANK	147851	5.13	133413	6.76	67787	8.05							
6M146371.D	MBS97020	141394	5.13	118642	6.76	66513	8.05							
6M146372.D	AD26688-007(MS)	150321	5.13	128447	6.76	71496	8.05							
6M146373.D	AD26688-007(MSD)	147780	5.13	124631	6.76	66634	8.05							
6M146374.D	AD26688-007	134759	5.13	115400	6.76	57795	8.05							
6M146375.D	BLK	147175	5.13	130540	6.76	69331	8.05							
6M146376.D	AD26794-001	116802	5.13	88548	6.76	37444	8.05							
6M146377.D	AD26794-002	303875	5.13	220648	6.76	83259	8.05							
6M146378.D	AD26794-003	119159	5.13	94080	6.76	36357	8.05							
6M146379.D	AD26794-004	131362	5.13	98768	6.76	40951	8.05							
6M146380.D	AD26795-001	115006	5.13	102086	6.76	50383	8.05							
6M146381.D	AD26796-002	117848	5.13	102354	6.76	51523	8.05							
6M146382.D	AD26767-001	118777	5.13	100434	6.76	46976	8.05							
6M146383.D	AD26767-002	118693	5.13	80206	6.76	28131	8.05							
6M146384.D	AD26755-002	132547	5.13	117554	6.76	63390	8.05							
6M146385.D	AD26755-001	134116	5.13	118174	6.76	56143	8.05							
6M146386.D	BLK	140089	5.13	119896	6.76	64485	8.05							
6M146387.D	AD26794-002	123675	5.13	81340	6.76	27064	8.05							
6M146388.D	AD26767-002	106178	5.13	71065	6.76	22092	8.05							
6M146389.D	AD26778-001	117639	5.13	101049	6.76	50506	8.05							
6M146390.D	AD26778-003	123685	5.13	107268	6.76	51350	8.05							
6M146391.D	AD26778-005	119523	5.13	103811	6.76	51194	8.05							
6M146392.D	AD26756-002	126272	5.13	110860	6.76	59514	8.05							
6M146393.D	AD26755-003	121361	5.13	101978	6.76	53122	8.05							
6M146394.D	AD26755-004	123502	5.13	100269	6.76	46236	8.05							
6M146395.D	BLK	128594	5.13	117497	6.76	60634	8.05							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M158615.D Method: EPA 8260D

Analysis Date/Time: 10/22/21 23:37

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	393355	5.10	323943	6.73	170882	8.02								
Eval File Area Limit:	196678-786710		161972-647886		85441-341764									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									
Data File Sample														
2M158616.D 20 PPB	353949	5.10	287836	6.73	163738	8.02								
2M158617.D BLK	404838	5.10	359157	6.73	192952	8.02								
2M158618.D BLK	412961	5.10	311617	6.73	190062	8.02								
2M158619.D DAILY BLANK	410145	5.10	339890	6.73	187765	8.02								
2M158620.D DAILY BLANK	367980	5.09	308036	6.73	177264	8.02								
2M158621.D MDL @ 1 PPB	407460	5.10	315733	6.73	165012	8.02								
2M158622.D MDL @ 1 PPB	404750	5.10	337306	6.73	180034	8.02								
2M158625.D AD26756-001	360974	5.09	300181	6.73	173829	8.02								
2M158626.D MBS97044	368654	5.09	313315	6.73	177676	8.02								
2M158627.D MBS97045	409543	5.10	340994	6.73	182713	8.02								
2M158628.D AD26755-001(MS)	336818	5.09	285090	6.73	164165	8.02								
2M158629.D AD26755-001(MSD)	363946	5.09	302111	6.73	167556	8.02								
2M158630.D AD26716-079(50X)(T:	377899	5.10	313770	6.73	175659	8.02								
2M158631.D AD26716-079(50X)(T:	420879	5.10	345477	6.73	189484	8.02								
2M158632.D AD26716-079(50X)(T)	419712	5.10	347452	6.73	187809	8.02								
2M158633.D AD26826-013	405583	5.10	335474	6.73	179542	8.02								
2M158634.D AD26826-014	424766	5.10	351702	6.73	191606	8.02								
2M158635.D AD26822-006	451312	5.10	379415	6.73	206612	8.02								
2M158636.D AD26822-007	412590	5.10	339798	6.73	174947	8.02								
2M158637.D AD26826-010	371933	5.10	313818	6.73	172115	8.02								
2M158638.D AD26826-011	403276	5.10	340965	6.73	187834	8.02								
2M158639.D AD26826-012	405686	5.10	344691	6.73	192760	8.02								
2M158640.D AD26826-007	455767	5.10	380991	6.73	204040	8.02								
2M158641.D AD26786-004	449266	5.10	374896	6.73	204992	8.02								
2M158642.D AD26786-005	403338	5.10	335593	6.73	177826	8.02								
2M158643.D AD26786-006	404982	5.10	341457	6.73	185095	8.03								
2M158644.D AD26786-007	402354	5.10	334197	6.73	176451	8.02								
2M158645.D AD26786-008	409411	5.10	337614	6.73	183675	8.02								
2M158646.D AD26784-001	348733	5.10	336604	6.73	186887	8.02								
2M158647.D AD26784-002	403580	5.10	335729	6.73	183481	8.02								
2M158648.D AD26784-003	405414	5.10	340417	6.73	185323	8.02								
2M158649.D AD26755-001	328182	5.09	297468	6.73	172059	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1102001 0070

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M158615.D Method: EPA 8260D

Analysis Date/Time: 10/22/21 23:37

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	393355	5.10	323943	6.73	170882	8.02								
Eval File Area Limit:	196678-786710		161972-647886		85441-341764									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									
Data File Sample														
2M158650.D AD26822-002	400280	5.10	332867	6.73	167666	8.02								
2M158651.D AD26822-003	361823	5.10	304325	6.73	165770	8.02								
2M158652.D AD26822-005	374665	5.10	313091	6.73	169062	8.02								
2M158653.D AD26822-004	389839	5.10	337537	6.73	186273	8.02								
2M158654.D BLK	343811	5.10	284968	6.73	158524	8.02								
2M158655.D BLK	380687	5.10	345504	6.73	187969	8.02								
2M158656.D 26817-001	314996	5.09	264642	6.73	165029	8.02								
2M158657.D 26817-001	365927	5.09	306913	6.73	169507	8.03								
2M158658.D STD	364518	5.10	298662	6.73	171928	8.02								
2M158659.D STD	414759	5.10	342540	6.73	184158	8.02								
2M158660.D STD	412473	5.10	339739	6.73	185511	8.02								
2M158661.D STD	417386	5.10	344268	6.73	188304	8.02								
2M158662.D BLK	406020	5.10	333263	6.73	187232	8.02								
2M158663.D BLK	417589	5.10	345579	6.73	191925	8.02								
2M158664.D BLK	404625	5.10	328555	6.73	181271	8.02								
2M158665.D BLK	416455	5.10	343504	6.73	188765	8.02								
2M158666.D BLK	389801	5.10	321846	6.73	180653	8.02								
2M158667.D BLK	430636	5.10	370600	6.73	208884	8.02								
2M158668.D BLK	393350	5.10	326522	6.73	179445	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26756-001
Client Id: SB-003SS (6-8.5)
Data File: 9M109263.D
Analysis Date: 11/01/21 11:36
Date Rec/Extracted: 10/20/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.045	U	50-32-8	Benzo[a]pyrene	0.045	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.045	U	205-99-2	Benzo[b]fluoranthene	0.045	U
122-66-7	1,2-Diphenylhydrazine	0.045	U	191-24-2	Benzo[g,h,i]perylene	0.045	U
123-91-1	1,4-Dioxane	0.023	U	207-08-9	Benzo[k]fluoranthene	0.045	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.045	U	100-51-6	Benzyl alcohol	0.045	U
95-95-4	2,4,5-Trichlorophenol	0.045	U	111-91-1	bis(2-Chloroethoxy)methan	0.045	U
88-06-2	2,4,6-Trichlorophenol	0.045	U	111-44-4	bis(2-Chloroethyl)ether	0.011	U
120-83-2	2,4-Dichlorophenol	0.017	U	108-60-1	bis(2-chloroisopropyl)ether	0.045	U
105-67-9	2,4-Dimethylphenol	0.022	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.045	U
51-28-5	2,4-Dinitrophenol	0.23	U	85-68-7	Butylbenzylphthalate	0.045	U
121-14-2	2,4-Dinitrotoluene	0.045	U	105-60-2	Caprolactam	0.045	U
606-20-2	2,6-Dinitrotoluene	0.045	U	86-74-8	Carbazole	0.045	U
91-58-7	2-Chloronaphthalene	0.045	U	218-01-9	Chrysene	0.045	U
95-57-8	2-Chlorophenol	0.045	U	53-70-3	Dibenzo[a,h]anthracene	0.045	U
91-57-6	2-Methylnaphthalene	0.045	U	132-64-9	Dibenzofuran	0.011	U
95-48-7	2-Methylphenol	0.013	U	84-66-2	Diethylphthalate	0.045	U
88-74-4	2-Nitroaniline	0.045	U	131-11-3	Dimethylphthalate	0.045	U
88-75-5	2-Nitrophenol	0.045	U	84-74-2	Di-n-butylphthalate	0.052	U
106-44-5	3&4-Methylphenol	0.013	U	117-84-0	Di-n-octylphthalate	0.045	U
91-94-1	3,3'-Dichlorobenzidine	0.045	U	206-44-0	Fluoranthene	0.045	U
99-09-2	3-Nitroaniline	0.045	U	86-73-7	Fluorene	0.045	U
534-52-1	4,6-Dinitro-2-methylphenol	0.23	U	118-74-1	Hexachlorobenzene	0.045	U
101-55-3	4-Bromophenyl-phenylether	0.045	U	87-68-3	Hexachlorobutadiene	0.045	U
59-50-7	4-Chloro-3-methylphenol	0.045	U	77-47-4	Hexachlorocyclopentadiene	0.15	U
106-47-8	4-Chloroaniline	0.020	U	67-72-1	Hexachloroethane	0.045	U
7005-72-3	4-Chlorophenyl-phenylether	0.045	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.045	U
100-01-6	4-Nitroaniline	0.045	U	78-59-1	Isophorone	0.045	U
100-02-7	4-Nitrophenol	0.045	U	91-20-3	Naphthalene	0.013	U
83-32-9	Acenaphthene	0.045	U	98-95-3	Nitrobenzene	0.045	U
208-96-8	Acenaphthylene	0.045	U	62-75-9	N-Nitrosodimethylamine	0.055	U
98-86-2	Acetophenone	0.045	U	621-64-7	N-Nitroso-di-n-propylamine	0.017	U
120-12-7	Anthracene	0.045	U	86-30-6	n-Nitrosodiphenylamine	0.15	U
1912-24-9	Atrazine	0.045	U	87-86-5	Pentachlorophenol	0.23	U
100-52-7	Benzaldehyde	0.49	U	85-01-8	Phenanthrene	0.045	U
92-87-5	Benzidine	0.079	U	108-95-2	Phenol	0.045	U
56-55-3	Benzo[a]anthracene	0.045	U	129-00-0	Pyrene	0.045	U

Worksheet #: 615354

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

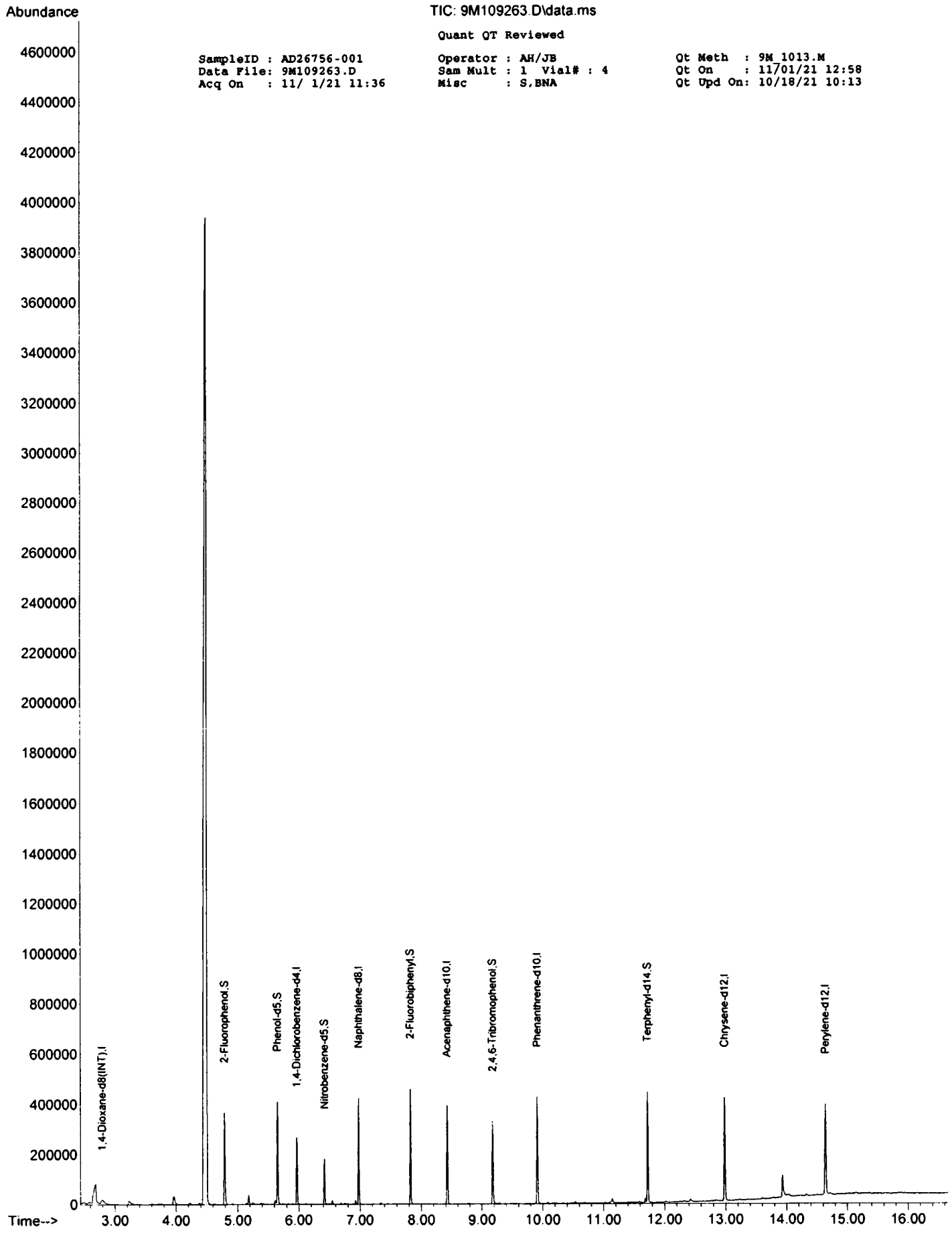
Quantitation Report (QT Reviewed)

SampleID : AD26756-001 Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109263.D Sam Mult : 1 Vial# : 4 Qt On : 11/01/21 12:58
Acq On : 11/ 1/21 11:36 Misc : S,BNA Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-01-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.790	96	22899	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.966	152	44306	40.00	ng	0.00
31) Naphthalene-d8	6.978	136	181979	40.00	ng	0.00
50) Acenaphthene-d10	8.425	164	89684	40.00	ng	0.00
77) Phenanthrene-d10	9.913	188	168148	40.00	ng	0.00
91) Chrysene-d12	12.983	240	150929	40.00	ng	0.00
103) Perylene-d12	14.642	264	159112	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.790	112	113371	79.50	ng	0.02
Spiked Amount 100.000			Recovery =	79.50%		
16) Phenol-d5	5.654	99	140511	82.55	ng	0.01
Spiked Amount 100.000			Recovery =	82.55%		
32) Nitrobenzene-d5	6.419	128	29051	40.85	ng	0.00
Spiked Amount 50.000			Recovery =	81.70%		
55) 2-Fluorobiphenyl	7.825	172	132001	38.92	ng	0.00
Spiked Amount 50.000			Recovery =	77.84%		
80) 2,4,6-Tribromophenol	9.178	330	41053	70.26	ng	0.00
Spiked Amount 100.000			Recovery =	70.26%		
94) Terphenyl-d14	11.725	244	130057	49.15	ng	0.00
Spiked Amount 50.000			Recovery =	98.30%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M109263.D\data.ms
Quant QT Reviewed
SampleID : AD26756-001
Data File: 9M109263.D
Acq On : 11/ 1/21 11:36
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : S,BNA
Qt Meth : 9M_1013.M
Qt On : 11/01/21 12:58
Qt Upd On: 10/18/21 10:13
4600000
4400000
4200000
4000000
3800000
3600000
3400000
3200000
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26756-002
Client Id: SB-007SS (4-6)
Data File: 9M109264.D
Analysis Date: 11/01/21 11:59
Date Rec/Extracted: 10/20/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.037	U	50-32-8	Benzo[a]pyrene	0.037	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.037	U	205-99-2	Benzo[b]fluoranthene	0.037	U
122-66-7	1,2-Diphenylhydrazine	0.037	U	191-24-2	Benzo[g,h,i]perylene	0.037	U
123-91-1	1,4-Dioxane	0.019	U	207-08-9	Benzo[k]fluoranthene	0.037	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.037	U	100-51-6	Benzyl alcohol	0.037	U
95-95-4	2,4,5-Trichlorophenol	0.037	U	111-91-1	bis(2-Chloroethoxy)methan	0.037	U
88-06-2	2,4,6-Trichlorophenol	0.037	U	111-44-4	bis(2-Chloroethyl)ether	0.0094	U
120-83-2	2,4-Dichlorophenol	0.014	U	108-60-1	bis(2-chloroisopropyl)ether	0.037	U
105-67-9	2,4-Dimethylphenol	0.018	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.037	U
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.037	U
121-14-2	2,4-Dinitrotoluene	0.037	U	105-60-2	Caprolactam	0.037	U
606-20-2	2,6-Dinitrotoluene	0.037	U	86-74-8	Carbazole	0.037	U
91-58-7	2-Chloronaphthalene	0.037	U	218-01-9	Chrysene	0.037	U
95-57-8	2-Chlorophenol	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
91-57-6	2-Methylnaphthalene	0.037	U	132-64-9	Dibenzofuran	0.0095	U
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.037	U
88-74-4	2-Nitroaniline	0.037	U	131-11-3	Dimethylphthalate	0.037	U
88-75-5	2-Nitrophenol	0.037	U	84-74-2	Di-n-butylphthalate	0.043	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.037	U
91-94-1	3,3'-Dichlorobenzidine	0.037	U	206-44-0	Fluoranthene	0.037	U
99-09-2	3-Nitroaniline	0.037	U	86-73-7	Fluorene	0.037	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.037	U
101-55-3	4-Bromophenyl-phenylether	0.037	U	87-68-3	Hexachlorobutadiene	0.037	U
59-50-7	4-Chloro-3-methylphenol	0.037	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.037	U
7005-72-3	4-Chlorophenyl-phenylether	0.037	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.037	U
100-01-6	4-Nitroaniline	0.037	U	78-59-1	Isophorone	0.037	U
100-02-7	4-Nitrophenol	0.037	U	91-20-3	Naphthalene	0.011	U
83-32-9	Acenaphthene	0.037	U	98-95-3	Nitrobenzene	0.037	U
208-96-8	Acenaphthylene	0.037	U	62-75-9	N-Nitrosodimethylamine	0.046	U
98-86-2	Acetophenone	0.037	U	621-64-7	N-Nitroso-di-n-propylamine	0.014	U
120-12-7	Anthracene	0.037	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.037	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.41	U	85-01-8	Phenanthrene	0.037	U
92-87-5	Benzidine	0.066	U	108-95-2	Phenol	0.037	U
56-55-3	Benzo[a]anthracene	0.037	U	129-00-0	Pyrene	0.037	U

Worksheet #: 615354

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

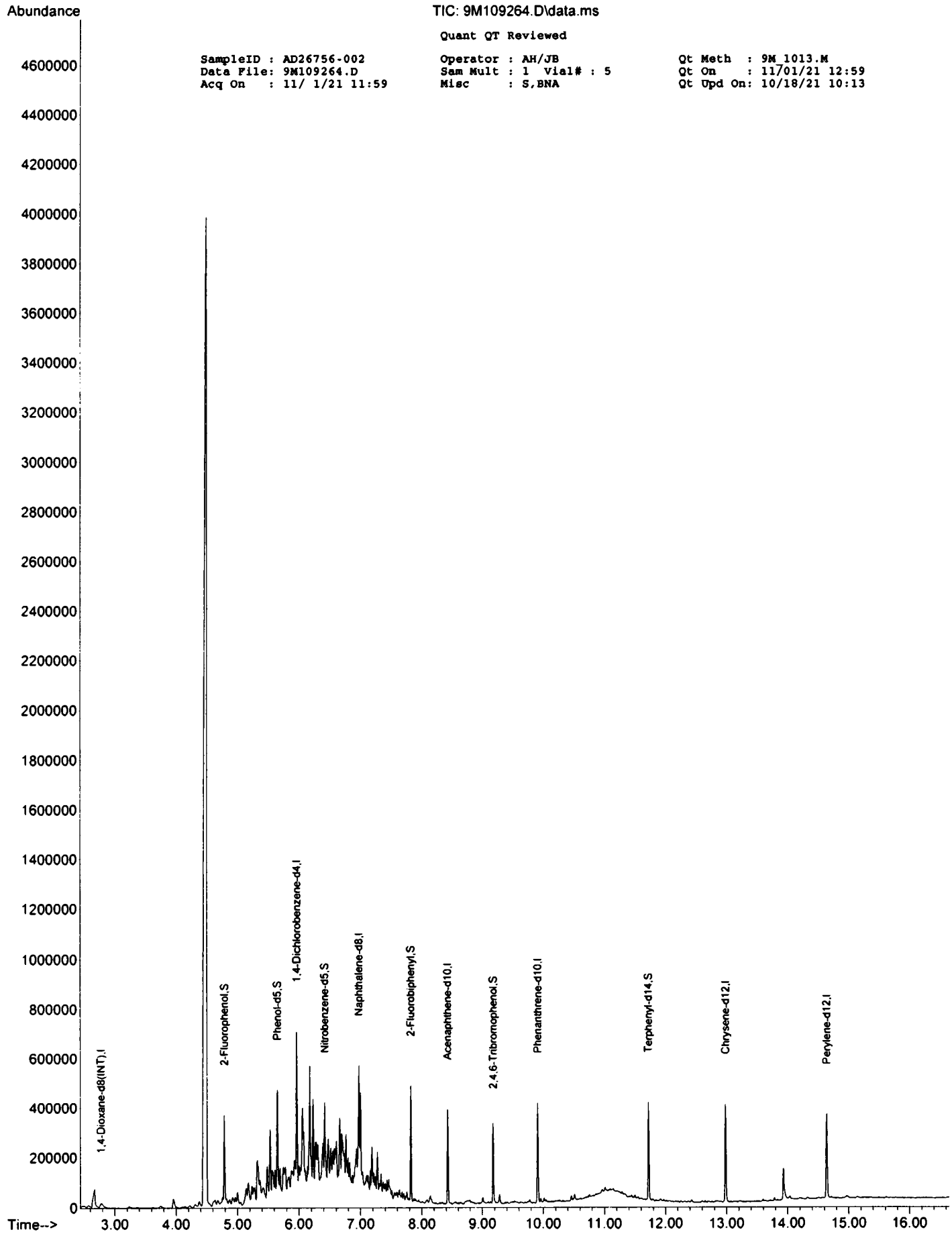
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD26756-002 Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109264.D Sam Mult : 1 Vial# : 5 Qt On : 11/01/21 12:59
Acq On : 11/ 1/21 11:59 Misc : S,BNA Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-01-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.778	96	21628	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.966	152	44286	40.00	ng	0.00
31) Naphthalene-d8	6.978	136	175793	40.00	ng	0.00
50) Acenaphthene-d10	8.425	164	83860	40.00	ng	0.00
77) Phenanthrene-d10	9.913	188	158252	40.00	ng	0.00
91) Chrysene-d12	12.983	240	141033	40.00	ng	0.00
103) Perylene-d12	14.642	264	149659	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.790	112	115601	85.83	ng	0.02
Spiked Amount 100.000			Recovery = 85.83%			
16) Phenol-d5	5.654	99	142277	88.50	ng	0.01
Spiked Amount 100.000			Recovery = 88.50%			
32) Nitrobenzene-d5	6.419	128	29525	42.97	ng	0.00
Spiked Amount 50.000			Recovery = 85.94%			
55) 2-Fluorobiphenyl	7.825	172	131952	41.61	ng	0.00
Spiked Amount 50.000			Recovery = 83.22%			
80) 2,4,6-Tribromophenol	9.183	330	38228	69.60	ng	0.01
Spiked Amount 100.000			Recovery = 69.60%			
94) Terphenyl-d14	11.724	244	119938	48.51	ng	0.00
Spiked Amount 50.000			Recovery = 97.02%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M109264.D\data.ms
Quant QT Reviewed
SampleID : AD26756-002
Data File: 9M109264.D
Acq On : 11/ 1/21 11:59
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : S,BNA
Qt Meth : 9M_1013.M
Qt On : 11/01/21 12:59
Qt Upd On: 10/18/21 10:13
4600000
4400000
4200000
4000000
3800000
3600000
3400000
3200000
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95427
Client Id:
Data File: 9M109204.D
Analysis Date: 10/29/21 18:01
Date Rec/Extracted: NA-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 615354

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

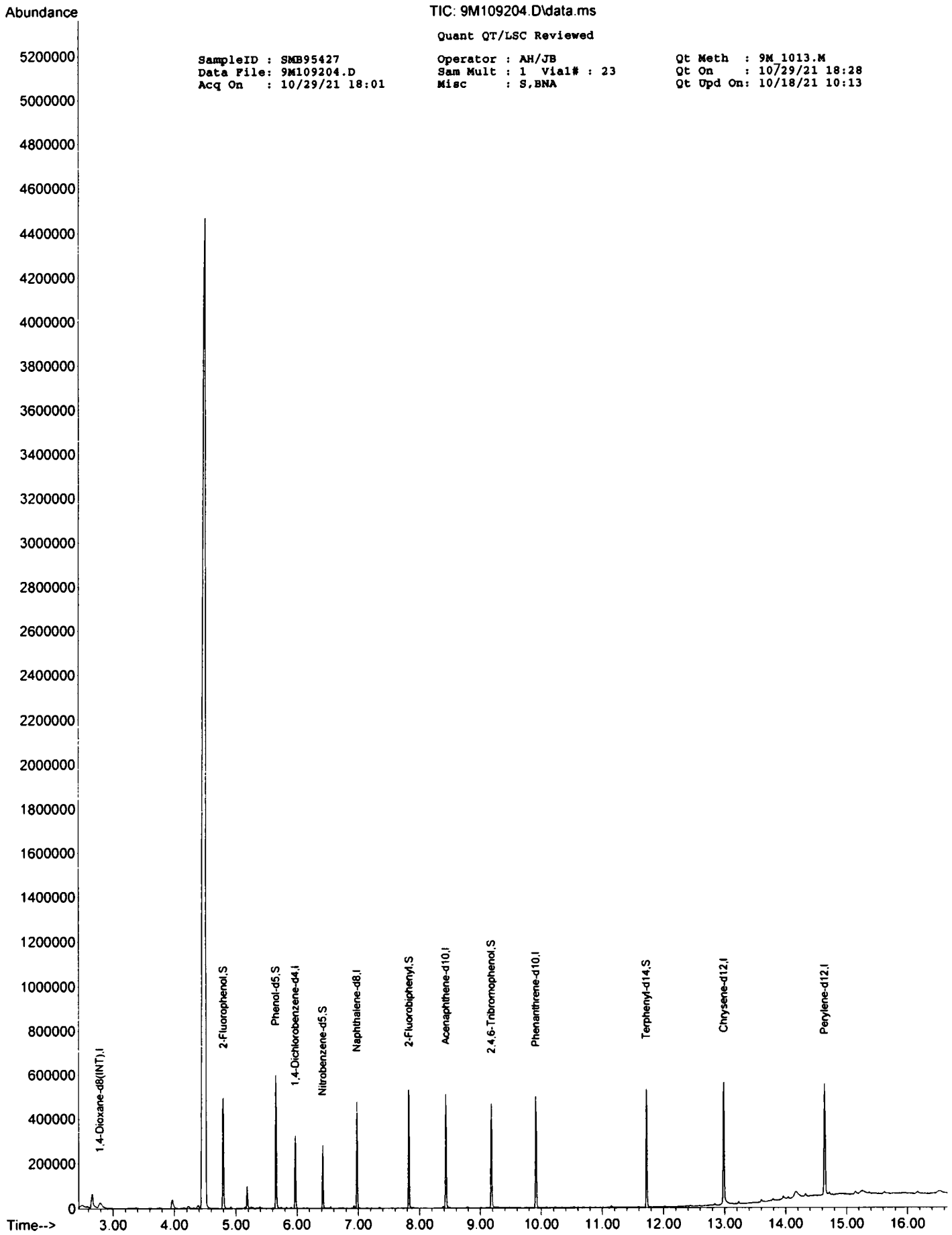
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : SMB95427 Operator : AH/JB Qt Meth : 9M_1013.M
Data File: 9M109204.D Sam Mult : 1 Vial# : 23 Qt On : 10/29/21 18:28
Acq On : 10/29/21 18:01 Misc : S,BNA Qt Upd On: 10/18/21 10:13

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-2921\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.784	96	29504	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.972	152	47921	40.00	ng	0.00
31) Naphthalene-d8	6.978	136	197614	40.00	ng	0.00
50) Acenaphthene-d10	8.431	164	99539	40.00	ng	0.00
77) Phenanthrene-d10	9.913	188	192353	40.00	ng	0.00
91) Chrysene-d12	12.989	240	204030	40.00	ng	0.01
103) Perylene-d12	14.642	264	240362	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.796	112	147786	80.44	ng	0.02
Spiked Amount 100.000			Recovery = 80.44%			
16) Phenol-d5	5.654	99	190742	86.97	ng	0.01
Spiked Amount 100.000			Recovery = 86.97%			
32) Nitrobenzene-d5	6.419	128	36833	47.69	ng	0.00
Spiked Amount 50.000			Recovery = 95.38%			
55) 2-Fluorobiphenyl	7.831	172	168394	44.73	ng	0.00
Spiked Amount 50.000			Recovery = 89.46%			
80) 2,4,6-Tribromophenol	9.184	330	70470	100.28	ng	0.01
Spiked Amount 100.000			Recovery = 100.28%			
94) Terphenyl-d14	11.725	244	181177	50.65	ng	0.00
Spiked Amount 50.000			Recovery = 101.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed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TIC: 9M109204.D\data.ms
Quant QT/LSC Reviewed
SampleID : SMB95427
Data File: 9M109204.D
Acq On : 10/29/21 18:01
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA
Qt Meth : 9M_1013.M
Qt On : 10/29/21 18:28
Qt Upd On: 10/18/21 10:13
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M109204.D	SMB95427	S	10/29/21 18:01	1		80	87	95	89	100	101
9M109263.D	AD26756-001	S	11/01/21 11:36	1		80	83	82	78	70	98
9M109264.D	AD26756-002	S	11/01/21 11:59	1		86	88	86	83	70	97
5M118331.D	SMB95427(MS)	S	10/29/21 17:39	1		70	70	95	91	100	101
9M109206.D	AD26843-002	S	10/29/21 18:47	1		70	76	78	76	86	88
9M109233.D	AD26843-002(MS)	S	10/31/21 12:55	1		84	87	90	86	69	94
9M109234.D	AD26843-002(MSD)	S	10/31/21 13:18	1		93	97	102	95	78	105

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2.4.6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95427

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M118331.D	SMB95427(MS)	10/29/2021 5:39:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.2348	0	50	32	25	150
Pyridine	1	27.7436	0	50	55	1	150
N-Nitrosodimethylamine	1	30.7186	0	50	61	50	130
Benzaldehyde	1	24.2517	0	50	49	20	220
Aniline	1	25.491	0	50	51	20	150
Pentachloroethane	1	26.2088	0	50	52	50	130
bis(2-Chloroethyl)ether	1	30.3495	0	50	61	50	130
Phenol	1	54.1633	0	100	54	20	150
2-Chlorophenol	1	57.6173	0	100	58	50	130
N-Decane	1	22.5576	0	50	45	20	130
1,3-Dichlorobenzene	1	28.3791	0	50	57 *	60	130
1,4-Dichlorobenzene	1	37.0428	0	50	74	60	130
1,2-Dichlorobenzene	1	36.2281	0	50	72	50	130
Benzyl alcohol	1	42.6985	0	50	85	20	130
bis(2-chloroisopropyl)ether	1	34.2349	0	50	68	40	130
2-Methylphenol	1	74.1482	0	100	74	50	130
Acetophenone	1	38.9409	0	50	78	50	130
Hexachloroethane	1	36.1828	0	50	72	50	130
N-Nitroso-di-n-propylamine	1	42.2156	0	50	84	40	130
3&4-Methylphenol	1	80.6412	0	100	81	70	130
Nitrobenzene	1	42.2506	0	50	85	70	130
Isophorone	1	38.6839	0	50	77	60	130
2-Nitrophenol	1	73.9986	0	100	74	70	130
2,4-Dimethylphenol	1	75.2851	0	100	75	40	130
Benzoic Acid	1	36.5171	0	100	37	20	130
bis(2-Chloroethoxy)methane	1	40.6017	0	50	81	60	130
2,4-Dichlorophenol	1	78.9425	0	100	79	70	130
1,2,4-Trichlorobenzene	1	40.3793	0	50	81	50	130
Naphthalene	1	37.7631	0	50	76	50	130
4-Chloroaniline	1	38.8824	0	50	78	10	150
Hexachlorobutadiene	1	38.3619	0	50	77	60	130
Caprolactam	1	46.2053	0	50	92	50	130
4-Chloro-3-methylphenol	1	82.4714	0	100	82	50	130
2-Methylnaphthalene	1	41.4539	0	50	83	70	130
1-Methylnaphthalene	1	37.8837	0	50	76	70	130
1,1'-Biphenyl	1	35.5474	0	50	71	60	130
1,2,4,5-Tetrachlorobenzene	1	35.7962	0	50	72	70	130
Hexachlorocyclopentadiene	1	36.6185	0	50	73	20	160
2,4,6-Trichlorophenol	1	85.1277	0	100	85	70	130
2,4,5-Trichlorophenol	1	78.2741	0	100	78	70	130
2-Chloronaphthalene	1	40.5124	0	50	81	70	130
1,4-Dimethylnaphthalene	1	35.7623	0	50	72	70	130
Diphenyl Ether	1	37.4626	0	50	75	70	130
2-Nitroaniline	1	46.4636	0	50	93	50	130
Coumarin	1	37.6015	0	50	75	70	130
Acenaphthylene	1	39.783	0	50	80	70	130
Dimethylphthalate	1	41.5574	0	50	83	70	130
2,6-Dinitrotoluene	1	41.7313	0	50	83	70	130
Acenaphthene	1	39.937	0	50	80	50	130
3-Nitroaniline	1	42.2001	0	50	84	10	130
2,4-Dinitrophenol	1	32.3378	0	100	32	20	150
Dibenzofuran	1	42.6344	0	50	85	70	130
2,4-Dinitrotoluene	1	42.1002	0	50	84	40	130
4-Nitrophenol	1	81.8014	0	100	82	20	150
2,3,4,6-Tetrachlorophenol	1	72.7538	0	100	73	70	130
Fluorene	1	41.0352	0	50	82	50	130
4-Chlorophenyl-phenylether	1	42.2474	0	50	84	70	130
Diethylphthalate	1	42.4521	0	50	85	70	130
4-Nitroaniline	1	46.5477	0	50	93	50	130
Atrazine	1	43.484	0	50	87	50	130
4,6-Dinitro-2-methylphenol	1	54.0402	0	100	54	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95427

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	34.4529	0	50	69	50	130
1,2-Diphenylhydrazine	1	42.1517	0	50	84	70	130
4-Bromophenyl-phenylether	1	42.5913	0	50	85	70	130
Hexachlorobenzene	1	42.6284	0	50	85	70	130
N-Octadecane	1	33.4127	0	50	67*	70	130
Pentachlorophenol	1	88.3466	0	100	88	40	130
Phenanthrene	1	41.9938	0	50	84	70	130
Anthracene	1	41.465	0	50	83	70	130
Carbazole	1	38.357	0	50	77	70	130
Di-n-butylphthalate	1	45.7646	0	50	92	70	130
Fluoranthene	1	44.3657	0	50	89	70	130
Pyrene	1	41.3856	0	50	83	50	130
Benzidine	1	5.8199	0	50	12	0	130
Butylbenzylphthalate	1	45.1027	0	50	90	50	130
3,3'-Dichlorobenzidine	1	38.5188	0	50	77	10	130
Benzo[a]anthracene	1	39.3321	0	50	79	70	130
Chrysene	1	44.4411	0	50	89	60	130
bis(2-Ethylhexyl)phthalate	1	45.7524	0	50	92	70	130
Di-n-octylphthalate	1	46.4188	0	50	93	70	130
Benzo[b]fluoranthene	1	44.0052	0	50	88	70	130
Benzo[k]fluoranthene	1	39.9983	0	50	80	70	130
Benzo[a]pyrene	1	43.5276	0	50	87	70	130
Indeno[1,2,3-cd]pyrene	1	47.5889	0	50	95	70	130
Dibenzo[a,h]anthracene	1	43.204	0	50	86	60	130
Benzo[g,h,i]perylene	1	43.5106	0	50	87	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95427

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M109233.D	AD26843-002(MS)	10/31/2021 12:55:00 P
Non Spike(If applicable):	9M109206.D	AD26843-002	10/29/2021 6:47:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.7773	0	50	36	25	150
Pyridine	1	31.8421	0	50	64	1	150
N-Nitrosodimethylamine	1	35.0924	0	50	70	50	130
Benzaldehyde	1	31.0148	0	50	62	20	220
Aniline	1	24.5691	0	50	49	20	150
Pentachloroethane	1	34.693	0	50	69	50	130
bis(2-Chloroethyl)ether	1	37.6516	0	50	75	50	130
N-Decane	1	29.361	0	50	59	20	130
1,3-Dichlorobenzene	1	35.4484	0	50	71	60	130
1,4-Dichlorobenzene	1	37.9741	0	50	76	60	130
1,2-Dichlorobenzene	1	37.8277	0	50	76	50	130
Benzyl alcohol	1	44.7703	0	50	90	20	130
bis(2-chloroisopropyl)ether	1	40.1027	0	50	80	40	130
Acetophenone	1	41.4706	0	50	83	50	130
Hexachloroethane	1	39.1087	0	50	78	50	130
N-Nitroso-di-n-propylamine	1	43.2312	0	50	86	40	130
Nitrobenzene	1	43.6328	0	50	87	70	130
Isophorone	1	39.343	0	50	79	60	130
Benzoic Acid	1	31.0714	0	100	31	20	130
bis(2-Chloroethoxy)methane	1	42.9884	0	50	86	60	130
1,2,4-Trichlorobenzene	1	39.1443	0	50	78	50	130
Naphthalene	1	41.8277	0	50	84	50	130
4-Chloroaniline	1	34.9414	0	50	70	10	150
Hexachlorobutadiene	1	34.188	0	50	68	60	130
Caprolactam	1	45.5344	0	50	91	50	130
2-Methylnaphthalene	1	43.9391	0	50	88	70	130
1-Methylnaphthalene	1	40.669	0	50	81	70	130
1,1'-Biphenyl	1	37.8258	0	50	76	60	130
1,2,4,5-Tetrachlorobenzene	1	34.3871	0	50	69*	70	130
Hexachlorocyclopentadiene	1	14.7317	0	50	29	20	160
2-Chloronaphthalene	1	43.4601	0	50	87	70	130
1,4-Dimethylnaphthalene	1	39.4871	0	50	79	70	130
Diphenyl Ether	1	39.0049	0	50	78	70	130
2-Nitroaniline	1	49.0489	0	50	98	50	130
Coumarin	1	40.1774	0	50	80	70	130
Acenaphthylene	1	43.6176	0	50	87	70	130
Dimethylphthalate	1	44.0977	0	50	88	70	130
2,6-Dinitrotoluene	1	45.5563	0	50	91	70	130
Acenaphthene	1	45.1309	0	50	90	50	130
3-Nitroaniline	1	45.1603	0	50	90	70	130
Dibenzofuran	1	44.7158	0	50	89	70	130
2,4-Dinitrotoluene	1	44.7021	0	50	89	40	130
Fluorene	1	43.4479	0	50	87	50	130
4-Chlorophenyl-phenylether	1	41.2964	0	50	83	70	130
Diethylphthalate	1	45.3221	0	50	91	70	130
4-Nitroaniline	1	48.894	0	50	98	50	130
Atrazine	1	41.5787	0	50	83	50	130
n-Nitrosodiphenylamine	1	38.717	0	50	77	50	130
1,2-Diphenylhydrazine	1	52.7498	0	50	105	70	130
4-Bromophenyl-phenylether	1	38.8192	0	50	78	70	130
Hexachlorobenzene	1	30.785	0	50	62*	70	130
N-Octadecane	1	38.9674	0	50	78	70	130
Phenanthrene	1	46.1455	0	50	92	70	130
Anthracene	1	45.428	0	50	91	70	130
Carbazole	1	41.8884	0	50	84	70	130
Di-n-butylphthalate	1	53.0942	0	50	106	70	130
Fluoranthene	1	48.3592	3.5884	50	90	70	130
Pyrene	1	52.6537	3.8174	50	98	50	130
Benzidine	1	2.4798	0	50	5	0	130
Butylbenzylphthalate	1	62.6427	0	50	125	50	130
3,3'-Dichlorobenzidine	1	36.2396	0	50	72	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95427

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	46.0751	2.3552	50	87	70	130
Chrysene	1	49.009	2.7431	50	93	60	130
bis(2-Ethylhexyl)phthalate	1	64.7219	0	50	129	70	130
Di-n-octylphthalate	1	72.0822	0	50	144*	70	130
Benzo[b]fluoranthene	1	51.4712	4.0169	50	95	70	130
Benzo[k]fluoranthene	1	48.4258	0	50	97	70	130
Benzo[a]pyrene	1	46.1778	2.7684	50	87	70	130
Indeno[1,2,3-cd]pyrene	1	44.7997	0	50	90	70	130
Dibenzo[a,h]anthracene	1	42.9214	0	50	86	60	130
Benzo[g,h,i]perylene	1	43.9542	2.6416	50	83	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95427

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M109234.D	AD26843-002(MSD)	10/31/2021 1:18:00 PM
Non Spike(If applicable):	9M109206.D	AD26843-002	10/29/2021 6:47:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.5304	0	50	35	25	150
Pyridine	1	32.0745	0	50	64	1	150
N-Nitrosodimethylamine	1	38.1768	0	50	76	50	130
Benzaldehyde	1	32.2108	0	50	64	20	220
Aniline	1	30.8392	0	50	62	20	150
Pentachloroethane	1	36.6919	0	50	73	50	130
bis(2-Chloroethyl)ether	1	42.6949	0	50	85	50	130
N-Decane	1	29.1711	0	50	58	20	130
1,3-Dichlorobenzene	1	38.1708	0	50	76	60	130
1,4-Dichlorobenzene	1	42.2564	0	50	85	60	130
1,2-Dichlorobenzene	1	41.1822	0	50	82	50	130
Benzyl alcohol	1	49.5757	0	50	99	20	130
bis(2-chloroisopropyl)ether	1	44.003	0	50	88	40	130
Acetophenone	1	43.563	0	50	87	50	130
Hexachloroethane	1	41.2744	0	50	83	50	130
N-Nitroso-di-n-propylamine	1	47.5679	0	50	95	40	130
Nitrobenzene	1	47.1194	0	50	94	70	130
Isophorone	1	43.2956	0	50	87	60	130
Benzoic Acid	1	40.3201	0	100	40	20	130
bis(2-Chloroethoxy)methane	1	46.7368	0	50	93	60	130
1,2,4-Trichlorobenzene	1	41.906	0	50	84	50	130
Naphthalene	1	45.491	0	50	91	50	130
4-Chloroaniline	1	41.6962	0	50	83	10	150
Hexachlorobutadiene	1	36.743	0	50	73	60	130
Caprolactam	1	48.2232	0	50	96	50	130
2-Methylnaphthalene	1	47.6478	0	50	95	70	130
1-Methylnaphthalene	1	41.9328	0	50	84	70	130
1,1'-Biphenyl	1	38.9723	0	50	78	60	130
1,2,4,5-Tetrachlorobenzene	1	35.4237	0	50	71	70	130
Hexachlorocyclopentadiene	1	12.8237	0	50	26	20	160
2-Chloronaphthalene	1	46.4043	0	50	93	70	130
1,4-Dimethylnaphthalene	1	40.4865	0	50	81	70	130
Diphenyl Ether	1	40.0592	0	50	80	70	130
2-Nitroaniline	1	53.5044	0	50	107	50	130
Coumarin	1	42.0749	0	50	84	70	130
Acenaphthylene	1	47.1535	0	50	94	70	130
Dimethylphthalate	1	47.774	0	50	96	70	130
2,6-Dinitrotoluene	1	50.7488	0	50	101	70	130
Acenaphthene	1	48.241	0	50	96	50	130
3-Nitroaniline	1	49.7439	0	50	99	70	130
Dibenzofuran	1	47.8943	0	50	96	70	130
2,4-Dinitrotoluene	1	48.9658	0	50	98	40	130
Fluorene	1	46.3169	0	50	93	50	130
4-Chlorophenyl-phenylether	1	44.7127	0	50	89	70	130
Diethylphthalate	1	49.0876	0	50	98	70	130
4-Nitroaniline	1	53.3417	0	50	107	50	130
Atrazine	1	42.9553	0	50	86	50	130
n-Nitrosodiphenylamine	1	42.1517	0	50	84	50	130
1,2-Diphenylhydrazine	1	52.3884	0	50	105	70	130
4-Bromophenyl-phenylether	1	41.569	0	50	83	70	130
Hexachlorobenzene	1	32.9132	0	50	66*	70	130
N-Octadecane	1	39.6442	0	50	79	70	130
Phenanthrene	1	49.8539	0	50	100	70	130
Anthracene	1	48.3065	0	50	97	70	130
Carbazole	1	43.1254	0	50	86	70	130
Di-n-butylphthalate	1	57.6614	0	50	115	70	130
Fluoranthene	1	54.8409	3.5884	50	103	70	130
Pyrene	1	58.942	3.8174	50	110	50	130
Benzidine	1	2.8542	0	50	5.7	0	130
Butylbenzylphthalate	1	68.1362	0	50	136*	50	130
3,3'-Dichlorobenzidine	1	40.4083	0	50	81	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95427

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	49.7263	2.3552	50	95	70	130
Chrysene	1	52.8762	2.7431	50	100	60	130
bis(2-Ethylhexyl)phthalate	1	70.0015	0	50	140*	70	130
Di-n-octylphthalate	1	76.2447	0	50	152*	70	130
Benzo[b]fluoranthene	1	58.5775	4.0169	50	109	70	130
Benzo[k]fluoranthene	1	48.2024	0	50	96	70	130
Benzo[a]pyrene	1	49.0827	2.7684	50	93	70	130
Indeno[1,2,3-cd]pyrene	1	47.4801	0	50	95	70	130
Dibenzo[a,h]anthracene	1	45.7639	0	50	92	60	130
Benzo[g,h,i]perylene	1	45.7518	2.6416	50	86	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95427

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M109234.D	AD26843-002(MSD)	10/31/2021 1:18:00 PM
Duplicate(If applicable):	9M109233.D	AD26843-002(MS)	10/31/2021 12:55:00 P
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	17.5304	17.7773	1.4	30
Pyridine	1	32.0745	31.8421	0.73	30
N-Nitrosodimethylamine	1	38.1768	35.0924	8.4	30
Benzaldehyde	1	32.2108	31.0148	3.8	30
Aniline	1	30.8392	24.5691	23	30
Pentachloroethane	1	36.6919	34.693	5.6	30
bis(2-Chloroethyl)ether	1	42.6949	37.6516	13	30
N-Decane	1	29.1711	29.361	0.65	30
1,3-Dichlorobenzene	1	38.1708	35.4484	7.4	30
1,4-Dichlorobenzene	1	42.2564	37.9741	11	40
1,2-Dichlorobenzene	1	41.1822	37.8277	8.5	30
Benzyl alcohol	1	49.5757	44.7703	10	30
bis(2-chloroisopropyl)ether	1	44.003	40.1027	9.3	30
Acetophenone	1	43.563	41.4706	4.9	30
Hexachloroethane	1	41.2744	39.1087	5.4	30
N-Nitroso-di-n-propylamine	1	47.5679	43.2312	9.6	40
Nitrobenzene	1	47.1194	43.6328	7.7	30
Isophorone	1	43.2956	39.343	9.6	30
Benzoic Acid	1	40.3201	31.0714	26	30
bis(2-Chloroethoxy)methane	1	46.7368	42.9884	8.4	30
1,2,4-Trichlorobenzene	1	41.906	39.1443	6.8	40
Naphthalene	1	45.491	41.8277	8.4	40
4-Chloroaniline	1	41.6962	34.9414	18	30
Hexachlorobutadiene	1	36.743	34.188	7.2	30
Caprolactam	1	48.2232	45.5344	5.7	30
2-Methylnaphthalene	1	47.6478	43.9391	8.1	30
1-Methylnaphthalene	1	41.9328	40.669	3.1	30
1,1'-Biphenyl	1	38.9723	37.8258	3	30
1,2,4,5-Tetrachlorobenzene	1	35.4237	34.3871	3	30
Hexachlorocyclopentadiene	1	12.8237	14.7317	14	30
2-Chloronaphthalene	1	46.4043	43.4601	6.6	30
1,4-Dimethylnaphthalene	1	40.4865	39.4871	2.5	30
Diphenyl Ether	1	40.0592	39.0049	2.7	30
2-Nitroaniline	1	53.5044	49.0489	8.7	30
Coumarin	1	42.0749	40.1774	4.6	30
Acenaphthylene	1	47.1535	43.6176	7.8	30
Dimethylphthalate	1	47.774	44.0977	8	30
2,6-Dinitrotoluene	1	50.7488	45.5563	11	30
Acenaphthene	1	48.241	45.1309	6.7	40
3-Nitroaniline	1	49.7439	45.1603	9.7	30
Dibenzofuran	1	47.8943	44.7158	6.9	30
2,4-Dinitrotoluene	1	48.9658	44.7021	9.1	40
Fluorene	1	46.3169	43.4479	6.4	40
4-Chlorophenyl-phenylether	1	44.7127	41.2964	7.9	30
Diethylphthalate	1	49.0876	45.3221	8	30
4-Nitroaniline	1	53.3417	48.894	8.7	30
Atrazine	1	42.9553	41.5787	3.3	30
n-Nitrosodiphenylamine	1	42.1517	38.717	8.5	30
1,2-Diphenylhydrazine	1	52.3884	52.7498	0.69	30
4-Bromophenyl-phenylether	1	41.569	38.8192	6.8	30
Hexachlorobenzene	1	32.9132	30.785	6.7	30
N-Octadecane	1	39.6442	38.9674	1.7	30
Phenanthrene	1	49.8539	46.1455	7.7	30
Anthracene	1	48.3065	45.428	6.1	30
Carbazole	1	43.1254	41.8884	2.9	30
Di-n-butylphthalate	1	57.6614	53.0942	8.2	30
Fluoranthene	1	54.8409	48.3592	13	30
Pyrene	1	58.942	52.6537	11	40
Benzidine	1	2.8542	2.4798	14	30
Butylbenzylphthalate	1	68.1362	62.6427	8.4	40
3,3'-Dichlorobenzidine	1	40.4083	36.2396	11	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95427

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	49.7263	46.0751	7.6	30
Chrysene	1	52.8762	49.009	7.6	30
bis(2-Ethylhexyl)phthalate	1	70.0015	64.7219	7.8	30
Di-n-octylphthalate	1	76.2447	72.0822	5.6	30
Benzo[b]fluoranthene	1	58.5775	51.4712	13	30
Benzo[k]fluoranthene	1	48.2024	48.4258	0.46	30
Benzo[a]pyrene	1	49.0827	46.1778	6.1	30
Indeno[1,2,3-cd]pyrene	1	47.4801	44.7997	5.8	30
Dibenzo[a,h]anthracene	1	45.7639	42.9214	6.4	30
Benzo[g,h,i]perylene	1	45.7518	43.9542	4	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95427
Blank Data File: 9M109204.D
Matrix: Soil

Blank Analysis Date: 10/29/21 18:01
Blank Extraction Date: 10/29/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD26756-001	9M109263.D	11/01/21 11:36
AD26756-002	9M109264.D	11/01/21 11:59
AD26843-002(MSD	9M109234.D	10/31/21 13:18
AD26843-002(MS)	9M109233.D	10/31/21 12:55
AD26843-002	9M109206.D	10/29/21 18:47
SMB95427(MS)	5M118331.D	10/29/21 17:39

Form 5

Tune Name: CAL DFTPP **Data File:** 9M108708.D
Instrument: GCMS 9 **Analysis Date:** 10/13/21 08:48
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.178 to 10.183 min

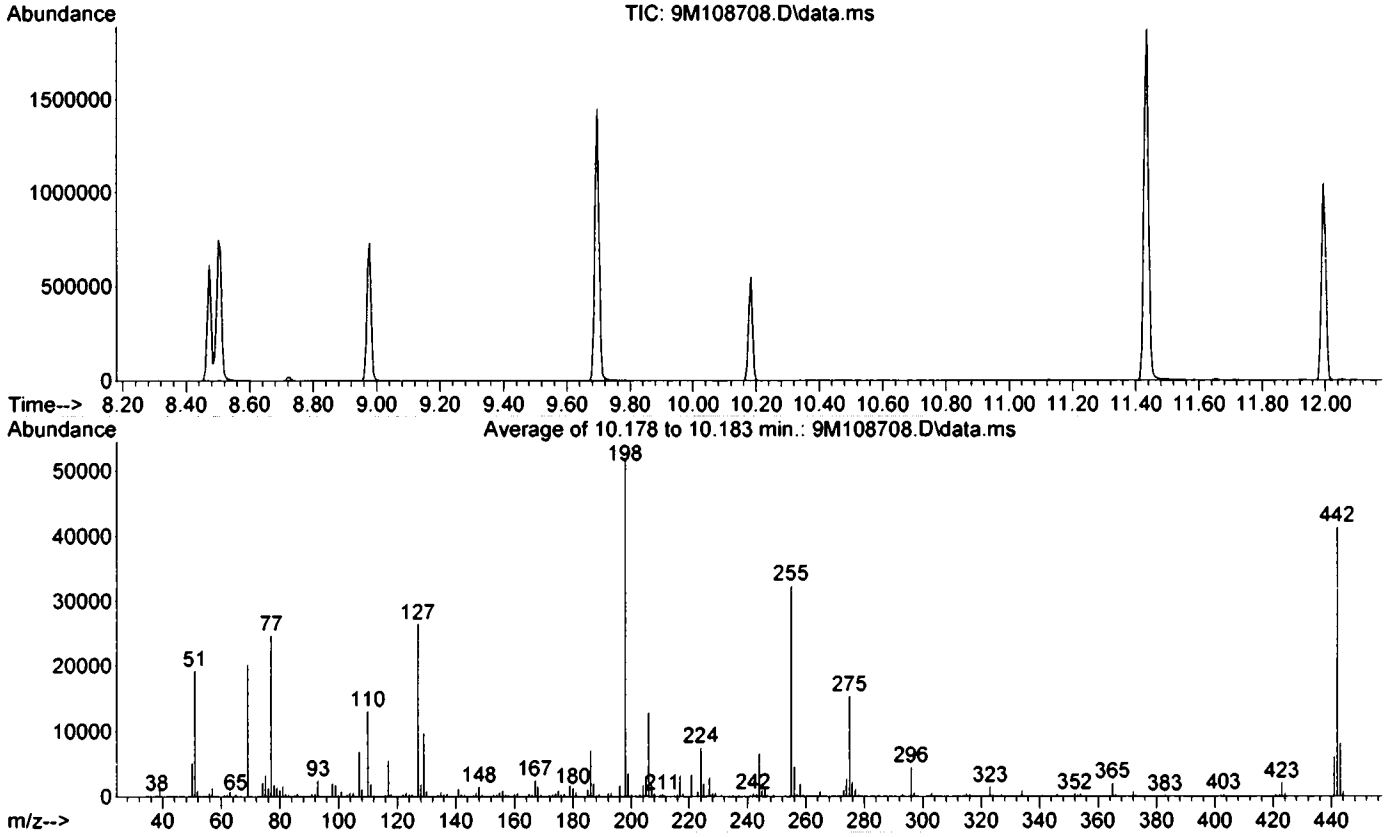
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

Data File	Sample Number	Analysis Date:
9M108709.D	CAL BNA@10PPM	10/13/21 09:10
9M108710.D	CAL BNA@2PPM	10/13/21 09:41
9M108711.D	CAL BNA@196PP	10/13/21 10:04
9M108712.D	CAL BNA@160PP	10/13/21 10:27
9M108713.D	CAL BNA@120PP	10/13/21 10:50
9M108714.D	CAL BNA@80PPM	10/13/21 11:13
9M108715.D	CAL BNA@20PPM	10/13/21 11:35
9M108716.D	CAL BNA@0.5PP	10/13/21 11:58
9M108717.D	CAL BNA@50PPM	10/13/21 12:21
9M108718.D	BNA@50PPM	10/13/21 12:44
9M108719.D	ICV BNA@50PPM	10/13/21 13:15
9M108720.D	SMB95218	10/13/21 13:38
9M108721.D	AD26497-002	10/13/21 14:01
9M108722.D	AD26497-003	10/13/21 14:24
9M108723.D	AD26497-004	10/13/21 14:47
9M108724.D	AD26497-005	10/13/21 15:10
9M108725.D	AD26383-001(30X)	10/13/21 15:34
9M108726.D	OMB95201	10/13/21 15:57
9M108727.D	SMB95218(MS)	10/13/21 16:20
9M108728.D	SMB95225	10/13/21 16:43
9M108729.D	SMB95225(MS)	10/13/21 17:06
9M108730.D	AD26503-007	10/13/21 17:29
9M108731.D	AD26503-002	10/13/21 17:52
9M108732.D	AD26503-015	10/13/21 18:15
9M108733.D	AD26503-009	10/13/21 18:38
9M108734.D	AD26503-005	10/13/21 19:01
9M108735.D	AD26503-001	10/13/21 19:24
9M108736.D	AD26404-001	10/13/21 19:47
9M108737.D	AD26404-001(MS)	10/13/21 20:10
9M108738.D	AD26404-001(MSD	10/13/21 20:33

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-13-21\
Data File : 9M108708.D
Acq On : 13 Oct 2021 8:48
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1012.M
Title : @GCMS_9,mg,625,8270
Last Update : Tue Oct 12 13:44:04 2021



Spectrum Information: Average of 10.178 to 10.183 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.0	19236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	20328	PASS
70	69	0.00	2	0.5	99	PASS
127	198	40	60	51.0	26500	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	51964	PASS
199	198	5	9	7.0	3631	PASS
275	198	10	30	29.6	15360	PASS
365	198	1	100	4.0	2062	PASS
441	443	0.01	100	75.5	6129	PASS
442	198	40	100	79.6	41372	PASS
443	442	17	23	19.6	8121	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 5M118178.D
Instrument: GCMS 5 **Analysis Date:** 10/13/21 09:17
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.957 to 9.962 min

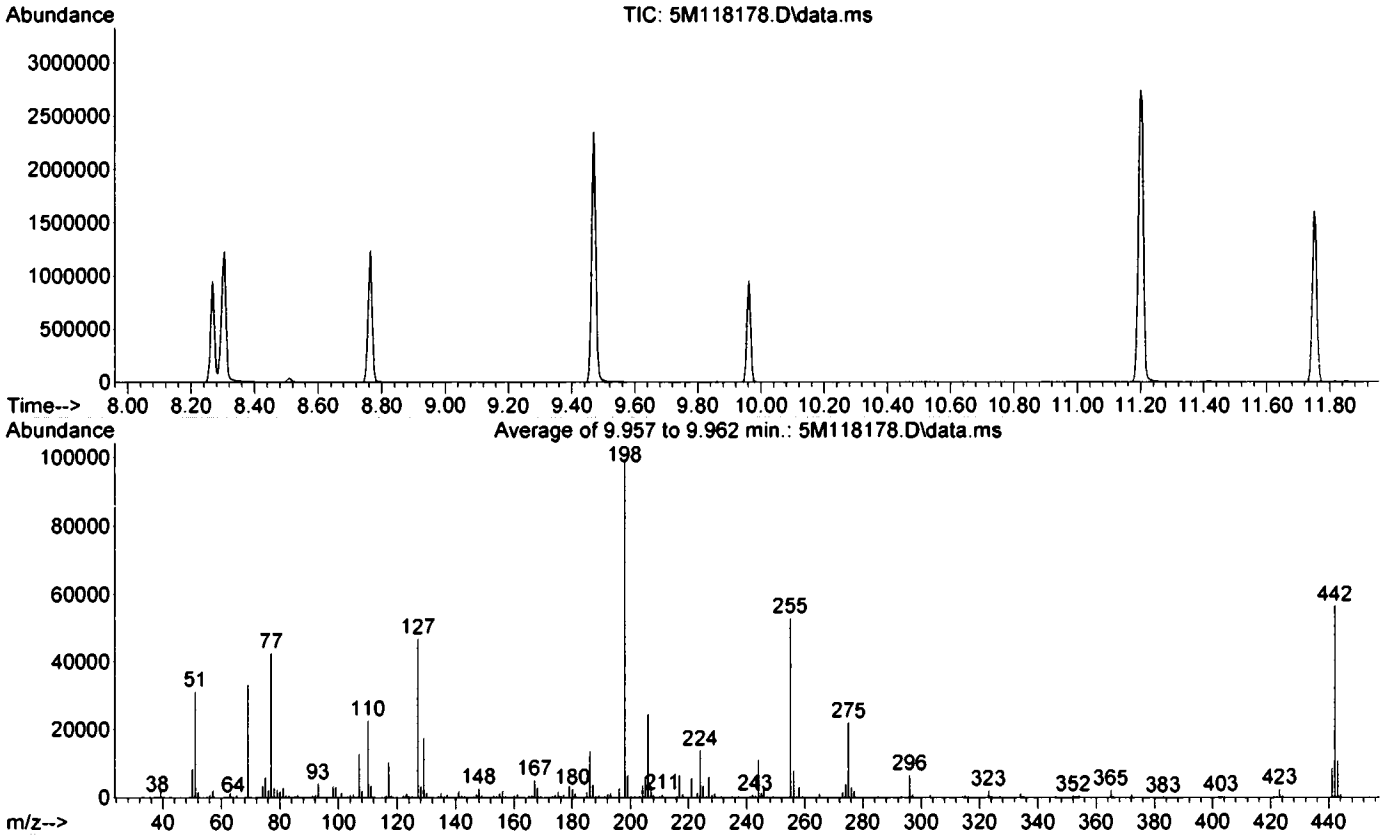
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.5	31284	PASS
68	69	0.00	2	0.8	273	PASS
69	198	0.00	100	33.6	33424	PASS
70	69	0.00	2	0.7	231	PASS
127	198	40	60	47.2	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99352	PASS
199	198	5	9	6.6	6600	PASS
275	198	10	30	22.3	22159	PASS
365	198	1	100	2.3	2334	PASS
441	443	0.01	100	79.0	8731	PASS
442	198	40	100	56.9	56568	PASS
443	442	17	23	19.5	11045	PASS

Data File	Sample Number	Analysis Date:
5M118179.D	CAL BNA@50PPM	10/13/21 09:46
5M118180.D	CAL BNA@10PPM	10/13/21 10:09
5M118181.D	CAL BNA@2PPM	10/13/21 10:32
5M118182.D	CAL BNA@196PP	10/13/21 10:56
5M118183.D	CAL BNA@160PP	10/13/21 11:20
5M118184.D	CAL BNA@120PP	10/13/21 11:51
5M118185.D	CAL BNA@80PPM	10/13/21 12:20
5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5M118187.D	CAL BNA@0.5PP	10/13/21 13:08
5M118188.D	ICV BNA@50PPM	10/13/21 13:34
5M118189.D	AD26497-008	10/13/21 14:00
5M118190.D	AD26497-007	10/13/21 14:24
5M118191.D	AD26509-002	10/13/21 14:48
5M118192.D	AD26509-001	10/13/21 15:12
5M118193.D	AD26503-021	10/13/21 15:35
5M118194.D	AD26497-007(MS)	10/13/21 15:59
5M118195.D	AD26497-007(MSD	10/13/21 16:23
5M118196.D	WMB95219	10/13/21 16:47

Data Path : G:\GcMsData\2021\GCMS_5\Data\10-13-21\
Data File : 5M118178.D
Acq On : 13 Oct 2021 9:17
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1011.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Oct 11 13:00:58 2021



Spectrum Information: Average of 9.957 to 9.962 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.5	31284	PASS
68	69	0.00	2	0.8	273	PASS
69	198	0.00	100	33.6	33424	PASS
70	69	0.00	2	0.7	231	PASS
127	198	40	60	47.2	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99352	PASS
199	198	5	9	6.6	6600	PASS
275	198	10	30	22.3	22159	PASS
365	198	1	100	2.3	2334	PASS
441	443	0.01	100	79.0	8731	PASS
442	198	40	100	56.9	56568	PASS
443	442	17	23	19.5	11045	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M118315.D
Analysis Date: 10/29/21 08:24
Method: EPA 8270E

Tune Scan/Time Range: Scan 1445

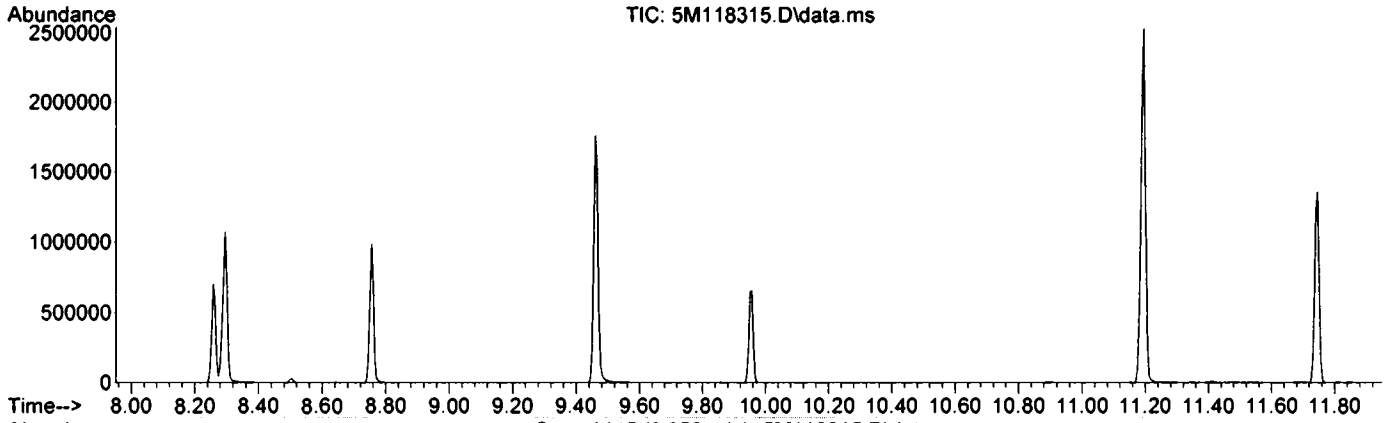
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.3	27680	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.0	29144	PASS
70	69	0.00	2	0.6	176	PASS
127	198	40	60	48.5	40376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83208	PASS
199	198	5	9	7.3	6061	PASS
275	198	10	30	21.3	17736	PASS
365	198	1	100	2.5	2046	PASS
441	443	0.01	100	72.4	6799	PASS
442	198	40	100	50.8	42288	PASS
443	442	17	23	22.2	9397	PASS

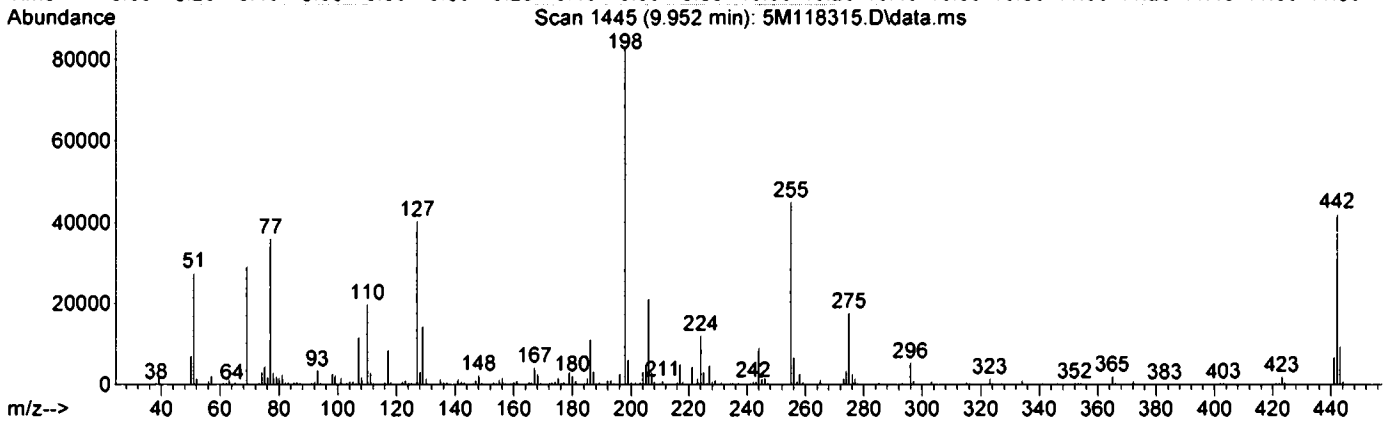
Data File	Sample Number	Analysis Date:
5M118316.D	CAL BNA@50PPM	10/29/21 08:54
5M118317.D	TEST	10/29/21 09:31
5M118318.D	WMB95414	10/29/21 09:54
5M118319.D	WMB95414(MS)	10/29/21 10:17
5M118320.D	AD26856-001(T)	10/29/21 10:41
5M118321.D	AD26856-001(T)(M	10/29/21 11:05
5M118322.D	AD26856-001(T)(M	10/29/21 11:28
5M118323.D	AD26856-002(T)	10/29/21 11:52
5M118324.D	EF1 V-360062(10/2	10/29/21 12:15
5M118325.D	AD26840-001(T)	10/29/21 12:38
5M118326.D	AD26840-001	10/29/21 13:02
5M118327.D	AD26759-006(R)	10/29/21 13:25
5M118328.D	AD26743-001(R)	10/29/21 13:49
5M118329.D	AD26855-001	10/29/21 14:12
5M118330.D	WMB95414(MS)(D	10/29/21 14:36
5M118331.D	SMB95427(MS)	10/29/21 17:39
5M118332.D	SMB95427	10/29/21 18:16

Data Path : G:\GcMsData\2021\GCMS_5\Data\10-29-21\
Data File : 5M118315.D
Acq On : 29 Oct 2021 8:24
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1013.M
Title : @GCMS_5,mg,625,8270
Last Update : Wed Oct 13 13:26:27 2021





Spectrum Information: Scan 1445

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.3	27680	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.0	29144	PASS
70	69	0.00	2	0.6	176	PASS
127	198	40	60	48.5	40376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83208	PASS
199	198	5	9	7.3	6061	PASS
275	198	10	30	21.3	17736	PASS
365	198	1	100	2.5	2046	PASS
441	443	0.01	100	72.4	6799	PASS
442	198	40	100	50.8	42288	PASS
443	442	17	23	22.2	9397	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109202.D
Analysis Date: 10/29/21 17:16
Method: EPA 8270E

Tune Scan/Time Range: Scan 1316

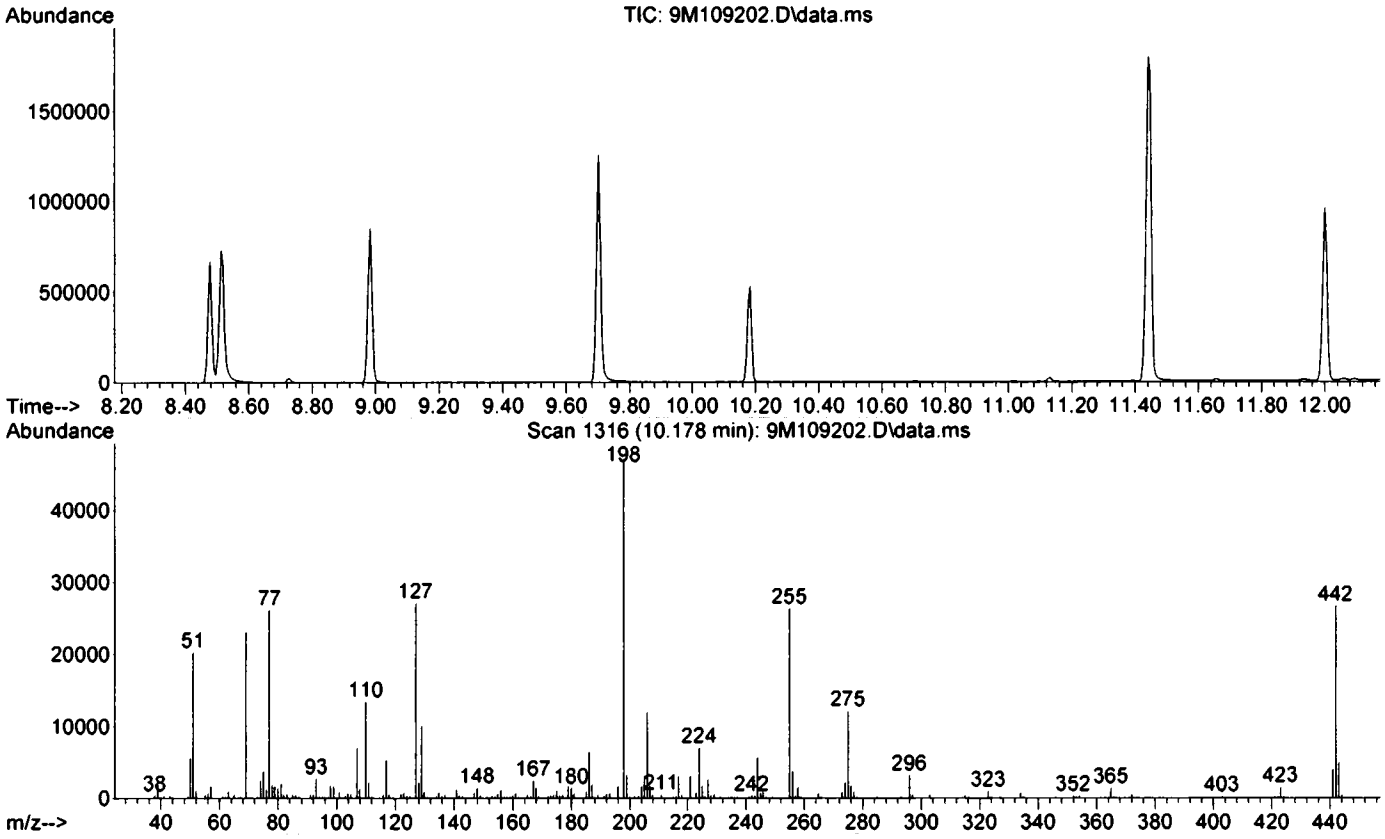
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	43.0	20280	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	23144	PASS
70	69	0.00	2	0.8	185	PASS
127	198	40	60	57.5	27080	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47112	PASS
199	198	5	9	6.8	3211	PASS
275	198	10	30	25.7	12113	PASS
365	198	1	100	3.0	1399	PASS
441	443	0.01	100	81.3	4053	PASS
442	198	40	100	56.6	26656	PASS
443	442	17	23	18.7	4986	PASS

Data File	Sample Number	Analysis Date:
9M109203.D	CAL BNA@50PPM	10/29/21 17:37
9M109204.D	SMB95427	10/29/21 18:01
9M109205.D	AD26838-012	10/29/21 18:24
9M109206.D	AD26843-002	10/29/21 18:47
9M109207.D	AD26843-004	10/29/21 19:10
9M109208.D	AD26844-004	10/29/21 19:33
9M109209.D	AD26940-001(5X)(	10/29/21 19:56
9M109210.D	AD26941-001(5X)	10/29/21 20:19
9M109211.D	AD26861-002(MS)	10/29/21 20:42
9M109212.D	AD26861-002(MSD	10/29/21 21:05
9M109213.D	AD26682-008(10X)	10/29/21 21:28
9M109214.D	AD26679-005(10X)	10/29/21 21:51
9M109215.D	AD26679-001(10X)	10/29/21 22:14
9M109216.D	AD26679-001(10X)	10/29/21 22:38
9M109217.D	AD26679-001(10X)	10/29/21 23:01
9M109218.D	AD26681-002(3X)	10/29/21 23:24
9M109219.D	AD26682-007(3X)	10/29/21 23:47
9M109220.D	AD26679-007(20X)	10/30/21 00:10
9M109221.D	AD26679-006(20X)	10/30/21 00:33
9M109222.D	AD26679-004(20X)	10/30/21 00:56
9M109223.D	AD26679-003(20X)	10/30/21 01:19
9M109224.D	AD26679-002(20X)	10/30/21 01:42
9M109225.D	AD26679-008(20X)	10/30/21 02:05
9M109226.D	AD26681-004	10/30/21 02:28
9M109227.D	AD26681-003	10/30/21 02:52
9M109228.D	AD26681-001	10/30/21 03:15

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-2921\
Data File : 9M109202.D
Acq On : 29 Oct 2021 17:16
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1013.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Oct 13 12:40:21 2021



Spectrum Information: Scan 1316

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.0	20280	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	23144	PASS
70	69	0.00	2	0.8	185	PASS
127	198	40	60	57.5	27080	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47112	PASS
199	198	5	9	6.8	3211	PASS
275	198	10	30	25.7	12113	PASS
365	198	1	100	3.0	1399	PASS
441	443	0.01	100	81.3	4053	PASS
442	198	40	100	56.6	26656	PASS
443	442	17	23	18.7	4986	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109229.D
Analysis Date: 10/31/21 10:48
Method: EPA 8270E

Tune Scan/Time Range: Scan 1316

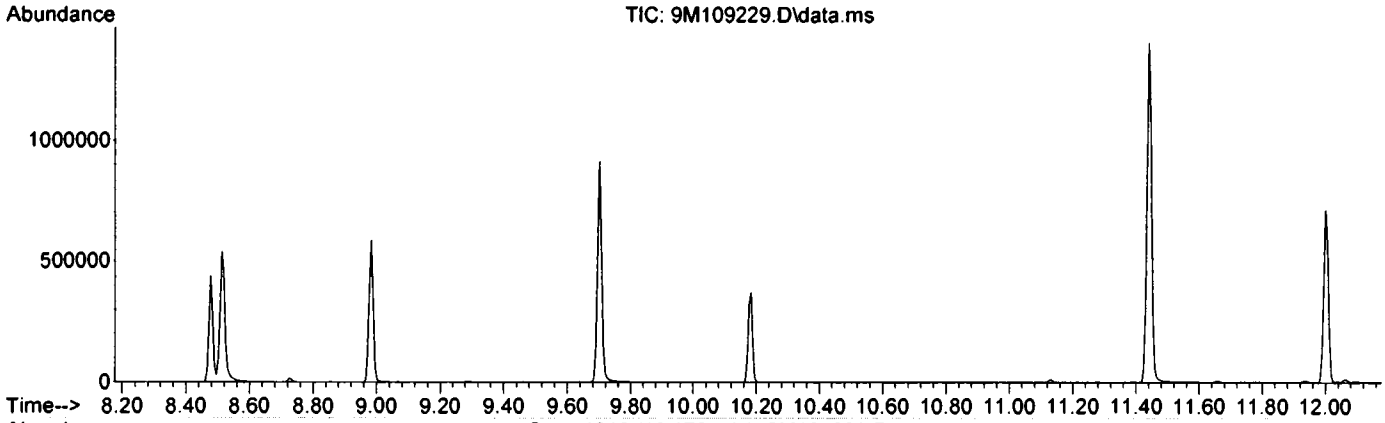
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	48.4	16720	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.9	16904	PASS
70	69	0.00	2	1.1	187	PASS
127	198	40	60	57.5	19896	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	34576	PASS
199	198	5	9	7.8	2695	PASS
275	198	10	30	26.2	9059	PASS
365	198	1	100	2.6	895	PASS
441	443	0.01	100	76.0	2981	PASS
442	198	40	100	57.5	19864	PASS
443	442	17	23	19.7	3922	PASS

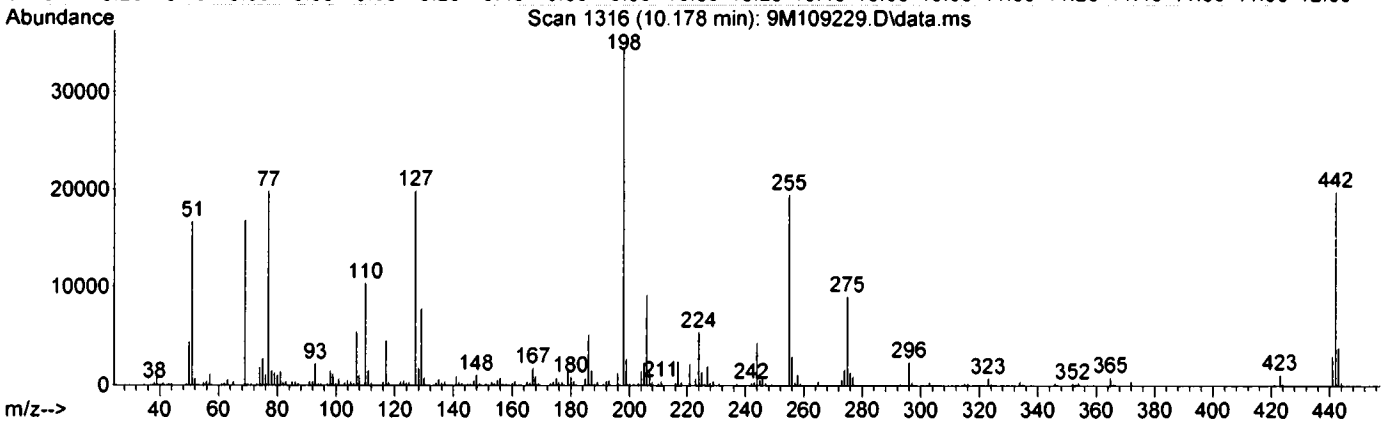
Data File	Sample Number	Analysis Date:
9M109230.D	CAL BNA@50PPM	10/31/21 11:20
9M109231.D	SMB95440	10/31/21 12:09
9M109232.D	OMB95441	10/31/21 12:32
9M109233.D	AD26843-002(MS)	10/31/21 12:55
9M109234.D	AD26843-002(MSD	10/31/21 13:18
9M109235.D	AD26933-001	10/31/21 13:41
9M109236.D	AD26933-001(MS)	10/31/21 14:04
9M109237.D	AD26933-001(MSD	10/31/21 14:27
9M109238.D	AD26876-001	10/31/21 14:51
9M109239.D	AD26943-001	10/31/21 15:14
9M109240.D	AD26913-001	10/31/21 15:37
9M109241.D	AD26783-001	10/31/21 16:00
9M109242.D	AD26767-001	10/31/21 16:23
9M109243.D	AD26880-001	10/31/21 16:46
9M109244.D	AD26881-001	10/31/21 17:09
9M109245.D	AD26812-002	10/31/21 17:32
9M109246.D	AD26918-001	10/31/21 17:55
9M109247.D	AD26918-004	10/31/21 18:18
9M109248.D	AD26799-001(5X)	10/31/21 18:42
9M109249.D	AD26966-001(3X)	10/31/21 19:04
9M109250.D	AD26966-002(3X)	10/31/21 19:28
9M109251.D	AD26966-003(3X)	10/31/21 19:51
9M109252.D	AD26817-001(3X)	10/31/21 20:14
9M109253.D	AD26925-001(3X)	10/31/21 20:37
9M109254.D	AD26799-001(5X)(	10/31/21 21:00
9M109255.D	AD26799-001(5X)(	10/31/21 21:23
9M109256.D	26717-001(3X)	10/31/21 21:46
9M109257.D	AD26918-010(3X)	10/31/21 22:09
9M109258.D	AD26918-007(3X)	10/31/21 22:32
9M109259.D	AD26882-001(3X)	10/31/21 22:56

Data Path : G:\GcMsData\2021\GCMS_9\Data\10-31-21\
Data File : 9M109229.D
Acq On : 31 Oct 2021 10:48
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1013.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Oct 13 12:40:21 2021





Spectrum Information: Scan 1316

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.4	16720	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.9	16904	PASS
70	69	0.00	2	1.1	187	PASS
127	198	40	60	57.5	19896	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	34576	PASS
199	198	5	9	7.8	2695	PASS
275	198	10	30	26.2	9059	PASS
365	198	1	100	2.6	895	PASS
441	443	0.01	100	76.0	2981	PASS
442	198	40	100	57.5	19864	PASS
443	442	17	23	19.7	3922	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109260.D
Analysis Date: 11/01/21 09:35
Method: EPA 8270E

Tune Scan/Time Range: Scan 1317

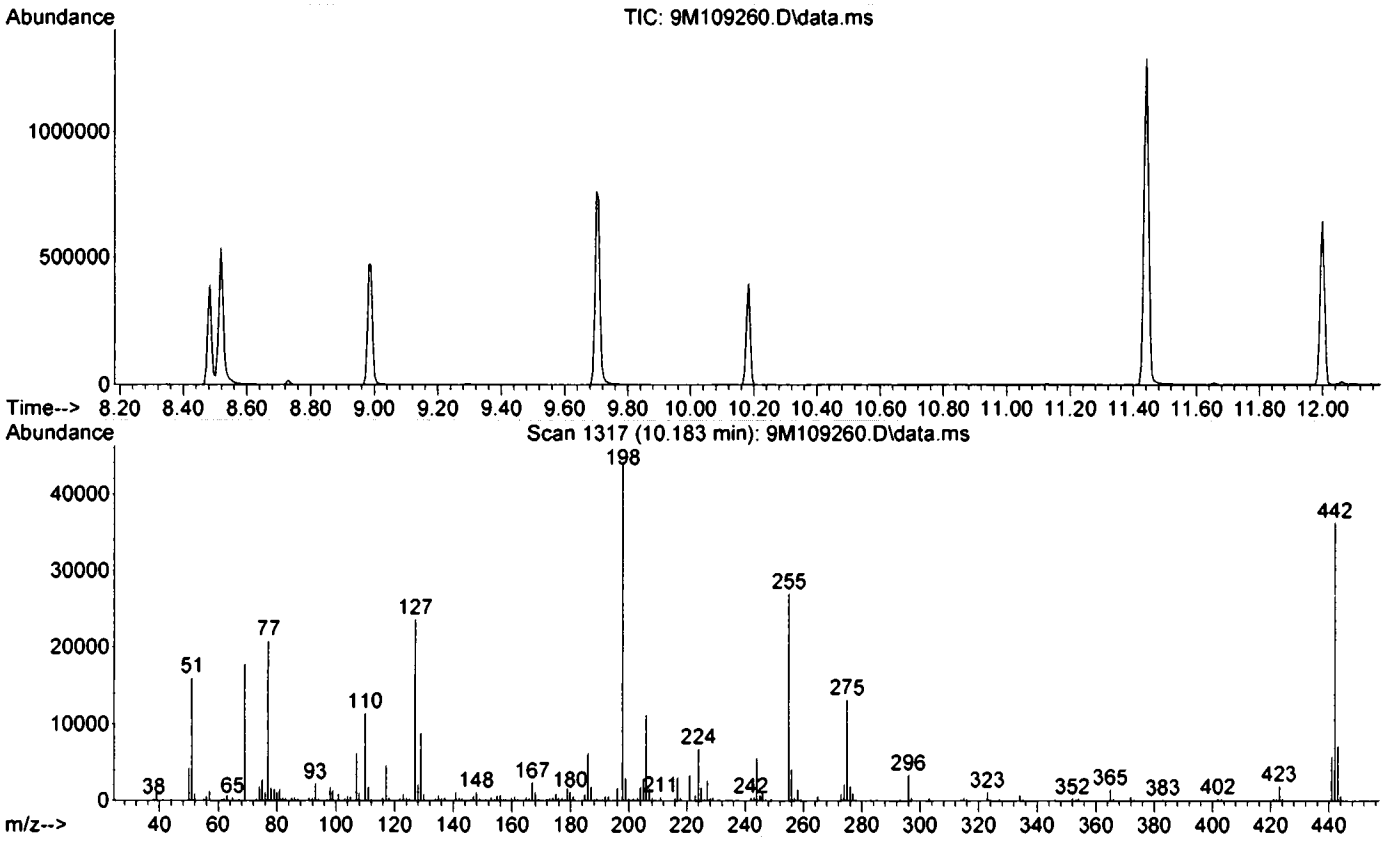
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	36.2	15998	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	17864	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.5	23656	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44192	PASS
199	198	5	9	6.7	2974	PASS
275	198	10	30	29.9	13212	PASS
365	198	1	100	3.5	1538	PASS
441	443	0.01	100	81.9	5877	PASS
442	198	40	100	82.3	36360	PASS
443	442	17	23	19.7	7172	PASS

Data File	Sample Number	Analysis Date:
9M109261.D	CAL BNA@50PPM	11/01/21 10:32
9M109262.D	AD26933-002	11/01/21 11:13
9M109263.D	AD26756-001	11/01/21 11:36
9M109264.D	AD26756-002	11/01/21 11:59
9M109265.D	26799-001(5X)(MS)	11/01/21 12:50
9M109266.D	26799-001(5X)(MS)	11/01/21 13:19
9M109267.D	26799-001(5X)(MS	11/01/21 13:42
9M109268.D	AD26882-001(3X)	11/01/21 14:05
9M109269.D	AD26717-001(3X)	11/01/21 14:28
9M109270.D	SMB95366	11/01/21 14:51
9M109271.D	AD26918-007(10X)	11/01/21 15:14
9M109272.D	AD26918-010(10X)	11/01/21 15:37
9M109273.D	AD26817-001(20X)	11/01/21 16:00
9M109274.D	AD26679-006(60X)	11/01/21 16:23
9M109275.D	AD26679-004(60X)	11/01/21 16:46
9M109276.D	AD26988-001	11/01/21 18:05
9M109277.D	AD26971-001	11/01/21 18:27
9M109278.D	AD26971-007	11/01/21 18:50
9M109279.D	AD26974-003	11/01/21 19:13
9M109280.D	AD26816-004	11/01/21 19:36
9M109281.D	AD26971-004	11/01/21 19:59
9M109282.D	AD26971-010	11/01/21 20:22

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-01-21\
Data File : 9M109260.D
Acq On : 1 Nov 2021 9:35
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1013.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Oct 13 12:40:21 2021



Spectrum Information: Scan 1317

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	15998	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	17864	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.5	23656	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44192	PASS
199	198	5	9	6.7	2974	PASS
275	198	10	30	29.9	13212	PASS
365	198	1	100	3.5	1538	PASS
441	443	0.01	100	81.9	5877	PASS
442	198	40	100	82.3	36360	PASS
443	442	17	23	19.7	7172	PASS

1102001 0103

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.9844	0.9335	1.2197	1.0389	0.9882	0.9963	0.9891	1.0915	1.0658	1.03	2.60	0.995	0.998	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0198	1.9571	1.7976	2.1199	2.1724	2.1764	2.2225	2.4168	----	2.11	3.05	0.995	0.999	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4619	1.5305	1.3691	1.5127	1.5019	1.5268	1.5346	1.6693	----	1.51	3.00	0.996	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.4646	1.5021	1.3446	1.5066	1.5569	1.6098	1.6047	1.7644	----	1.54	4.59	0.995	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.2569	1.3547	1.1993	1.3102	1.2976	1.3046	1.3465	1.4258	----	1.31	5.42	0.997	1.00	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.4285	2.6063	2.3300	2.5218	2.4553	2.5121	2.5343	2.7651	2.5925	2.53	5.51	0.997	0.999	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.5610	0.6179	0.5456	0.5992	0.5825	0.5889	0.6052	0.6653	----	0.596	5.56	0.994	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.6300	1.8882	1.6321	1.7170	1.6663	1.6707	1.7069	1.8450	1.8064	1.73	5.57	0.996	0.999	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	1.8261	1.9022	1.7103	1.8934	1.9141	1.9393	2.0317	2.1762	----	1.92	5.47	0.995	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.2448	2.3790	2.1196	2.3142	2.2779	2.3298	2.4010	2.5826	----	2.33	5.49	0.997	1.00	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.6722	1.7904	1.5730	1.7926	1.7490	1.7535	1.7858	1.9388	----	1.76	5.61	0.997	0.999	6.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.5298	1.8118	1.5142	1.5931	1.5174	1.4638	1.5280	1.5615	----	1.56	5.65	0.999	0.999	6.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	1.8442	2.2220	1.8588	1.9888	1.9086	1.9290	1.9624	2.1264	----	1.98	5.74	0.996	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.5448	1.8035	1.5104	1.5930	1.5837	1.6298	1.6574	1.8317	----	1.64	5.81	0.994	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.4652	1.6488	1.4444	1.4864	1.4811	1.5413	1.5294	1.7348	----	1.54	5.93	0.992	0.997	6.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8591	0.7885	0.7618	0.8624	0.9071	0.9605	0.9467	1.0706	----	0.895	5.91	0.992	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3808	1.5942	1.3949	1.3966	1.3481	1.3672	1.3653	1.5275	----	1.42	6.02	0.997	0.998	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2047	1.1919	1.1534	1.2075	1.2382	1.2865	1.3015	1.4489	1.0969	1.24	5.99	0.994	0.999	8.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8698	1.8249	1.7324	1.8340	1.8424	1.7720	1.7202	1.8582	----	1.81	6.12	0.999	0.999	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5617	0.6087	0.5323	0.5770	0.5812	0.6089	0.6045	0.6845	----	0.595	6.21	0.992	0.998	7.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9119	0.8232	0.8118	0.8877	0.8800	0.8370	0.8154	0.8880	0.7362	0.844	6.12	0.997	0.997	6.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3615	1.2114	1.1905	1.3114	1.3665	1.3445	1.2984	1.3743	1.0959	1.28	6.12	0.999	0.999	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1429	0.1211	0.1215	0.1407	0.1510	0.1616	0.1602	0.1727	----	0.147	6.24	0.996	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3197	0.2959	0.2885	0.3187	0.3272	0.3391	0.3403	0.3739	----	0.325	6.26	0.995	0.999	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6141	0.5388	0.5456	0.6133	0.6445	0.6667	0.6552	0.7127	----	0.624	6.45	0.997	0.999	9.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1714	0.1248	0.1377	0.1645	0.1837	0.2001	0.1997	0.2151	----	0.175	6.51	0.995	0.999	18	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3405	0.3097	0.3032	0.3381	0.3396	0.3608	0.3646	0.3917	0.2727	0.336	6.53	0.996	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1388	----	0.0432	0.1001	0.1979	0.2300	0.2330	0.2573	----	0.172	6.59	0.992	0.998	46		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3829	0.3931	0.3643	0.3930	0.4000	0.4201	0.4140	0.4558	----	0.403	6.61	0.995	0.998	6.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2914	0.2370	0.2563	0.2860	0.3054	0.3212	0.3205	0.3559	0.2033	0.286	6.69	0.995	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.3298	0.3510	0.3169	0.3360	0.3488	0.3618	0.3676	0.3983	----	0.351	6.76	0.995	0.999	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0225	1.1077	0.9711	1.0288	1.0399	1.0757	1.0704	1.1597	1.2131	1.08	6.82	0.997	0.999	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4164	0.3806	0.3830	0.4166	0.4261	0.4331	0.4286	0.4547	0.3469	0.410	6.85	0.998	0.999	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1960	0.2038	0.1813	0.2013	0.2002	0.2110	0.2123	0.2297	----	0.204	6.90	0.996	0.999	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.0936	0.0530	0.0702	0.0932	0.0985	0.1048	0.1048	0.1271	----	0.0932	7.13	0.981	0.994	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2661	0.2097	0.2330	0.2715	0.2827	0.3002	0.3038	0.3261	----	0.274	7.21	0.996	1.00	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7162	0.6980	0.6510	0.6906	0.7355	0.7585	0.7533	0.8054	----	0.726	7.35	0.998	0.999	6.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6584	0.6651	0.6004	0.6657	0.6524	0.7098	0.6986	0.7731	----	0.678	7.43	0.994	0.998	7.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6811	0.6816	0.6213	0.6731	0.6903	0.7299	0.7217	0.7838	----	0.698	7.35	0.997	0.999	6.9		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.8118	0.8574	0.7719	0.8364	0.8565	0.8952	0.9042	0.9776	----	0.864	7.72	0.996	0.999	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.6554	0.6844	0.5956	0.6821	0.7044	0.7476	0.7491	0.8005	----	0.702	7.48	0.997	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 11.9
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0104

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3832	0.2764	0.2826	0.3402	0.4086	0.4490	0.4512	0.4959	-----	0.386	7.47	0.994	0.999	21	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3938	0.3047	0.3318	0.3935	0.4381	0.4745	0.4729	0.5101	-----	0.415	7.57	0.996	0.999	17	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4233	0.3335	0.3658	0.4221	0.4732	0.4914	0.4921	0.5291	-----	0.441	7.60	0.996	0.999	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3372	1.4952	1.3010	1.4124	1.4315	1.4578	1.4925	1.6357	-----	1.45	7.64	0.995	0.999	7.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2315	1.3035	1.1890	1.3011	1.3207	1.3762	1.3863	1.4882	-----	1.32	7.75	0.996	0.999	7.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0608	1.0544	0.9477	1.0434	1.1246	1.1206	1.1040	1.1574	-----	1.08	8.03	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0608	1.0544	0.9477	1.0434	1.1246	1.1206	1.1040	1.1574	-----	1.08	8.03	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8500	0.9126	0.7953	0.8794	0.9121	0.9645	0.9684	1.0310	-----	0.914	7.81	0.997	1.00	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.3593	0.2570	0.2916	0.3466	0.3801	0.3900	0.3960	0.4184	-----	0.355	7.83	0.998	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4863	0.4363	0.4378	0.4884	0.5231	0.5335	0.5279	0.5557	-----	0.499	8.01	0.999	0.999	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8805	1.8740	1.7505	1.9037	1.9522	2.0456	2.0728	2.2158	-----	1.96	8.10	0.997	1.00	7.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3312	1.3469	1.2708	1.4090	1.4216	1.4775	1.5060	1.6054	-----	1.42	7.97	0.996	1.00	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3241	0.2242	0.2637	0.3139	0.3450	0.3432	0.3449	0.3587	-----	0.315	8.03	0.999	1.00	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2390	1.3202	1.1601	1.2523	1.3127	1.3519	1.3822	1.4616	-----	1.31	8.26	0.997	1.00	7.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3298	0.2330	0.2844	0.3399	0.3627	0.3773	0.3745	0.4030	-----	0.338	8.18	0.997	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1219	-----	0.0481	0.0788	0.1436	0.1732	0.1798	0.1980	-----	0.135	8.27	0.988	0.999	41	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7437	1.8400	1.6407	1.8096	1.8335	1.9051	1.9083	2.0790	2.0215	1.86	8.41	0.996	0.999	7.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3789	0.2182	0.3017	0.3766	0.4269	0.4567	0.4644	0.5096	-----	0.392	8.39	0.994	0.999	24	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2063	0.0773	0.1428	0.1779	0.2312	0.2437	0.2437	0.2687	-----	0.199	8.30	0.995	0.999	32	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Qua	0.3458	0.2673	0.3023	0.3616	0.3874	0.4278	0.4332	0.4742	-----	0.375	8.51	0.993	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4487	1.4023	1.2792	1.4268	1.5416	1.6144	1.6087	1.7245	-----	1.51	8.73	0.997	0.999	9.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7197	0.6954	0.6420	0.7217	0.7793	0.8200	0.8221	0.8747	-----	0.759	8.72	0.997	0.999	10	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2533	1.2376	1.1600	1.3075	1.3799	1.4330	1.4390	1.5582	-----	1.35	8.60	0.996	0.999	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3663	0.2241	0.2894	0.3583	0.3892	0.4116	0.4068	0.4429	-----	0.361	8.74	0.996	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.3687	0.2923	0.3040	0.3722	0.4095	0.4327	0.4421	0.4859	-----	0.388	9.36	0.993	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0985	-----	0.0544	0.0762	0.1144	0.1330	0.1344	0.1480	-----	0.108	8.77	0.991	0.999	31	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6250	0.5974	0.5487	0.6391	0.6608	0.7110	0.6886	0.7686	-----	0.655	8.83	0.995	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1017	0.0702	0.0806	0.0989	0.1101	0.1211	0.1199	0.1325	-----	0.104	8.96	0.994	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7280	0.6175	0.5933	0.6653	0.7477	0.6958	0.7547	0.8286	-----	0.704	8.87	0.995	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2076	0.1998	0.1888	0.2159	0.2336	0.2490	0.2473	0.2812	-----	0.228	9.21	0.991	0.998	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2269	0.2453	0.2147	0.2417	0.2450	0.2560	0.2586	0.2871	-----	0.247	9.27	0.993	0.999	8.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3653	0.3138	0.3124	0.3615	0.3743	0.3756	0.3647	0.3873	-----	0.357	9.53	0.999	0.999	7.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1258	-----	0.0813	0.1133	0.1472	0.1618	0.1662	0.1852	-----	0.140	9.47	0.992	0.999	25	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0850	1.1585	1.0059	1.1304	1.1426	1.2263	1.1929	1.3106	-----	1.16	9.71	0.996	0.999	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1319	1.0208	0.9840	1.1163	1.1784	1.2487	1.2424	1.3389	-----	1.16	9.76	0.997	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9990	0.8857	0.8826	1.0211	1.0703	1.1398	1.1004	1.2164	-----	1.04	9.94	0.995	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1276	0.7946	0.8687	1.1001	1.2349	1.3038	1.2905	1.4022	0.6491	1.09	10.31	0.996	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1956	0.9992	0.9973	1.1804	1.2974	1.3797	1.3624	1.4863	-----	1.24	11.04	0.996	0.999	14	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3470	1.2999	1.2330	1.3759	1.3863	1.4420	1.4303	1.5373	-----	1.38	11.30	0.997	0.999	6.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7386	0.3616	0.5121	0.6989	0.8002	0.8244	0.8168	0.8633	-----	0.702	11.20	0.997	0.999	25		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6034	0.6413	0.5667	0.6599	0.6574	0.6951	0.7065	0.7905	-----	0.665	11.48	0.991	0.998	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags	*Note:* Avg Rsd: 11.9
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0105

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118179.D	CAL BNA@50PPM	10/13/21 09:46	2	5M118181.D	CAL BNA@2PPM	10/13/21 10:32
3	5M118180.D	CAL BNA@10PPM	10/13/21 10:09	4	5M118186.D	CAL BNA@20PPM	10/13/21 12:44
5	5M118185.D	CAL BNA@80PPM	10/13/21 12:20	6	5M118184.D	CAL BNA@120PPM	10/13/21 11:51
7	5M118183.D	CAL BNA@160PPM	10/13/21 11:20	8	5M118182.D	CAL BNA@196PPM	10/13/21 10:56
9	5M118187.D	CAL BNA@0.5PPM	10/13/21 13:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2559	0.2457	0.2286	0.2652	0.2730	0.2972	0.3056	0.3350	-----	0.276	11.42	0.992	0.999	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4369	0.3323	0.3630	0.4553	0.4881	0.4983	0.5144	0.5468	-----	0.454	11.82	0.996	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4880	0.2881	0.3628	0.4841	0.5505	0.5807	0.5829	-----	-----	0.477	12.08	0.998	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0		
4,4'-DDT	1	0	Qua	0.4261	0.2617	0.3150	0.3905	0.4583	0.4719	0.4753	0.4993	-----	0.412	12.17	0.998	1.00	21		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4330	0.2632	0.3330	0.4466	0.5004	0.5156	0.5162	0.5593	-----	0.446	12.70	0.996	0.999	23	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2442	1.2581	1.1237	1.3095	1.3238	1.4130	1.4024	1.5465	-----	1.33	12.72	0.994	0.999	9.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.3258	1.3406	1.1729	1.3328	1.3591	1.3220	1.3293	1.4342	-----	1.33	12.77	0.997	0.998	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7886	0.4104	0.5574	0.7349	0.8430	0.8356	0.8163	0.8761	-----	0.733	12.77	0.998	0.999	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.0694	0.4703	0.7008	1.0146	1.2477	1.3525	1.3965	1.4923	-----	1.09	13.51	0.995	1.00	33	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1058	0.9993	0.9808	1.1920	1.2411	1.3236	1.3983	1.4559	-----	1.21	13.93	0.993	1.00	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1656	1.0856	1.0514	1.2025	1.2044	1.2868	1.3181	1.4507	-----	1.22	13.96	0.993	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Qua	1.0755	0.9138	0.9348	1.0553	1.1714	1.2552	1.2924	1.4057	-----	1.14	14.29	0.993	1.00	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Qua	1.1943	1.1099	1.0096	1.2084	1.3006	1.4175	1.5088	1.6207	-----	1.30	15.65	0.990	1.00	16	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0081	0.9143	0.8520	0.9998	1.0926	1.1935	1.2590	1.3507	-----	1.08	15.67	0.993	1.00	16	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9995	0.9960	0.9077	1.0117	1.0614	1.1559	1.1874	1.2792	-----	1.07	16.03	0.994	1.00	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 11.9
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0105

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9967	1.2587	0.9821	1.0511	1.0153	1.0078	1.0099	1.0990	1.0847	1.06	2.84	0.998	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.1791	2.0556	1.8617	2.2586	2.2815	2.2742	2.2705	2.4575	----	2.20	3.29	0.997	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5572	1.5979	1.4786	1.6325	1.6047	1.6170	1.6167	1.7398	----	1.61	3.24	0.998	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.4221	2.5841	2.2341	2.4896	2.5154	2.5095	2.5256	2.6466	----	2.49	4.77	0.999	1.00	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.0211	2.2026	1.9797	2.1751	2.1512	2.1183	2.1124	2.2106	----	2.12	5.60	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.8157	4.2856	3.7093	4.1026	3.9736	3.8771	3.8815	4.0444	4.5998	4.03	5.69	0.999	0.999	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8633	0.9564	0.8304	0.9149	0.8978	0.8910	0.8906	0.9426	----	0.898	5.73	0.998	0.999	4.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4637	2.8983	2.4493	2.6227	2.5602	2.5214	2.5125	2.6315	2.9209	2.62	5.74	0.999	0.999	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9016	3.0275	2.7234	3.0537	3.0375	2.9786	2.9559	3.1087	----	2.97	5.64	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.5176	4.0101	3.4491	3.7201	3.6421	3.5766	3.5502	3.7101	----	3.65	5.65	0.999	0.999	4.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.6895	2.7936	2.5896	2.8354	2.7964	2.7785	2.7484	2.8730	----	2.76	5.78	0.999	0.999	3.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.3069	2.8347	2.3718	2.4694	2.3978	2.3390	2.3015	2.3993	----	2.43	5.82	0.999	0.999	7.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.0576	3.4863	2.9330	3.2223	3.0602	2.9992	2.9263	3.0939	----	3.10	5.92	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5601	1.8255	1.5759	1.6233	1.5845	1.5758	1.5519	1.7277	----	1.63	5.98	0.995	0.997	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4744	1.7771	1.5216	1.5356	1.4876	1.4909	1.4640	1.6198	----	1.55	6.11	0.995	0.998	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8832	0.9251	0.8568	0.8971	0.9273	0.9321	0.9374	1.0272	----	0.923	6.08	0.997	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3833	1.8059	1.5704	1.5107	1.4879	1.4835	1.4923	1.6377	----	1.55	6.19	0.995	0.998	8.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2096	1.2825	1.2067	1.2604	1.2563	1.2664	1.2540	1.3867	1.2718	1.27	6.16	0.995	0.998	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7481	2.0040	1.8292	1.8339	1.7809	1.7407	1.6852	1.8094	----	1.80	6.30	0.998	0.998	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5416	0.6131	0.5354	0.5617	0.5654	0.5708	0.5684	0.6328	----	0.574	6.38	0.997	0.999	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8436	0.9419	0.8753	0.9068	0.8861	0.8701	0.8528	0.9199	0.8777	0.886	6.29	0.998	0.999	3.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2621	1.3278	1.2726	1.3267	1.3182	1.2892	1.2678	1.3354	1.2477	1.29	6.28	0.999	0.999	2.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1538	0.1347	0.1391	0.1555	0.1595	0.1635	0.1625	0.1818	----	0.156	6.42	0.994	0.998	9.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3246	0.3403	0.3274	0.3417	0.3385	0.3397	0.3381	0.3732	----	0.340	6.43	0.995	0.998	4.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6066	0.6527	0.5993	0.6496	0.6287	0.6311	0.6280	0.6962	----	0.637	6.61	0.995	0.998	4.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1807	0.1433	0.1556	0.1821	0.1902	0.1955	0.1944	0.2180	----	0.183	6.68	0.996	0.999	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3252	0.3241	0.3126	0.3391	0.3350	0.3366	0.3334	0.3704	0.2924	0.330	6.70	0.995	0.998	6.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1725	----	0.0463	0.1327	0.2149	0.2448	0.2464	0.2676	----	0.189	6.75	0.994	0.999	41		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3610	0.4386	0.3697	0.3851	0.3786	0.3794	0.3739	0.4109	----	0.387	6.77	0.996	0.998	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2891	0.2593	0.2611	0.2958	0.2915	0.2974	0.2933	0.3231	0.2484	0.284	6.86	0.996	0.998	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3247	0.3833	0.3100	0.3313	0.3208	0.3239	0.3212	0.3589	----	0.334	6.92	0.994	0.997	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0511	1.2703	1.0722	1.1160	1.0432	1.0377	1.0061	1.0912	1.2970	1.11	7.00	0.998	0.998	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4130	0.4122	0.4021	0.4307	0.4186	0.4093	0.4009	0.4393	0.4191	0.416	7.02	0.997	0.998	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1972	0.2209	0.1798	0.1990	0.1923	0.1994	0.1960	0.2186	----	0.200	7.08	0.994	0.998	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1017	0.0632	0.0804	0.1023	0.1053	0.1077	0.1070	0.1157	----	0.0979	7.30	0.997	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2721	0.2416	0.2470	0.2776	0.2828	0.2892	0.2866	0.3166	----	0.277	7.39	0.995	0.998	8.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6990	0.7632	0.6886	0.7388	0.6943	0.6896	0.6774	0.7375	----	0.711	7.54	0.997	0.998	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6465	0.7381	0.6446	0.6957	0.6508	0.6430	0.6240	0.6890	----	0.666	7.54	0.996	0.997	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6729	0.7506	0.6634	0.7147	0.6677	0.6641	0.6504	0.7101	----	0.687	7.61	0.996	0.998	5.0		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8277	0.9459	0.8090	0.8669	0.8143	0.8074	0.7883	0.8659	----	0.841	7.91	0.996	0.998	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6844	0.7366	0.6378	0.7025	0.6743	0.6935	0.6879	0.7492	----	0.696	7.67	0.996	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.021

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0107

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.4007	0.2657	0.3066	0.3782	0.4226	0.4455	0.4536	0.5036	-----	0.397	7.65	0.993	0.999	20	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4299	0.3414	0.3574	0.4241	0.4740	0.4495	0.4414	0.4886	-----	0.426	7.75	0.995	0.997	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4394	0.3518	0.3885	0.4595	0.4632	0.4761	0.4623	0.5255	-----	0.446	7.78	0.996	0.998	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4698	1.6369	1.4268	1.5270	1.4593	1.4966	1.4740	1.6110	-----	1.51	7.82	0.998	0.999	4.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2671	1.4237	1.2376	1.3444	1.2681	1.2832	1.2750	1.3912	-----	1.31	7.94	0.998	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	-----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0077	1.1384	0.9907	1.0709	1.0197	1.0183	0.9995	1.0521	-----	1.04	8.22	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.9032	0.9895	0.8537	0.9412	0.8983	0.9172	0.8985	0.9859	-----	0.923	8.00	0.996	0.998	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3744	0.3185	0.3439	0.3879	0.4004	0.4124	0.4117	0.4479	-----	0.387	8.01	0.996	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4963	0.4977	0.4772	0.5247	0.5072	0.5130	0.5061	0.5447	-----	0.508	8.20	0.997	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9640	2.0683	1.8862	2.0434	1.9736	1.9770	1.9309	2.0753	-----	1.99	8.30	0.999	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3903	1.5091	1.3612	1.4778	1.4037	1.4308	1.4169	1.5340	-----	1.44	8.15	0.997	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3269	0.2527	0.2927	0.3223	0.3313	0.3379	0.3265	0.3459	-----	0.317	8.22	0.999	0.999	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2392	1.4339	1.2186	1.3071	1.2403	1.2377	1.2217	1.3054	-----	1.28	8.45	0.998	0.999	5.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3672	0.3019	0.3253	0.3765	0.3799	0.3842	0.3808	0.4136	-----	0.366	8.37	0.997	0.999	9.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1501	-----	0.0603	0.1087	0.1823	0.2026	0.2039	0.2266	-----	0.162	8.47	0.993	0.999	37	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8016	2.1079	1.7999	1.9020	1.8069	1.8031	1.7743	1.9321	2.1281	1.90	8.61	0.997	0.998	7.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4226	0.2885	0.3468	0.4208	0.4346	0.4509	0.4488	0.4931	-----	0.413	8.58	0.995	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2269	0.0949	0.1590	0.2316	0.2516	0.2547	0.2657	0.2894	-----	0.222	8.49	0.994	0.999	29	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.4203	0.3175	0.3515	0.4123	0.4201	0.4335	0.4306	0.4751	-----	0.408	8.71	0.995	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4449	1.5231	1.4006	1.5278	1.4390	1.4559	1.4289	1.5292	-----	1.47	8.94	0.998	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7572	0.7985	0.7008	0.7730	0.7507	0.7742	0.7717	0.8455	-----	0.771	8.92	0.997	0.999	5.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2901	1.3979	1.2646	1.3963	1.3568	1.3801	1.3724	1.4937	-----	1.37	8.80	0.996	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3849	0.2747	0.3370	0.3990	0.4018	0.4164	0.4137	0.4532	-----	0.385	8.94	0.996	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4011	0.3140	0.3366	0.4064	0.4136	0.4292	0.4269	0.4669	-----	0.399	9.57	0.996	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1149	-----	0.0705	0.1018	0.1271	0.1371	0.1377	0.1537	-----	0.120	8.97	0.993	0.998	23	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6296	0.6578	0.6057	0.6583	0.6343	0.6451	0.6335	0.6984	-----	0.645	9.04	0.998	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1430	0.0955	0.1162	0.1404	0.1442	0.1518	0.1524	0.1725	-----	0.140	9.17	0.992	0.998	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6138	0.6610	0.6437	0.6858	0.6643	0.6754	0.7300	0.7984	-----	0.684	9.08	0.992	0.999	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2568	0.2451	0.2268	0.2551	0.2549	0.2651	0.2632	0.2968	-----	0.258	9.42	0.993	0.997	7.7	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.3034	0.3461	0.2825	0.3059	0.3031	0.3125	0.3100	0.3504	-----	0.314	9.49	0.992	0.997	7.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3278	0.3038	0.3266	0.3598	0.3670	0.3723	0.3667	0.3970	-----	0.353	9.75	0.997	0.999	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1758	-----	0.1190	0.1582	0.1866	0.1990	0.1988	0.2268	-----	0.181	9.69	0.994	0.998	19	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0638	1.2727	1.0615	1.1336	1.0731	1.0896	1.0736	1.1758	-----	1.12	9.93	0.996	0.998	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0941	1.1477	1.0479	1.1410	1.0993	1.1145	1.0989	1.2120	-----	1.12	9.99	0.995	0.998	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0007	0.9976	0.9545	1.0480	1.0121	1.0318	1.0095	1.1129	-----	1.02	10.15	0.996	0.998	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.0802	0.8391	0.9430	1.1213	1.1757	1.2129	1.1822	1.3027	0.7512	1.07	10.53	0.996	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2144	1.0931	1.0689	1.2256	1.2238	1.2524	1.2332	1.3695	-----	1.21	11.27	0.995	0.998	7.8	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1675	1.1970	1.1118	1.2226	1.1714	1.1709	1.1802	1.2715	-----	1.19	11.54	0.997	0.999	3.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7001	0.4142	0.5311	0.6788	0.7382	0.7488	0.7469	0.8057	-----	0.671	11.42	0.998	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6793	0.6836	0.6206	0.6942	0.6973	0.7137	0.7170	0.8041	-----	0.701	11.72	0.993	0.998	7.3		50.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.021

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1102001 0108

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M108717.D	CAL BNA@50PPM	10/13/21 12:21	2	9M108710.D	CAL BNA@2PPM	10/13/21 09:41
3	9M108709.D	CAL BNA@10PPM	10/13/21 09:10	4	9M108715.D	CAL BNA@20PPM	10/13/21 11:35
5	9M108714.D	CAL BNA@80PPM	10/13/21 11:13	6	9M108713.D	CAL BNA@120PPM	10/13/21 10:50
7	9M108712.D	CAL BNA@160PPM	10/13/21 10:27	8	9M108711.D	CAL BNA@196PPM	10/13/21 10:04
9	9M108716.D	CAL BNA@0.5PPM	10/13/21 11:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2430	0.2497	0.2248	0.2476	0.2556	0.2676	0.2769	0.3047	----	0.259	11.65	0.993	0.999	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4260	0.3255	0.3548	0.4248	0.4470	0.4620	0.4640	0.5143	----	0.427	12.05	0.996	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4179	0.2749	0.3473	0.4234	0.4695	0.4925	0.4924	0.5439	----	0.433	12.31	0.994	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3885	0.2638	0.3222	0.3789	0.4145	0.4338	0.4378	0.4851	----	0.391	12.41	0.994	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4990	0.3055	0.3843	0.4713	0.5188	0.5327	0.5292	0.5751	----	0.477	12.94	0.997	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1554	1.2399	1.0905	1.2144	1.1901	1.2150	1.2161	1.3230	----	1.21	12.97	0.996	0.999	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1522	1.4067	1.1114	1.1984	1.1657	1.1347	1.1706	1.2679	----	1.20	13.01	0.996	0.999	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.5743	0.4037	0.5274	0.6162	0.6754	0.6985	0.6940	0.7546	----	0.618	12.99	0.995	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	0.7872	0.3805	0.5873	0.7748	0.9384	1.0004	1.0169	1.1208	----	0.826	13.74	0.993	0.999	30	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0767	0.9118	0.9248	1.0569	1.1321	1.2148	1.1895	1.2903	----	1.10	14.18	0.996	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0226	1.1479	1.0612	1.1833	1.1191	1.1061	1.1487	1.2874	----	1.13	14.21	0.991	0.998	7.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0343	0.9073	0.9447	1.0755	1.0754	1.1166	1.1401	1.2623	----	1.07	14.56	0.993	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1785	1.0481	1.0485	1.2356	1.3053	1.3771	1.4123	1.5753	----	1.27	16.02	0.991	0.999	14	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0072	0.8777	0.9080	1.0620	1.1181	1.1715	1.1943	1.3241	----	1.08	16.05	0.993	0.999	14	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9373	0.9621	0.9140	1.0455	1.0757	1.1254	1.1454	1.2683	----	1.06	16.43	0.992	0.999	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.021
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118316.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/29/2021 8:54:00 **Method:** EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.55	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	45.91	50	**		1.034	0.950	8.18	
Pyridine	1	0		3.04	46.76	50	**		2.110	1.974	6.47	
N-Nitrosodimethylamine	1	0		2.99	46.17	50	**		1.513	1.398	7.65	
2-Fluorophenol	1	0	S	4.58	47.54	50	**		1.544	1.468	4.93	
Benzaldehyde	1	0		5.42	45.65	50	20	0.01	1.312	1.198	8.70	
Aniline	1	0		5.51	45.46	50	**		2.527	2.298	9.09	
Pentachloroethane	1	0		5.54	46.17	50	**	0.05	0.596	0.550	7.66	
bis(2-Chloroethyl)ether	1	0		5.57	45.30	50	20	0.7	1.729	1.567	9.41	
Phenol-d5	1	0	S	5.46	46.21	50	**		1.924	1.778	7.57	
Phenol	1	0		5.47	45.94	50	20	0.8	2.331	2.142	8.12	
2-Chlorophenol	1	0		5.60	46.55	50	20	0.8	1.757	1.636	6.91	
N-Decane	1	0		5.65	46.01	50	**	0.05	1.565	1.440	7.99	
1,3-Dichlorobenzene	1	0		5.74	45.57	50	**		1.980	1.805	8.86	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.80	47.17	50	20		1.644	1.551	5.67	
1,2-Dichlorobenzene	1	0		5.92	48.16	50	**		1.541	1.485	3.68	
Benzyl alcohol	1	0		5.90	49.74	50	**		0.895	0.890	0.53	
bis(2-chloroisopropyl)ether	1	0		6.01	48.08	50	20	0.01	1.422	1.367	3.84	
2-Methylphenol	1	0		5.99	50.35	50	20	0.7	1.237	1.245	0.71	
Acetophenone	1	0		6.12	52.37	50	20	0.01	1.807	1.893	4.75	
Hexachloroethane	1	0		6.20	48.34	50	20	0.3	0.595	0.575	3.32	
N-Nitroso-di-n-propylamine	1	0		6.12	54.80	50	20	0.5	0.844	0.924	9.59	
3&4-Methylphenol	1	0		6.11	53.25	50	20		1.284	1.367	6.50	
Naphthalene-d8	1	0	I	6.79	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	25.17	25	**		0.147	0.148	0.70	
Nitrobenzene	1	0		6.25	49.78	50	20	0.2	0.325	0.324	0.43	
Isophorone	1	0		6.44	49.39	50	20	0.4	0.624	0.616	1.21	
2-Nitrophenol	1	0		6.50	49.63	50	20	0.1	0.175	0.171	0.73	
2,4-Dimethylphenol	1	0		6.52	49.06	50	20	0.2	0.336	0.329	1.87	
Benzoic Acid	1	0		6.59	37.40	50	**		0.172	0.124	25.20	
bis(2-Chloroethoxy)methane	1	0		6.60	47.67	50	20	0.3	0.403	0.384	4.66	
2,4-Dichlorophenol	1	0		6.68	51.57	50	20	0.2	0.286	0.295	3.14	
1,2,4-Trichlorobenzene	1	0		6.75	47.67	50	**		0.351	0.335	4.67	
Naphthalene	1	0		6.81	47.00	50	20	0.7	1.077	1.012	6.00	
4-Chloroaniline	1	0		6.84	50.05	50	20	0.01	0.410	0.410	0.11	
Hexachlorobutadiene	1	0		6.90	47.33	50	20	0.01	0.204	0.194	5.33	
Caprolactam	1	0		7.12	54.13	50	20	0.01	0.093	0.094	8.25	
4-Chloro-3-methylphenol	1	0		7.21	49.12	50	20	0.2	0.274	0.269	1.76	
2-Methylnaphthalene	1	0		7.34	48.02	50	**	0.4	0.726	0.697	3.96	
1-Methylnaphthalene	1	0		7.42	46.95	50	**	0.4	0.678	0.637	6.11	
Methylnaphthalenes	1	0		7.34	94.50	50	**			1.319	88.99	
1,1'-Biphenyl	1	0		7.71	47.34	50	20	0.01	0.864	0.818	5.31	
Acenaphthene-d10	1	0	I	8.22	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.47	48.83	50	20	0.01	0.702	0.686	2.35	
Hexachlorocyclopentadiene	1	0		7.46	50.00	50	20	0.05	0.386	0.384	0.01	
2,4,6-Trichlorophenol	1	0		7.56	52.89	50	20	0.2	0.415	0.439	5.78	
2,4,5-Trichlorophenol	1	0		7.59	49.46	50	20	0.2	0.441	0.437	1.08	
2-Fluorobiphenyl	1	0	S	7.63	25.06	25	**		1.445	1.449	0.26	
2-Chloronaphthalene	1	0		7.74	47.74	50	20	0.8	1.325	1.265	4.53	
1,4-Dimethylnaphthalene	1	0		8.02	49.80	50	**		1.077	1.072	0.39	
Dimethylnaphthalenes	1	0		8.02	49.80	50	20			1.072	0.39	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118316.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/29/2021 8:54:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.80	48.37	50	**		0.914	0.884	3.27	
2-Nitroaniline	1	0		7.81	51.65	50	20	0.01	0.355	0.374	3.31	
Coumarin	1	0		8.00	50.15		**		0.499			
Acenaphthylene	1	0		8.09	48.98	50	20	0.9	1.962	1.922	2.05	
Dimethylphthalate	1	0		7.96	48.59	50	20	0.01	1.421	1.381	2.82	
2,6-Dinitrotoluene	1	0		8.02	51.50	50	20	0.2	0.315	0.324	3.00	
Acenaphthene	1	0		8.25	46.98	50	20	0.9	1.310	1.231	6.04	
3-Nitroaniline	1	0		8.17	50.85	50	20	0.01	0.338	0.344	1.69	
2,4-Dinitrophenol	1	0		8.26	55.20	50	20	0.2	0.135	0.136	10.39	
Dibenzofuran	1	0		8.40	46.85	50	20	0.8	1.865	1.747	6.30	
2,4-Dinitrotoluene	1	0		8.38	49.26	50	20	0.2	0.392	0.387	1.49	
4-Nitrophenol	1	0		8.29	50.07	50	20	0.01	0.199	0.212	0.14	
2,3,4,6-Tetrachlorophenol	1	0		8.50	51.19	50	20	0.01	0.375	0.373	2.37	
Fluorene	1	0		8.72	46.79	50	20	0.9	1.506	1.409	6.43	
4-Chlorophenyl-phenylether	1	0		8.71	47.20	50	20	0.4	0.759	0.717	5.59	
Diethylphthalate	1	0		8.59	48.77	50	20	0.01	1.346	1.313	2.47	
4-Nitroaniline	1	0		8.73	49.82	50	20	0.01	0.361	0.368	0.37	
Atrazine	1	0		9.35	51.26	50	20	0.01	0.388	0.387	2.52	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.75	52.59	50	20	0.01	0.108	0.106	5.17	
n-Nitrosodiphenylamine	1	0		8.82	48.23	50	20	0.01	0.655	0.632	3.54	
2,4,6-Tribromophenol	1	0	S	8.95	51.96	50	**		0.104	0.108	3.92	
1,2-Diphenylhydrazine	1	0		8.87	46.27	50	**		0.704	0.651	7.46	
4-Bromophenyl-phenylether	1	0		9.20	48.08	50	20	0.1	0.228	0.219	3.84	
Hexachlorobenzene	1	0		9.26	47.47	50	20	0.1	0.247	0.234	5.05	
N-Octadecane	1	0		9.53	52.17	50	**	0.05	0.357	0.372	4.33	
Pentachlorophenol	1	0		9.46	52.36	50	20	0.05	0.140	0.140	4.72	
Phenanthrene	1	0		9.70	47.10	50	20	0.7	1.157	1.089	5.80	
Anthracene	1	0		9.75	46.63	50	20	0.7	1.158	1.080	6.75	
Carbazole	1	0		9.92	47.74	50	20	0.01	1.039	0.993	4.52	
Di-n-butylphthalate	1	0		10.30	49.06	50	20	0.01	1.086	1.138	1.89	
Fluoranthene	1	0		11.03	48.68	50	20	0.6	1.237	1.205	2.65	
Chrysene-d12	1	0	I	12.72	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	47.32	50	20	0.6	1.382	1.307	5.36	
Benzidine	1	0		11.19	51.25	50	**		0.702	0.755	2.49	
Terphenyl-d14	1	0	S	11.48	24.07	25	**		0.665	0.641	3.71	
4,4'-DDE	1	0		11.41	46.58		**		0.276			
4,4'-DDD	1	0		11.81	50.65		**		0.454			
Butylbenzylphthalate	1	0		12.07	48.68	50	20	0.01	0.477	0.509	2.64	
4,4'-DDT	1	0		12.17	50.13		**		0.412			
3,3'-Dichlorobenzidine	1	0		12.69	52.98	50	20	0.01	0.446	0.491	5.95	
Benzo[a]anthracene	1	0		12.71	47.94	50	20	0.8	1.328	1.273	4.11	
Chrysene	1	0		12.76	48.68	50	20	0.7	1.327	1.292	2.64	
bis(2-Ethylhexyl)phthalate	1	0		12.76	49.88	50	20	0.01	0.733	0.790	0.23	
Perylene-d12	1	0	I	14.34	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.50	47.85	50	20	0.01	1.093	1.101	4.29	
Benzo[b]fluoranthene	1	0		13.93	49.28	50	20	0.7	1.212	1.195	1.45	
Benzo[k]fluoranthene	1	0		13.96	44.99	50	20	0.7	1.221	1.098	10.01	
Benzo[a]pyrene	1	0		14.28	50.82	50	20	0.7	1.138	1.110	1.63	
Indeno[1,2,3-cd]pyrene	1	0		15.64	52.04	50	20	0.5	1.296	1.271	4.08	
Dibenzo[a,h]anthracene	1	0		15.66	49.20	50	20	0.4	1.084	1.066	1.60	
Benzo[g,h,i]perylene	1	0		16.01	49.29	50	20	0.5	1.075	1.060	1.42	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118316.D **Instrument:** GCMS 5

Cont Calibration Date/Time 10/29/2021 8:54:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.698	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.077	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109203.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/29/2021 5:37:00 P **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.81	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.85	47.24	50	**		1.056	0.998	5.52	
Pyridine	1	0		3.32	51.65	50	**		2.205	2.278	3.30	
N-Nitrosodimethylamine	1	0		3.26	54.30	50	**		1.606	1.744	8.59	
2-Fluorophenol	1	0	S	4.79	47.36	50	**		2.491	2.359	5.28	
Benzaldehyde	1	0		5.61	52.17	50	20	0.01	2.121	2.214	4.34	
Aniline	1	0		5.75	31.38	50	**		4.032	2.531	37.24	
Pentachloroethane	1	0		5.74	46.39	50	**	0.05	0.898	0.834	7.22	
bis(2-Chloroethyl)ether	1	0		5.75	48.29	50	20	0.7	2.620	2.531	3.42	
Phenol-d5	1	0	S	5.65	51.47	50	**		2.973	3.061	2.93	
Phenol	1	0		5.67	49.98	50	20	0.8	3.647	3.646	0.04	
2-Chlorophenol	1	0		5.80	46.69	50	20	0.8	2.763	2.580	6.63	
N-Decane	1	0		5.83	59.99	50	**	0.05	2.428	2.912	19.97	
1,3-Dichlorobenzene	1	0		5.92	44.44	50	**		3.097	2.753	11.11	
1,4-Dichlorobenzene-d4	1	0	I	5.97	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.99	47.10	50	20		1.628	1.534	5.79	
1,2-Dichlorobenzene	1	0		6.11	46.94	50	**		1.546	1.452	6.12	
Benzyl alcohol	1	0		6.08	48.99	50	**		0.923	0.905	2.01	
bis(2-chloroisopropyl)ether	1	0		6.19	69.37	50	20	0.01	1.547	2.145	38.73	C1
2-Methylphenol	1	0		6.17	55.70	50	20	0.7	1.266	1.411	11.41	
Acetophenone	1	0		6.30	53.39	50	20	0.01	1.804	1.926	6.77	
Hexachloroethane	1	0		6.38	49.05	50	20	0.3	0.574	0.563	1.89	
N-Nitroso-di-n-propylamine	1	0		6.30	61.72	50	20	0.5	0.886	1.094	23.44	C1
3&4-Methylphenol	1	0		6.30	55.54	50	20		1.294	1.438	11.09	
Naphthalene-d8	1	0	I	6.98	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.42	26.63	25	**		0.156	0.167	6.51	
Nitrobenzene	1	0		6.44	56.45	50	20	0.2	0.340	0.384	12.91	
Isophorone	1	0		6.62	56.84	50	20	0.4	0.637	0.724	13.68	
2-Nitrophenol	1	0		6.68	52.29	50	20	0.1	0.183	0.191	4.58	
2,4-Dimethylphenol	1	0		6.71	53.67	50	20	0.2	0.330	0.354	7.34	
Benzoic Acid	1	0		6.75	45.64	50	**		0.189	0.160	8.72	
bis(2-Chloroethoxy)methane	1	0		6.78	53.41	50	20	0.3	0.387	0.414	6.82	
2,4-Dichlorophenol	1	0		6.87	49.87	50	20	0.2	0.284	0.284	0.25	
1,2,4-Trichlorobenzene	1	0		6.93	45.66	50	**		0.334	0.305	8.68	
Naphthalene	1	0		7.00	47.93	50	20	0.7	1.109	1.064	4.14	
4-Chloroaniline	1	0		7.03	49.84	50	20	0.01	0.416	0.415	0.31	
Hexachlorobutadiene	1	0		7.08	43.76	50	20	0.01	0.200	0.175	12.49	
Caprolactam	1	0		7.31	56.54	50	20	0.01	0.098	0.111	13.08	
4-Chloro-3-methylphenol	1	0		7.40	52.95	50	20	0.2	0.277	0.293	5.91	
2-Methylnaphthalene	1	0		7.54	48.74	50	**	0.4	0.711	0.693	2.51	
1-Methylnaphthalene	1	0		7.62	49.04	50	**	0.4	0.667	0.654	1.92	
Methylnaphthalenes	1	0		7.62	97.73	50	**			1.342	95.46	
1,1'-Biphenyl	1	0		7.92	48.34	50	20	0.01	0.841	0.813	3.32	
Acenaphthene-d10	1	0	I	8.43	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.67	45.62	50	20	0.01	0.696	0.635	8.76	
Hexachlorocyclopentadiene	1	0		7.66	37.96	50	20	0.05	0.397	0.290	24.09	C1
2,4,6-Trichlorophenol	1	0		7.76	48.76	50	20	0.2	0.426	0.415	2.48	
2,4,5-Trichlorophenol	1	0		7.80	48.58	50	20	0.2	0.446	0.433	2.85	
2-Fluorobiphenyl	1	0	S	7.83	23.59	25	**		1.513	1.428	5.63	
2-Chloronaphthalene	1	0		7.94	47.19	50	20	0.8	1.311	1.238	5.63	
1,4-Dimethylnaphthalene	1	0		8.23	49.63	50	**		1.037	1.029	0.75	
Dimethylnaphthalenes	1	0		8.23	49.63	50	20			1.029	0.75	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109203.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/29/2021 5:37:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.00	47.59	50	**		0.923	0.879	4.82	
2-Nitroaniline	1	0		8.02	61.37	50	20	0.01	0.387	0.475	22.74	C1
Coumarin	1	0		8.21	49.61		**		0.508			
Acenaphthylene	1	0		8.31	49.94	50	20	0.9	1.990	1.987	0.12	
Dimethylphthalate	1	0		8.16	47.58	50	20	0.01	1.441	1.371	4.84	
2,6-Dinitrotoluene	1	0		8.22	51.70	50	20	0.2	0.317	0.328	3.41	
Acenaphthene	1	0		8.47	49.12	50	20	0.9	1.276	1.253	1.77	
3-Nitroaniline	1	0		8.38	51.20	50	20	0.01	0.366	0.375	2.40	
2,4-Dinitrophenol	1	0		8.48	52.22	50	20	0.2	0.162	0.159	4.45	
Dibenzofuran	1	0		8.62	46.36	50	20	0.8	1.895	1.757	7.29	
2,4-Dinitrotoluene	1	0		8.59	51.34	50	20	0.2	0.413	0.422	2.68	
4-Nitrophenol	1	0		8.51	55.00	50	20	0.01	0.222	0.251	10.01	
2,3,4,6-Tetrachlorophenol	1	0		8.72	47.23	50	20	0.01	0.408	0.385	5.54	
Fluorene	1	0		8.95	48.51	50	20	0.9	1.469	1.425	2.97	
4-Chlorophenyl-phenylether	1	0		8.93	45.33	50	20	0.4	0.772	0.699	9.34	
Diethylphthalate	1	0		8.80	48.11	50	20	0.01	1.369	1.317	3.78	
4-Nitroaniline	1	0		8.95	52.86	50	20	0.01	0.385	0.403	5.72	
Atrazine	1	0		9.58	48.30	50	20	0.01	0.399	0.386	3.40	
Phenanthrene-d10	1	0	I	9.92	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.98	51.29	50	20	0.01	0.120	0.120	2.57	
n-Nitrosodiphenylamine	1	0		9.05	49.48	50	20	0.01	0.645	0.639	1.03	
2,4,6-Tribromophenol	1	0	S	9.18	54.90	50	**		0.140	0.149	9.80	
1,2-Diphenylhydrazine	1	0		9.09	62.13	50	**		0.684	0.850	24.26	
4-Bromophenyl-phenylether	1	0		9.43	47.32	50	20	0.1	0.258	0.244	5.35	
Hexachlorobenzene	1	0		9.50	47.06	50	20	0.1	0.314	0.296	5.87	
N-Octadecane	1	0		9.75	72.64	50	**	0.05	0.353	0.512	45.27	
Pentachlorophenol	1	0		9.70	45.86	50	20	0.05	0.181	0.155	8.29	
Phenanthrene	1	0		9.94	47.86	50	20	0.7	1.118	1.070	4.29	
Anthracene	1	0		10.00	49.19	50	20	0.7	1.119	1.101	1.62	
Carbazole	1	0		10.17	49.62	50	20	0.01	1.021	1.013	0.76	
Di-n-butylphthalate	1	0		10.54	53.98	50	20	0.01	1.068	1.194	7.95	
Fluoranthene	1	0		11.28	49.10	50	20	0.6	1.210	1.188	1.79	
Chrysene-d12	1	0	I	12.99	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.55	48.19	50	20	0.6	1.187	1.144	3.62	
Benzidine	1	0		11.44	48.32	50	**		0.671	0.664	3.37	
Terphenyl-d14	1	0	S	11.72	24.27	25	**		0.701	0.681	2.92	
4,4'-DDE	1	0		11.66	47.01		**		0.259			
4,4'-DDD	1	0		12.06	50.27		**		0.427			
Butylbenzylphthalate	1	0		12.31	54.89	50	20	0.01	0.433	0.478	9.77	
4,4'-DDT	1	0		12.42	50.93		**		0.391			
3,3'-Dichlorobenzidine	1	0		12.95	53.45	50	20	0.01	0.477	0.526	6.91	
Benzo[a]anthracene	1	0		12.98	47.64	50	20	0.8	1.206	1.149	4.71	
Chrysene	1	0		13.02	46.08	50	20	0.7	1.201	1.107	7.84	
bis(2-Ethylhexyl)phthalate	1	0		13.00	56.39	50	20	0.01	0.618	0.708	12.77	
Perylene-d12	1	0	I	14.65	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.75	56.69	50	20	0.01	0.826	0.975	13.37	
Benzo[b]fluoranthene	1	0		14.20	49.68	50	20	0.7	1.100	1.093	0.63	
Benzo[k]fluoranthene	1	0		14.23	44.53	50	20	0.7	1.135	1.010	10.94	
Benzo[a]pyrene	1	0		14.58	47.93	50	20	0.7	1.070	1.025	4.14	
Indeno[1,2,3-cd]pyrene	1	0		16.06	48.54	50	20	0.5	1.273	1.235	2.93	
Dibenzo[a,h]anthracene	1	0		16.08	49.06	50	20	0.4	1.083	1.063	1.88	
Benzo[g,h,i]perylene	1	0		16.47	49.10	50	20	0.5	1.059	1.040	1.80	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109203.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/29/2021 5:37:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.687	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.037	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109230.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/31/2021 11:20:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.80	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.84	45.21	50	**		1.056	0.955	9.59	
Pyridine	1	0		3.31	46.96	50	**		2.205	2.071	6.08	
N-Nitrosodimethylamine	1	0		3.25	49.48	50	**		1.606	1.589	1.04	
2-Fluorophenol	1	0	S	4.78	50.30	50	**		2.491	2.506	0.59	
Benzaldehyde	1	0		5.60	49.47	50	20	0.01	2.121	2.099	1.06	
Aniline	1	0		5.69	49.46	50	**		4.032	3.989	1.07	
Pentachloroethane	1	0		5.74	50.81	50	**	0.05	0.898	0.913	1.63	
bis(2-Chloroethyl)ether	1	0		5.75	48.44	50	20	0.7	2.620	2.538	3.12	
Phenol-d5	1	0	S	5.65	51.94	50	**		2.973	3.089	3.88	
Phenol	1	0		5.67	50.87	50	20	0.8	3.647	3.710	1.73	
2-Chlorophenol	1	0		5.80	51.48	50	20	0.8	2.763	2.845	2.95	
N-Decane	1	0		5.82	49.66	50	**	0.05	2.428	2.411	0.68	
1,3-Dichlorobenzene	1	0		5.92	48.80	50	**		3.097	3.023	2.40	
1,4-Dichlorobenzene-d4	1	0	I	5.97	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.99	48.69	50	20		1.628	1.585	2.63	
1,2-Dichlorobenzene	1	0		6.11	48.56	50	**		1.546	1.502	2.88	
Benzyl alcohol	1	0		6.08	51.15	50	**		0.923	0.945	2.30	
bis(2-chloroisopropyl)ether	1	0		6.19	53.98	50	20	0.01	1.547	1.670	7.95	
2-Methylphenol	1	0		6.17	53.03	50	20	0.7	1.266	1.343	6.05	
Acetophenone	1	0		6.30	53.13	50	20	0.01	1.804	1.917	6.26	
Hexachloroethane	1	0		6.38	49.43	50	20	0.3	0.574	0.567	1.14	
N-Nitroso-di-n-propylamine	1	0		6.30	53.14	50	20	0.5	0.886	0.942	6.29	
3&4-Methylphenol	1	0		6.30	55.17	50	20		1.294	1.428	10.35	
Naphthalene-d8	1	0	I	6.98	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.42	25.55	25	**		0.156	0.160	2.21	
Nitrobenzene	1	0		6.44	48.00	50	20	0.2	0.340	0.327	4.00	
Isophorone	1	0		6.62	48.90	50	20	0.4	0.637	0.623	2.20	
2-Nitrophenol	1	0		6.68	51.47	50	20	0.1	0.183	0.188	2.93	
2,4-Dimethylphenol	1	0		6.71	49.36	50	20	0.2	0.330	0.326	1.28	
Benzoic Acid	1	0		6.76	45.95	50	**		0.189	0.161	8.09	
bis(2-Chloroethoxy)methane	1	0		6.78	48.11	50	20	0.3	0.387	0.373	3.79	
2,4-Dichlorophenol	1	0		6.87	48.09	50	20	0.2	0.284	0.273	3.83	
1,2,4-Trichlorobenzene	1	0		6.93	44.17	50	**		0.334	0.295	11.66	
Naphthalene	1	0		7.00	46.98	50	20	0.7	1.109	1.042	6.04	
4-Chloroaniline	1	0		7.03	48.83	50	20	0.01	0.416	0.406	2.34	
Hexachlorobutadiene	1	0		7.08	40.78	50	20	0.01	0.200	0.163	18.45	
Caprolactam	1	0		7.31	52.63	50	20	0.01	0.098	0.103	5.26	
4-Chloro-3-methylphenol	1	0		7.40	48.76	50	20	0.2	0.277	0.270	2.48	
2-Methylnaphthalene	1	0		7.54	47.85	50	**	0.4	0.711	0.681	4.30	
1-Methylnaphthalene	1	0		7.62	48.21	50	**	0.4	0.667	0.643	3.59	
Methylnaphthalenes	1	0		7.54	95.66	50	**			1.314	91.32	
1,1'-Biphenyl	1	0		7.92	46.89	50	20	0.01	0.841	0.788	6.23	
Acenaphthene-d10	1	0	I	8.43	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.67	43.73	50	20	0.01	0.696	0.609	12.53	
Hexachlorocyclopentadiene	1	0		7.65	30.57	50	20	0.05	0.397	0.230	38.86	C1
2,4,6-Trichlorophenol	1	0		7.76	47.61	50	20	0.2	0.426	0.406	4.77	
2,4,5-Trichlorophenol	1	0		7.80	46.96	50	20	0.2	0.446	0.419	6.08	
2-Fluorobiphenyl	1	0	S	7.83	23.34	25	**		1.513	1.412	6.63	
2-Chloronaphthalene	1	0		7.94	47.28	50	20	0.8	1.311	1.240	5.45	
1,4-Dimethylnaphthalene	1	0		8.23	49.48	50	**		1.037	1.026	1.04	
Dimethylnaphthalenes	1	0		8.23	49.48	50	20			1.026	1.04	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109230.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/31/2021 11:20:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.00	47.06	50	**		0.923	0.869	5.88	
2-Nitroaniline	1	0		8.02	51.86	50	20	0.01	0.387	0.402	3.71	
Coumarin	1	0		8.21	50.04		**		0.508			
Acenaphthylene	1	0		8.31	49.92	50	20	0.9	1.990	1.987	0.17	
Dimethylphthalate	1	0		8.16	47.60	50	20	0.01	1.441	1.371	4.81	
2,6-Dinitrotoluene	1	0		8.22	52.75	50	20	0.2	0.317	0.335	5.50	
Acenaphthene	1	0		8.46	48.95	50	20	0.9	1.276	1.249	2.10	
3-Nitroaniline	1	0		8.38	51.33	50	20	0.01	0.366	0.376	2.65	
2,4-Dinitrophenol	1	0		8.48	45.91	50	20	0.2	0.162	0.137	8.18	
Dibenzofuran	1	0		8.62	46.37	50	20	0.8	1.895	1.758	7.25	
2,4-Dinitrotoluene	1	0		8.60	50.72	50	20	0.2	0.413	0.417	1.44	
4-Nitrophenol	1	0		8.51	50.04	50	20	0.01	0.222	0.227	0.07	
2,3,4,6-Tetrachlorophenol	1	0		8.72	41.75	50	20	0.01	0.408	0.340	16.50	
Fluorene	1	0		8.95	48.58	50	20	0.9	1.469	1.427	2.84	
4-Chlorophenyl-phenylether	1	0		8.93	44.34	50	20	0.4	0.772	0.684	11.32	
Diethylphthalate	1	0		8.80	48.73	50	20	0.01	1.369	1.334	2.53	
4-Nitroaniline	1	0		8.95	52.76	50	20	0.01	0.385	0.402	5.52	
Atrazine	1	0		9.58	47.66	50	20	0.01	0.399	0.381	4.68	
Phenanthrene-d10	1	0	I	9.92	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.98	49.62	50	20	0.01	0.120	0.115	0.77	
n-Nitrosodiphenylamine	1	0		9.05	50.33	50	20	0.01	0.645	0.650	0.65	
2,4,6-Tribromophenol	1	0	S	9.18	39.76	50	**		0.140	0.105	20.49	
1,2-Diphenylhydrazine	1	0		9.09	56.63	50	**		0.684	0.775	13.27	
4-Bromophenyl-phenylether	1	0		9.42	41.10	50	20	0.1	0.258	0.212	17.80	
Hexachlorobenzene	1	0		9.50	36.67	50	20	0.1	0.314	0.231	26.65	C1
N-Octadecane	1	0		9.75	56.12	50	**	0.05	0.353	0.396	12.24	
Pentachlorophenol	1	0		9.70	37.19	50	20	0.05	0.181	0.123	25.62	C1
Phenanthrene	1	0		9.94	47.64	50	20	0.7	1.118	1.065	4.73	
Anthracene	1	0		10.00	49.24	50	20	0.7	1.119	1.103	1.51	
Carbazole	1	0		10.17	50.60	50	20	0.01	1.021	1.033	1.21	
Di-n-butylphthalate	1	0		10.54	54.96	50	20	0.01	1.068	1.217	9.92	
Fluoranthene	1	0		11.28	48.45	50	20	0.6	1.210	1.173	3.10	
Chrysene-d12	1	0	I	12.99	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.55	53.53	50	20	0.6	1.187	1.271	7.07	
Benzidine	1	0		11.44	53.83	50	**		0.671	0.744	7.65	
Terphenyl-d14	1	0	S	11.72	23.83	25	**		0.701	0.669	4.67	
4,4'-DDE	1	0		11.66	47.08		**		0.259			
4,4'-DDD	1	0		12.06	52.78		**		0.427			
Butylbenzylphthalate	1	0		12.31	63.40	50	20	0.01	0.433	0.560	26.80	C1
4,4'-DDT	1	0		12.42	51.91		**		0.391			
3,3'-Dichlorobenzidine	1	0		12.95	50.77	50	20	0.01	0.477	0.498	1.53	
Benzo[a]anthracene	1	0		12.98	50.33	50	20	0.8	1.206	1.213	0.65	
Chrysene	1	0		13.02	47.90	50	20	0.7	1.201	1.151	4.20	
bis(2-Ethylhexyl)phthalate	1	0		12.99	64.48	50	20	0.01	0.618	0.819	28.96	C1
Perylene-d12	1	0	I	14.65	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.75	71.22	50	20	0.01	0.826	1.263	42.45	C1
Benzo[b]fluoranthene	1	0		14.20	52.66	50	20	0.7	1.100	1.158	5.32	
Benzo[k]fluoranthene	1	0		14.24	48.25	50	20	0.7	1.135	1.095	3.49	
Benzo[a]pyrene	1	0		14.58	50.18	50	20	0.7	1.070	1.073	0.36	
Indeno[1,2,3-cd]pyrene	1	0		16.06	45.57	50	20	0.5	1.273	1.160	8.86	
Dibenzo[a,h]anthracene	1	0		16.08	45.22	50	20	0.4	1.083	0.979	9.56	
Benzo[g,h,i]perylene	1	0		16.47	45.62	50	20	0.5	1.059	0.966	8.76	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109230.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/31/2021 11:20:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.687	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.037	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109261.D **Instrument:** GCMS 9

Cont Calibration Date/Time 11/1/2021 10:32:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.80	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.84	44.51	50	**		1.056	0.940	10.99	
Pyridine	1	0		3.31	44.74	50	**		2.205	1.973	10.52	
N-Nitrosodimethylamine	1	0		3.25	47.43	50	**		1.606	1.523	5.15	
2-Fluorophenol	1	0	S	4.78	49.77	50	**		2.491	2.479	0.46	
Benzaldehyde	1	0		5.60	47.39	50	20	0.01	2.121	2.011	5.22	
Aniline	1	0		5.69	48.40	50	**		4.032	3.903	3.21	
Pentachloroethane	1	0		5.74	49.80	50	**	0.05	0.898	0.895	0.39	
bis(2-Chloroethyl)ether	1	0		5.75	48.08	50	20	0.7	2.620	2.519	3.85	
Phenol-d5	1	0	S	5.65	50.41	50	**		2.973	2.998	0.82	
Phenol	1	0		5.67	48.99	50	20	0.8	3.647	3.573	2.02	
2-Chlorophenol	1	0		5.80	50.66	50	20	0.8	2.763	2.799	1.31	
N-Decane	1	0		5.82	48.12	50	**	0.05	2.428	2.336	3.75	
1,3-Dichlorobenzene	1	0		5.92	47.69	50	**		3.097	2.954	4.62	
1,4-Dichlorobenzene-d4	1	0	I	5.97	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.98	48.67	50	20		1.628	1.585	2.67	
1,2-Dichlorobenzene	1	0		6.11	48.61	50	**		1.546	1.504	2.77	
Benzyl alcohol	1	0		6.08	51.23	50	**		0.923	0.946	2.46	
bis(2-chloroisopropyl)ether	1	0		6.19	52.50	50	20	0.01	1.547	1.624	4.99	
2-Methylphenol	1	0		6.17	52.50	50	20	0.7	1.266	1.329	5.00	
Acetophenone	1	0		6.30	52.63	50	20	0.01	1.804	1.899	5.27	
Hexachloroethane	1	0		6.38	49.66	50	20	0.3	0.574	0.570	0.68	
N-Nitroso-di-n-propylamine	1	0		6.30	52.02	50	20	0.5	0.886	0.922	4.04	
3&4-Methylphenol	1	0		6.30	54.82	50	20		1.294	1.419	9.65	
Naphthalene-d8	1	0	I	6.98	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.42	25.90	25	**		0.156	0.162	3.61	
Nitrobenzene	1	0		6.44	48.00	50	20	0.2	0.340	0.327	3.99	
Isophorone	1	0		6.62	48.85	50	20	0.4	0.637	0.622	2.31	
2-Nitrophenol	1	0		6.68	51.63	50	20	0.1	0.183	0.188	3.27	
2,4-Dimethylphenol	1	0		6.71	49.72	50	20	0.2	0.330	0.328	0.56	
Benzoic Acid	1	0		6.76	43.12	50	**		0.189	0.149	13.77	
bis(2-Chloroethoxy)methane	1	0		6.78	48.09	50	20	0.3	0.387	0.372	3.83	
2,4-Dichlorophenol	1	0		6.87	48.36	50	20	0.2	0.284	0.275	3.28	
1,2,4-Trichlorobenzene	1	0		6.94	44.56	50	**		0.334	0.298	10.89	
Naphthalene	1	0		7.00	47.48	50	20	0.7	1.109	1.054	5.03	
4-Chloroaniline	1	0		7.04	49.12	50	20	0.01	0.416	0.409	1.76	
Hexachlorobutadiene	1	0		7.08	40.67	50	20	0.01	0.200	0.163	18.65	
Caprolactam	1	0		7.31	52.67	50	20	0.01	0.098	0.103	5.34	
4-Chloro-3-methylphenol	1	0		7.41	49.33	50	20	0.2	0.277	0.273	1.34	
2-Methylnaphthalene	1	0		7.55	48.03	50	**	0.4	0.711	0.683	3.94	
1-Methylnaphthalene	1	0		7.62	47.93	50	**	0.4	0.667	0.639	4.15	
Methylnaphthalenes	1	0		0.00	0.00	50	**			0.000	100.00	
1,1'-Biphenyl	1	0		7.92	47.64	50	20	0.01	0.841	0.801	4.72	
Acenaphthene-d10	1	0	I	8.44	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.68	43.47	50	20	0.01	0.696	0.605	13.06	
Hexachlorocyclopentadiene	1	0		7.67	29.17	50	20	0.05	0.397	0.219	41.66	C1
2,4,6-Trichlorophenol	1	0		7.77	46.02	50	20	0.2	0.426	0.392	7.96	
2,4,5-Trichlorophenol	1	0		7.81	46.62	50	20	0.2	0.446	0.416	6.76	
2-Fluorobiphenyl	1	0	S	7.84	22.93	25	**		1.513	1.387	8.29	
2-Chloronaphthalene	1	0		7.95	46.74	50	20	0.8	1.311	1.226	6.52	
1,4-Dimethylnaphthalene	1	0		8.24	49.15	50	**		1.037	1.020	1.70	
Dimethylnaphthalenes	1	0		0.00	0.00	50	20			0.000	100.00	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109261.D **Instrument:** GCMS 9

Cont Calibration Date/Time 11/1/2021 10:32:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.01	46.50	50	**		0.923	0.859	7.00	
2-Nitroaniline	1	0		8.03	50.82	50	20	0.01	0.387	0.394	1.65	
Coumarin	1	0		8.22	49.19		**		0.508			
Acenaphthylene	1	0		8.32	49.24	50	20	0.9	1.990	1.960	1.52	
Dimethylphthalate	1	0		8.17	47.03	50	20	0.01	1.441	1.355	5.93	
2,6-Dinitrotoluene	1	0		8.24	51.77	50	20	0.2	0.317	0.328	3.54	
Acenaphthene	1	0		8.47	48.51	50	20	0.9	1.276	1.238	2.97	
3-Nitroaniline	1	0		8.39	50.65	50	20	0.01	0.366	0.371	1.30	
2,4-Dinitrophenol	1	0		8.49	46.30	50	20	0.2	0.162	0.138	7.40	
Dibenzofuran	1	0		8.63	45.53	50	20	0.8	1.895	1.726	8.95	
2,4-Dinitrotoluene	1	0		8.60	50.40	50	20	0.2	0.413	0.414	0.81	
4-Nitrophenol	1	0		8.52	46.75	50	20	0.01	0.222	0.211	6.51	
2,3,4,6-Tetrachlorophenol	1	0		8.74	41.37	50	20	0.01	0.408	0.337	17.27	
Fluorene	1	0		8.95	47.96	50	20	0.9	1.469	1.409	4.07	
4-Chlorophenyl-phenylether	1	0		8.94	43.95	50	20	0.4	0.772	0.678	12.10	
Diethylphthalate	1	0		8.81	47.87	50	20	0.01	1.369	1.311	4.27	
4-Nitroaniline	1	0		8.96	52.59	50	20	0.01	0.385	0.401	5.18	
Atrazine	1	0		9.58	46.61	50	20	0.01	0.399	0.372	6.78	
Phenanthrene-d10	1	0	I	9.92	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		9.00	48.19	50	20	0.01	0.120	0.112	3.63	
n-Nitrosodiphenylamine	1	0		9.05	49.63	50	20	0.01	0.645	0.641	0.74	
2,4,6-Tribromophenol	1	0	S	9.19	39.68	50	**		0.140	0.105	20.65	
1,2-Diphenylhydrazine	1	0		9.10	55.59	50	**		0.684	0.761	11.18	
4-Bromophenyl-phenylether	1	0		9.44	41.49	50	20	0.1	0.258	0.214	17.02	
Hexachlorobenzene	1	0		9.51	36.72	50	20	0.1	0.314	0.231	26.55	C1
N-Octadecane	1	0		9.75	55.25	50	**	0.05	0.353	0.390	10.50	
Pentachlorophenol	1	0		9.71	37.41	50	20	0.05	0.181	0.124	25.17	C1
Phenanthrene	1	0		9.95	47.97	50	20	0.7	1.118	1.073	4.05	
Anthracene	1	0		10.00	49.68	50	20	0.7	1.119	1.112	0.64	
Carbazole	1	0		10.17	50.41	50	20	0.01	1.021	1.029	0.83	
Di-n-butylphthalate	1	0		10.54	54.95	50	20	0.01	1.068	1.217	9.90	
Fluoranthene	1	0		11.29	48.55	50	20	0.6	1.210	1.175	2.90	
Chrysene-d12	1	0	I	12.99	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.55	51.82	50	20	0.6	1.187	1.230	3.65	
Benzidine	1	0		11.44	50.36	50	**		0.671	0.693	0.71	
Terphenyl-d14	1	0	S	11.73	23.20	25	**		0.701	0.651	7.20	
4,4'-DDE	1	0		11.66	45.00		**		0.259			
4,4'-DDD	1	0		12.07	51.41		**		0.427			
Butylbenzylphthalate	1	0		12.31	61.46	50	20	0.01	0.433	0.541	22.91	C1
4,4'-DDT	1	0		12.42	50.18		**		0.391			
3,3'-Dichlorobenzidine	1	0		12.95	49.12	50	20	0.01	0.477	0.481	1.75	
Benzo[a]anthracene	1	0		12.98	50.84	50	20	0.8	1.206	1.226	1.68	
Chrysene	1	0		13.02	48.03	50	20	0.7	1.201	1.154	3.95	
bis(2-Ethylhexyl)phthalate	1	0		12.99	64.21	50	20	0.01	0.618	0.815	28.41	C1
Perylene-d12	1	0	I	14.67	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.76	70.72	50	20	0.01	0.826	1.253	41.45	C1
Benzo[b]fluoranthene	1	0		14.22	50.81	50	20	0.7	1.100	1.117	1.61	
Benzo[k]fluoranthene	1	0		14.25	49.86	50	20	0.7	1.135	1.131	0.28	
Benzo[a]pyrene	1	0		14.60	50.32	50	20	0.7	1.070	1.076	0.64	
Indeno[1,2,3-cd]pyrene	1	0		16.08	45.45	50	20	0.5	1.273	1.157	9.11	
Dibenzo[a,h]anthracene	1	0		16.11	45.08	50	20	0.4	1.083	0.976	9.83	
Benzo[g,h,i]perylene	1	0		16.49	45.48	50	20	0.5	1.059	0.963	9.04	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M109261.D **Instrument:** GCMS 9

Cont Calibration Date/Time 11/1/2021 10:32:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.687	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.037	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1102001 0121

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118179.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 09:46

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	63296	2.56	77040	5.80	293898	6.80	151485	8.23	287097	9.68	268402	12.73	280818	14.35
Eval File Area Limit:	31648-126592		38520-154080		146949-587796		75742-302970		143548-574194		134201-536804		140409-561636	
Eval File Rt Limit:	2.06-3.06		5.3-6.3		6.3-7.3		7.73-8.73		9.18-10.18		12.23-13.23		13.85-14.85	

Data File	Sample#													
5M118179.D	CAL BNA@50PPM	63296	2.56	77040	5.80	293898	6.80	151485	8.23	287097	9.68	268402	12.73	280818	14.35
5M118180.D	CAL BNA@10PPM	58584	2.56	72909	5.80	288576	6.80	149160	8.22	284358	9.68	252652	12.73	264012	14.34
5M118181.D	CAL BNA@2PPM	76929	2.56	99683	5.80	399603	6.80	201059	8.22	380256	9.68	331595	12.73	348704	14.35
5M118182.D	CAL BNA@196PPM	56266	2.56	65981	5.80	257365	6.80	133515	8.23	253430	9.68	251230	12.74	258254	14.35
5M118183.D	CAL BNA@160PPM	60654	2.56	74436	5.80	280789	6.80	142278	8.23	275606	9.68	270868	12.74	272679	14.35
5M118184.D	CAL BNA@120PPM	76476	2.56	90353	5.80	344669	6.81	174310	8.23	331203	9.68	326582	12.74	337948	14.35
5M118185.D	CAL BNA@80PPM	64875	2.56	79673	5.80	301407	6.80	152512	8.23	291397	9.68	280378	12.74	296285	14.35
5M118186.D	CAL BNA@20PPM	63048	2.56	80375	5.80	309606	6.80	158682	8.23	299988	9.68	274859	12.73	287473	14.35
5M118187.D	CAL BNA@0.5PPM	63196	2.56	80953	5.80	310870	6.80	159598	8.22	305634	9.68	260399	12.73	271408	14.34
5M118188.D	ICV BNA@50PPM	85295	2.56	106545	5.80	408594	6.80	210741	8.23	402355	9.68	382654	12.73	395717	14.35
5M118189.D	AD26497-008	65733	2.56	82859	5.80	319432	6.80	164496	8.22	312769	9.68	264336	12.73	282902	14.35
5M118190.D	AD26497-007	88955	2.56	111050	5.80	445844	6.80	223358	8.22	426733	9.68	380919	12.73	401938	14.35
5M118191.D	AD26509-002	82699	2.56	106386	5.79	423577	6.80	213165	8.22	394516	9.68	340772	12.73	365617	14.35
5M118192.D	AD26509-001	91142	2.56	107847	5.80	431734	6.80	221583	8.22	418025	9.68	362363	12.73	393343	14.35
5M118193.D	AD26503-021	54624	2.56	69330	5.80	274672	6.80	137287	8.22	261172	9.68	224115	12.73	236660	14.34
5M118194.D	AD26497-007(MS)	77237	2.56	95980	5.80	366959	6.80	182546	8.23	348210	9.68	334362	12.73	341671	14.35
5M118195.D	AD26497-007(MSD)	80154	2.56	97342	5.80	376263	6.80	189117	8.23	361692	9.68	339154	12.74	348393	14.35
5M118196.D	WMB95219	77171	2.56	98377	5.79	381120	6.80	195575	8.22	365724	9.68	318806	12.73	339412	14.35

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1102001 0122

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M108717.D Method: EPA 8270E

Analysis Date/Time: 10/13/21 12:21

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
Eval File Area Limit:	17714-70856		35041-140164		137126-548506		70144-280574		139070-556280		150900-603598		183194-732774	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.92-8.92		9.41-10.41		12.48-13.48		14.12-15.12	

Data File	Sample#													
9M108709.D	CAL BNA@10PPM	34700	2.80	65516	5.97	265228	6.98	135831	8.42	265051	9.91	277168	12.97	315415	14.62
9M108710.D	CAL BNA@2PPM	33605	2.80	64419	5.97	257112	6.98	131833	8.43	257795	9.91	257309	12.98	296713	14.62
9M108711.D	CAL BNA@196PPM	33719	2.80	61337	5.97	241868	6.98	122453	8.43	237938	9.91	260650	12.98	294177	14.63
9M108712.D	CAL BNA@160PPM	35996	2.80	69124	5.97	273936	6.98	136523	8.43	268756	9.91	289705	12.98	328313	14.63
9M108713.D	CAL BNA@120PPM	36366	2.80	70288	5.97	277888	6.98	139013	8.43	273562	9.91	299304	12.98	341975	14.62
9M108714.D	CAL BNA@80PPM	34771	2.80	68655	5.97	273996	6.98	139209	8.42	273683	9.91	297476	12.98	340499	14.62
9M108715.D	CAL BNA@20PPM	33643	2.80	67821	5.97	265945	6.98	135364	8.42	268679	9.91	287171	12.97	330844	14.62
9M108716.D	CAL BNA@0.5PPM	34071	2.80	69631	5.97	276011	6.98	142206	8.42	284240	9.91	292603	12.97	342572	14.62
9M108717.D	CAL BNA@50PPM	35428	2.80	70082	5.97	274253	6.98	140287	8.42	278140	9.91	301799	12.98	366387	14.62
9M108718.D	BNA@50PPM	38344	2.80	80633	5.97	318838	6.98	168953	8.42	330314	9.91	379481	12.98	430917	14.62
9M108719.D	ICV BNA@50PPM	33582	2.80	68739	5.97	271416	6.98	142007	8.42	278344	9.91	312757	12.98	362944	14.62
9M108720.D	SMB95218	28739	2.78	61936	5.97	235735	6.98	126987	8.42	248724	9.91	264781	12.97	293547	14.62
9M108721.D	AD26497-002	30440	2.78	60069	5.97	236959	6.98	119605	8.42	237191	9.91	240972	12.97	275125	14.62
9M108722.D	AD26497-003	31011	2.78	60757	5.97	238028	6.98	120813	8.42	241358	9.91	251407	12.97	289358	14.62
9M108723.D	AD26497-004	29769	2.78	58389	5.97	232738	6.97	119075	8.42	237707	9.91	237789	12.97	269610	14.62
9M108724.D	AD26497-005	26560	2.78	52023	5.97	216264	6.98	111540	8.42	217865	9.91	227780	12.97	251103	14.62
9M108725.D	AD26383-001(30X)	39983	2.80	77364	5.97	308859	6.98	156298	8.42	307008	9.91	306057	12.97	353188	14.62
9M108726.D	OMB95201	41826	2.79	84166	5.97	336183	6.98	174841	8.42	342000	9.91	346831	12.97	402557	14.62
9M108727.D	SMB95218(MS)	32825	2.78	59968	5.97	242111	6.98	127473	8.42	245667	9.91	265171	12.98	300545	14.62
9M108728.D	SMB95225	36430	2.78	62408	5.97	254419	6.97	127919	8.42	249794	9.91	242886	12.97	278357	14.62
9M108729.D	SMB95225(MS)	38021	2.79	64793	5.97	256611	6.98	129476	8.42	248758	9.91	259162	12.98	291042	14.62
9M108730.D	AD26503-007	36325	2.79	71178	5.97	289628	6.98	150146	8.42	292209	9.91	297971	12.97	342955	14.62
9M108731.D	AD26503-002	37755	2.78	72354	5.97	292831	6.98	148836	8.42	289385	9.91	284839	12.97	324736	14.62
9M108732.D	AD26503-015	34657	2.78	65824	5.97	264334	6.98	134547	8.42	262632	9.91	260119	12.97	297499	14.62
9M108733.D	AD26503-009	38291	2.78	70890	5.97	284272	6.98	143538	8.42	279901	9.91	275502	12.97	317033	14.62
9M108734.D	AD26503-005	36106	2.78	67535	5.97	272491	6.98	137941	8.42	268779	9.91	262991	12.97	300659	14.62
9M108735.D	AD26503-001	35619	2.78	67941	5.97	277837	6.98	139921	8.42	269025	9.91	269641	12.97	304637	14.62
9M108736.D	AD26404-001	36637	2.78	70203	5.97	280570	6.98	144648	8.42	268627	9.91	272205	12.97	311237	14.62
9M108737.D	AD26404-001(MS)	36101	2.78	68988	5.97	275510	6.98	138704	8.42	261239	9.91	267946	12.98	306233	14.62
9M108738.D	AD26404-001(MSD)	35416	2.78	67918	5.97	272473	6.98	137290	8.42	258003	9.91	264275	12.98	297844	14.62

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1102001 0123

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118316.D Method: EPA 8270E

Analysis Date/Time: 10/29/21 08:54

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	64415	2.55	75881	5.78	299962	6.79	150619	8.22	285283	9.67	272918	12.72	296301	14.34
Eval File Area Limit:	32208-128830		37940-151762		149981-599924		75310-301238		142642-570566		136459-545836		148150-592602	
Eval File Rt Limit:	2.05-3.05		5.28-6.28		6.29-7.29		7.72-8.72		9.17-10.17		12.22-13.22		13.84-14.84	

Data File	Sample#													
5M118317.D	TEST	52032	2.56	62364	5.78	243991	6.79	122714	8.22	229487	9.67	201552	12.72	220430	14.34
5M118318.D	WMB95414	74226	2.56	92894	5.78	365256	6.79	187179	8.22	354500	9.67	308337	12.72	334357	14.34
5M118319.D	WMB95414(MS)	53047	2.56	66520	5.78	254123	6.79	121801	8.22	235943	9.67	229439	12.72	245205	14.34
5M118320.D	AD26856-001(T)	53607	2.57	66085	5.78	261323	6.79	130065	8.22	251458	9.67	219952	12.72	239012	14.34
5M118321.D	AD26856-001(T)(MS)	52351	2.57	63140	5.78	235800	6.79	121019	8.22	226229	9.67	224216	12.72	230079	14.34
5M118322.D	AD26856-001(T)(MSD	50581	2.57	62478	5.78	237941	6.79	118401	8.22	226541	9.67	218860	12.72	230014	14.34
5M118323.D	AD26856-002(T)	49782	2.57	63122	5.78	247589	6.79	125265	8.22	234910	9.67	210175	12.72	227922	14.33
5M118324.D	EF1 V-360062(10/26)	51172	2.57	64346	5.78	248007	6.79	125350	8.22	243738	9.67	216799	12.72	229923	14.33
5M118325.D	AD26840-001(T)	51464	2.56	64087	5.78	245763	6.79	123591	8.22	237349	9.67	210047	12.72	223915	14.34
5M118326.D	AD26840-001	50772	2.56	63363	5.78	241267	6.79	122011	8.22	233926	9.67	203500	12.72	222902	14.33
5M118327.D	AD26759-006(R)	51311	2.56	63743	5.78	249711	6.79	125759	8.22	240289	9.67	213778	12.72	228639	14.33
5M118328.D	AD26743-001(R)	49098	2.56	61785	5.78	234691	6.79	115227	8.22	216704	9.67	198903	12.72	218927	14.33
5M118329.D	AD26855-001	54783	2.57	67515	5.78	264395	6.79	144247	8.22	247117	9.70	250561	12.73	273350	14.34
5M118330.D	WMB95414(MS)(DUP)	57101	2.56	69376	5.78	260946	6.79	133160	8.22	249898	9.67	239420	12.72	261965	14.34
5M118331.D	SMB95427(MS)	70886	2.54	69735	5.78	260934	6.79	133201	8.22	250535	9.67	238390	12.72	250673	14.34
5M118332.D	SMB95427	56146	2.54	63632	5.78	255325	6.79	133994	8.22	254754	9.67	235936	12.72	254580	14.34

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1102001 0124

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109203.D Method: EPA 8270E

Analysis Date/Time: 10/29/21 17:37

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	32612	2.81	58641	5.97	235434	6.98	118957	8.43	230028	9.92	247399	12.99	293080	14.65
Eval File Area Limit:	16306-65224		29320-117282		117717-470868		59478-237914		115014-460056		123700-494798		146540-586160	
Eval File Rt Limit:	2.31-3.31		5.47-6.47		6.48-7.48		7.93-8.93		9.42-10.42		12.49-13.49		14.15-15.15	

Data File	Sample#													
9M109204.D	SMB95427	29504	2.78	47921	5.97	197614	6.98	99539	8.43	192353	9.91	204030	12.99	240362	14.64
9M109205.D	AD26838-012	33610	2.79	56942	5.97	230945	6.98	115729	8.43	219552	9.91	221082	12.99	254589	14.64
9M109206.D	AD26843-002	35976	2.80	62890	5.97	251319	6.98	125088	8.43	235840	9.91	240124	12.99	276781	14.64
9M109207.D	AD26843-004	34351	2.80	59549	5.97	239459	6.98	118657	8.43	224863	9.91	222108	12.99	261607	14.65
9M109208.D	AD26844-004	29556	2.80	51038	5.97	203485	6.98	100268	8.43	187571	9.91	187103	12.99	221626	14.64
9M109209.D	AD26940-001(5X)(MS	40302	2.81	72540	5.97	287919	6.98	148638	8.43	270934	9.92	272995	12.99	316353	14.64
9M109210.D	AD26941-001(5X)	39075	2.82	69132	5.97	273318	6.98	135259	8.43	259129	9.92	257271	12.99	300211	14.64
9M109211.D	AD26861-002(MS)	27799	2.80	48134	5.97	189892	6.98	93428	8.43	175788	9.92	179978	12.99	206103	14.64
9M109212.D	AD26861-002(MSD)	33179	2.81	58567	5.97	227865	6.98	112419	8.43	214803	9.91	221773	12.99	251954	14.64
9M109213.D	AD26682-008(10X)	34152	2.82	59406	5.97	234128	6.98	115398	8.43	216033	9.91	215555	12.99	252263	14.64
9M109214.D	AD26679-005(10X)	32992	2.81	59407	5.97	233351	6.98	113318	8.43	215534	9.92	217064	12.99	247881	14.65
9M109215.D	AD26679-001(10X)	33540	2.82	58801	5.98	232528	6.98	115202	8.43	217574	9.91	213599	12.99	250239	14.65
9M109216.D	AD26679-001(10X)(M	32956	2.82	56940	5.97	229857	6.98	114575	8.43	213229	9.91	213119	12.99	250871	14.65
9M109217.D	AD26679-001(10X)(M	32864	2.82	57371	5.97	230026	6.98	113886	8.43	213338	9.91	210082	12.99	246405	14.65
9M109218.D	AD26681-002(3X)	36675	2.82	64621	5.97	254880	6.98	127492	8.43	238896	9.91	234447	12.99	275145	14.65
9M109219.D	AD26682-007(3X)	33339	2.81	57084	5.97	229409	6.98	111817	8.43	210759	9.91	210796	12.99	243387	14.65
9M109220.D	AD26679-007(20X)	33731	2.83	58219	5.97	232906	6.98	114930	8.43	216142	9.91	213810	12.99	247782	14.65
9M109221.D	AD26679-006(20X)	33409	2.82	59123	5.97	233201	6.98	114623	8.43	215745	9.92	213269	13.00	245618	14.65
9M109222.D	AD26679-004(20X)	33718	2.83	58819	5.97	233485	6.98	116134	8.43	219047	9.92	215163	12.99	248578	14.65
9M109223.D	AD26679-003(20X)	33710	2.83	59364	5.97	233080	6.98	115387	8.43	213446	9.91	210389	12.99	246519	14.64
9M109224.D	AD26679-002(20X)	34027	2.83	58539	5.97	233449	6.98	115258	8.43	218297	9.91	212546	12.99	247375	14.64
9M109225.D	AD26679-008(20X)	33577	2.82	58973	5.97	233944	6.98	115763	8.43	215848	9.91	214246	12.99	247391	14.65
9M109226.D	AD26681-004	33842	2.80	60210	5.97	240192	6.98	118343	8.43	219945	9.91	219322	12.99	257043	14.65
9M109227.D	AD26681-003	32015	2.81	57001	5.97	226644	6.98	113781	8.43	211085	9.91	209172	12.99	237634	14.65
9M109228.D	AD26681-001	33550	2.81	58826	5.97	232181	6.98	115225	8.43	213797	9.91	212900	12.99	240845	14.65

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1102001 0125

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109230.D Method: EPA 8270E

Analysis Date/Time: 10/31/21 11:20

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	25984	2.80	50691	5.97	212670	6.98	104604	8.43	196503	9.92	188054	12.99	200413	14.65
Eval File Area Limit:	12992-51968		25346-101382		106335-425340		52302-209208		98252-393006		94027-376108		100206-400826	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.93-8.93		9.42-10.42		12.49-13.49		14.15-15.15	

Data File	Sample#													
9M109231.D	SMB95440	26117	2.80	49032	5.97	198088	6.98	98036	8.43	185258	9.91	163651	12.99	173602	14.65
9M109232.D	OMB95441	23911	2.80	45183	5.97	185139	6.98	90500	8.43	172163	9.91	150248	12.98	158152	14.64
9M109233.D	AD26843-002(MS)	22995	2.78	42828	5.97	173226	6.98	83905	8.43	155735	9.91	143016	12.99	148396	14.64
9M109234.D	AD26843-002(MSD)	23213	2.78	43010	5.97	175246	6.98	85385	8.43	158747	9.91	146023	12.99	152659	14.65
9M109235.D	AD26933-001	27287	2.78	51435	5.97	209256	6.98	104221	8.43	191287	9.91	166506	12.99	177016	14.64
9M109236.D	AD26933-001(MS)	25017	2.80	47046	5.97	193854	6.98	94203	8.43	172678	9.91	157094	12.99	164167	14.65
9M109237.D	AD26933-001(MSD)	25860	2.80	49129	5.97	198708	6.98	96898	8.43	176833	9.91	161285	12.99	165585	14.64
9M109238.D	AD26876-001	21457	2.79	40110	5.97	165278	6.98	80466	8.43	148485	9.91	127764	12.98	136458	14.64
9M109239.D	AD26943-001	24071	2.78	45773	5.97	184453	6.98	89405	8.43	163845	9.91	142384	12.99	152104	14.64
9M109240.D	AD26913-001	24123	2.78	46214	5.97	186142	6.98	91176	8.43	166958	9.91	143396	12.99	154401	14.64
9M109241.D	AD26783-001	27676	2.79	50346	5.97	206786	6.98	106595	8.43	194573	9.92	163036	12.99	173545	14.65
9M109242.D	AD26767-001	28805	2.79	54746	5.97	221113	6.98	108949	8.43	197107	9.91	177470	13.00	197891	14.66
9M109243.D	AD26880-001	25423	2.78	48448	5.97	211318	6.98	119031	8.45	174665	9.95	174082	13.01	177615	14.65
9M109244.D	AD26881-001	26441	2.78	51588	5.97	212756	6.98	131586	8.44	203840	9.93	162710	12.99	173770	14.65
9M109245.D	AD26812-002	28031	2.78	53226	5.97	215587	6.98	105869	8.43	193894	9.91	163213	12.99	177581	14.65
9M109246.D	AD26918-001	24453	2.80	46433	5.97	188485	6.98	90858	8.43	166756	9.91	143439	12.99	152692	14.65
9M109247.D	AD26918-004	23265	2.79	45138	5.97	184682	6.98	89062	8.43	162718	9.91	138214	12.99	150824	14.65
9M109248.D	AD26799-001(5X)	32285	2.80	62490	5.97	250078	6.98	121235	8.43	222347	9.91	186812	12.99	199025	14.65
9M109249.D	AD26966-001(3X)	29897	2.80	56814	5.97	233598	6.98	114390	8.43	206509	9.91	174766	12.99	187149	14.65
9M109250.D	AD26966-002(3X)	28994	2.80	56228	5.97	224876	6.98	109212	8.43	201297	9.91	168133	12.99	181799	14.65
9M109251.D	AD26966-003(3X)	29390	2.80	55312	5.97	227430	6.98	109466	8.43	201801	9.91	168759	12.99	179514	14.65
9M109252.D	AD26817-001(3X)	28893	2.80	55478	5.97	226658	6.98	109896	8.43	200258	9.92	174839	12.99	180718	14.65
9M109253.D	AD26925-001(3X)	30398	2.80	58185	5.97	238371	6.98	114833	8.43	209729	9.91	175519	12.99	184919	14.65
9M109254.D	AD26799-001(5X)(MS)	32248	2.81	62455	5.97	249455	6.98	120780	8.43	221133	9.91	186823	12.99	191609	14.65
9M109255.D	AD26799-001(5X)(MS	31116	2.81	59961	5.97	241836	6.98	116361	8.43	214199	9.91	179860	12.99	187001	14.65
9M109256.D	26717-001(3X)	29694	2.80	55149	5.97	225912	6.98	111311	8.43	196988	9.91	168423	12.99	173620	14.65
9M109257.D	AD26918-010(3X)	29087	2.80	54625	5.97	224783	6.98	109650	8.43	196603	9.91	171973	12.99	175741	14.65
9M109258.D	AD26918-007(3X)	28702	2.80	55197	5.97	223779	6.98	107701	8.43	195879	9.92	170071	12.99	169766	14.65
9M109259.D	AD26882-001(3X)	28829	2.80	54244	5.97	223274	6.98	107817	8.43	200371	9.92	167834	12.99	162605	14.64

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1102001 0126

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109261.D Method: EPA 8270E

Analysis Date/Time: 11/01/21 10:32

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	26845	2.80	51332	5.97	213766	6.98	106991	8.44	199580	9.92	196311	12.99	205512	14.67
Eval File Area Limit:	13422-53690		25666-102664		106883-427532		53496-213982		99790-399160		98156-392622		102756-411024	
Eval File Rt Limit:	2.3-3.3		5.47-6.47		6.48-7.48		7.94-8.94		9.42-10.42		12.49-13.49		14.17-15.17	

Data File	Sample#													
9M109262.D	AD26933-002	26365	2.79	51290	5.97	210364	6.98	103473	8.44	192689	9.92	173713	12.99	185625	14.67
9M109263.D	AD26756-001	22899	2.79	44306	5.97	181979	6.98	89684	8.42	168148	9.91	150929	12.98	159112	14.64
9M109264.D	AD26756-002	21628	2.78	44286	5.97	175793	6.98	83860	8.42	158252	9.91	141033	12.98	149659	14.64
9M109265.D	26799-001(5X)(MS)	30662	2.81	60157	5.97	242867	6.99	117861	8.44	219979	9.92	203056	12.99	215469	14.65
9M109266.D	26799-001(5X)(MS)	25862	2.81	50319	5.97	202616	6.98	98863	8.43	185484	9.91	167890	12.99	180641	14.65
9M109267.D	26799-001(5X)(MSD)	27055	2.80	51814	5.97	211797	6.98	103328	8.42	192467	9.91	171794	12.98	182001	14.65
9M109268.D	AD26882-001(3X)	25599	2.81	48851	5.97	200948	6.98	97689	8.42	190917	9.91	162377	12.99	129571	14.64
9M109269.D	AD26717-001(3X)	28361	2.80	54312	5.97	223816	6.98	109027	8.43	201020	9.91	183168	12.99	187876	14.65
9M109270.D	SMB95366	26562	2.78	51846	5.97	215263	6.98	105482	8.42	197770	9.91	172173	12.98	178974	14.64
9M109271.D	AD26918-007(10X)	26217	2.80	50025	5.97	203644	6.98	100077	8.42	184173	9.91	165243	12.99	175738	14.64
9M109272.D	AD26918-010(10X)	26691	2.80	49761	5.97	203575	6.98	101502	8.42	185435	9.91	162671	12.98	174820	14.64
9M109273.D	AD26817-001(20X)	26828	2.80	50940	5.97	204653	6.98	99562	8.42	187103	9.91	165236	12.98	175174	14.64
9M109274.D	AD26679-006(60X)	29195	2.80	55452	5.97	226638	6.98	110657	8.42	206484	9.91	184943	12.99	196234	14.64
9M109275.D	AD26679-004(60X)	29882	2.80	58150	5.97	236927	6.98	116055	8.42	216735	9.91	194136	12.99	202609	14.64
9M109276.D	AD26988-001	27838	2.79	49960	5.97	206285	6.98	106644	8.44	190894	9.93	175775	13.00	180551	14.65
9M109277.D	AD26971-001	27109	2.78	51227	5.97	210165	6.98	104628	8.42	188913	9.91	170516	12.99	180001	14.65
9M109278.D	AD26971-007	26642	2.79	52729	5.97	214912	6.98	105301	8.42	195829	9.91	172011	12.98	181367	14.64
9M109279.D	AD26974-003	21288	2.78	40775	5.97	165569	6.98	81417	8.42	149349	9.91	128714	12.98	137298	14.64
9M109280.D	AD26816-004	25881	2.78	50277	5.97	202560	6.98	98775	8.42	184002	9.91	161504	12.98	173053	14.64
9M109281.D	AD26971-004	24849	2.78	47300	5.97	193834	6.98	93943	8.42	174644	9.91	152403	12.98	161876	14.64
9M109282.D	AD26971-010	21613	2.79	41251	5.97	172102	6.98	83406	8.42	152433	9.91	128606	12.98	140743	14.64

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26756-001
Client Id: SB-003SS (6-8.5)
Data File: 8G667252.D
Analysis Date: 10/29/21 15:21
Date Rec/Extracted: 10/20/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	81	U				

Worksheet #: 615385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667252.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:21:02
Operator : AH/ABM
Sample : AD26756-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:43:21 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

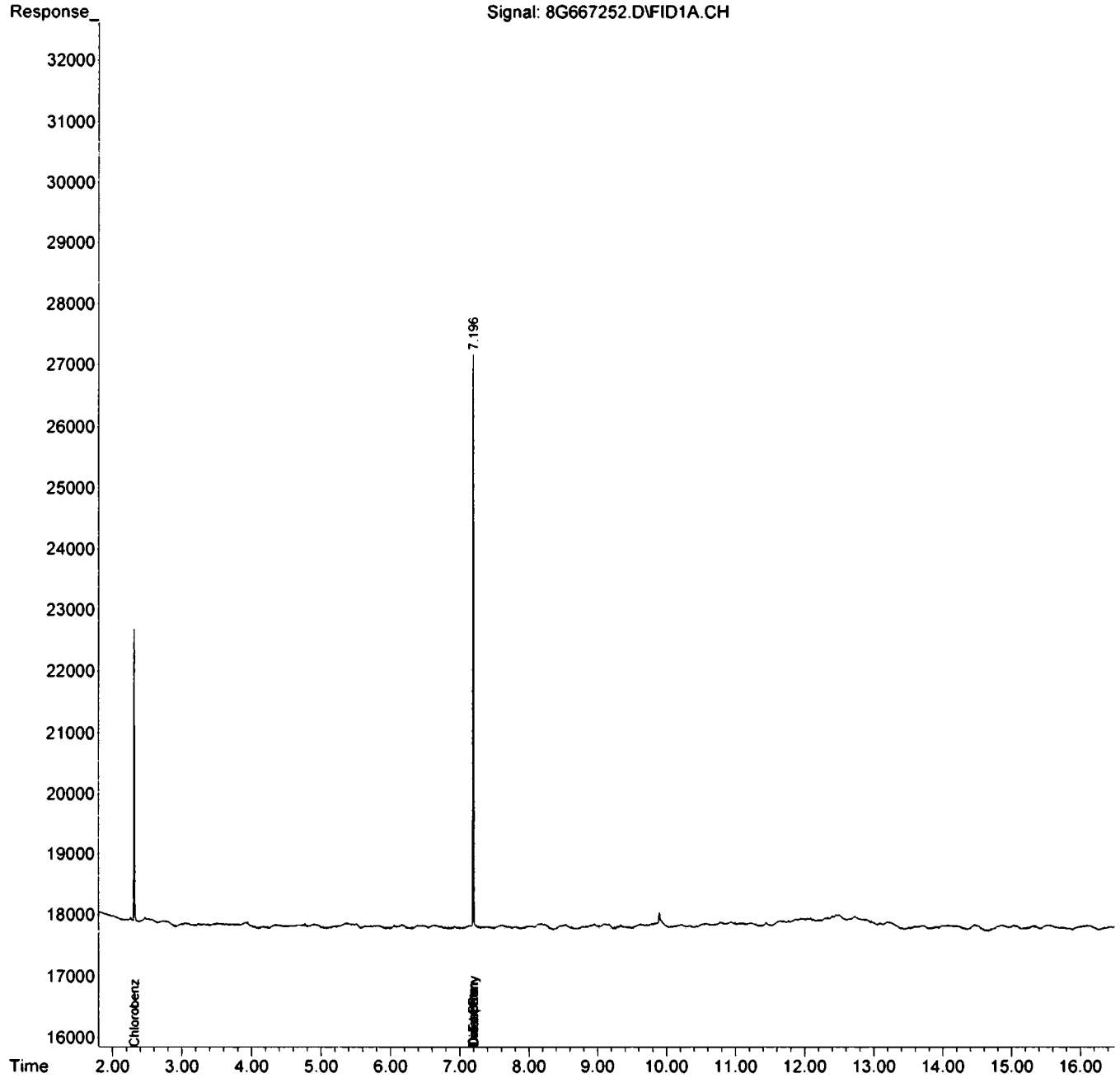
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.313	28228	12.863		
23)	O-Terphenyl	7.197	56020	14.389		
24)d	Diesel Range Organics(T	7.196f	214342	66.586		m
25)t	Total Petroleum Hydroca	7.196f	591427	188.631		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667252.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:21:02
Operator : AH/ABM
Sample : AD26756-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:43:21 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26756-002
Client Id: SB-007SS (4-6)
Data File: 8G667253.D
Analysis Date: 10/29/21 15:46
Date Rec/Extracted: 10/20/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**67**	**270**				

Worksheet #: 615385

Total Target Concentration 270

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667253.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:46:27
Operator : AH/ABM
Sample : AD26756-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:45:58 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

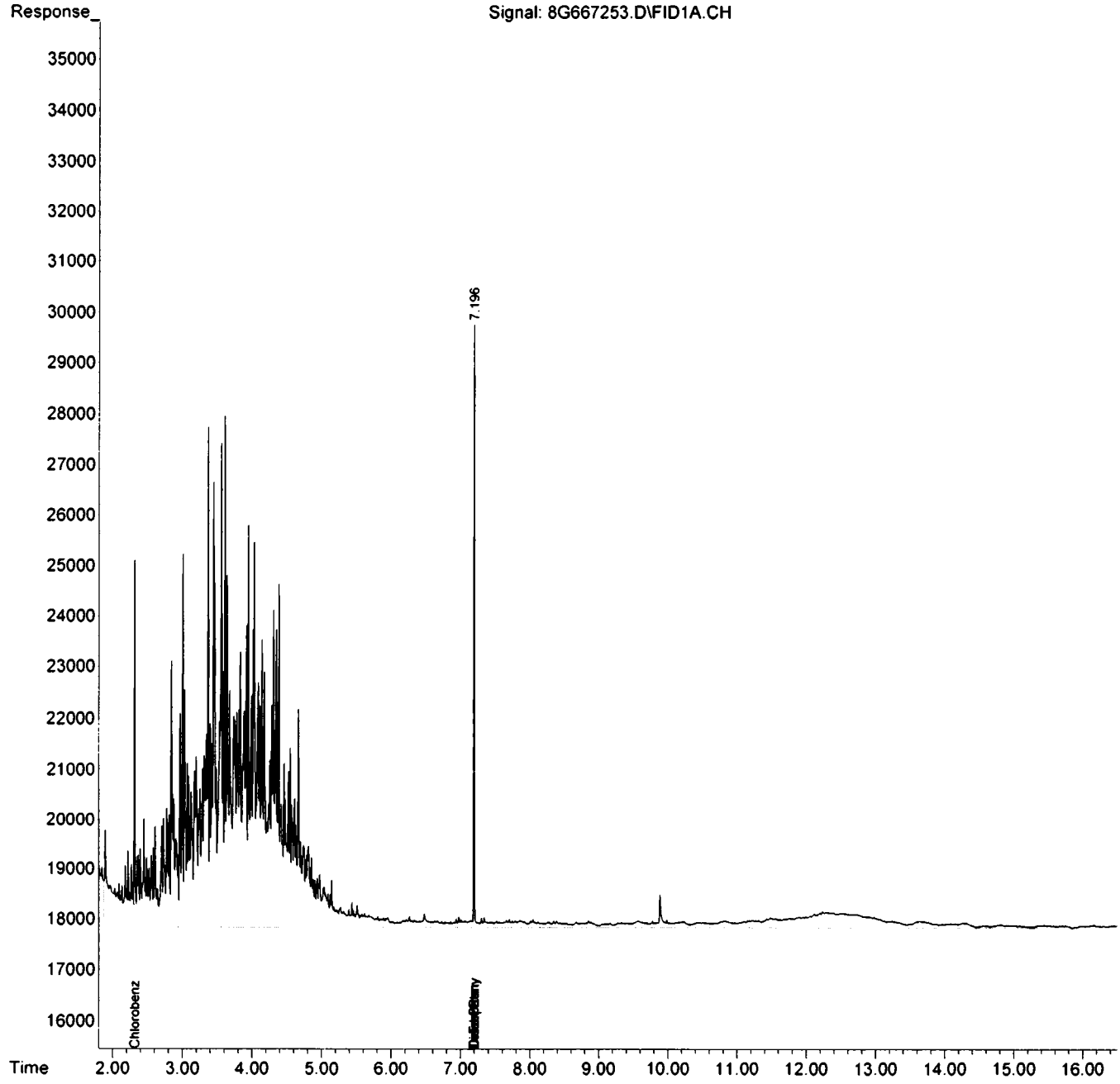
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.316	41956	19.119		
23)	O-Terphenyl	7.197	71775	18.436		
24)d	Diesel Range Organics(T	7.196f	3633867	1128.874		m
25)t	Total Petroleum Hydroca	7.196f	4935045	1573.991		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667253.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:46:27
Operator : AH/ABM
Sample : AD26756-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:45:58 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95430
Client Id:
Data File: 8G667250.D
Analysis Date: 10/29/21 14:31
Date Rec/Extracted: NA-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 615385

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

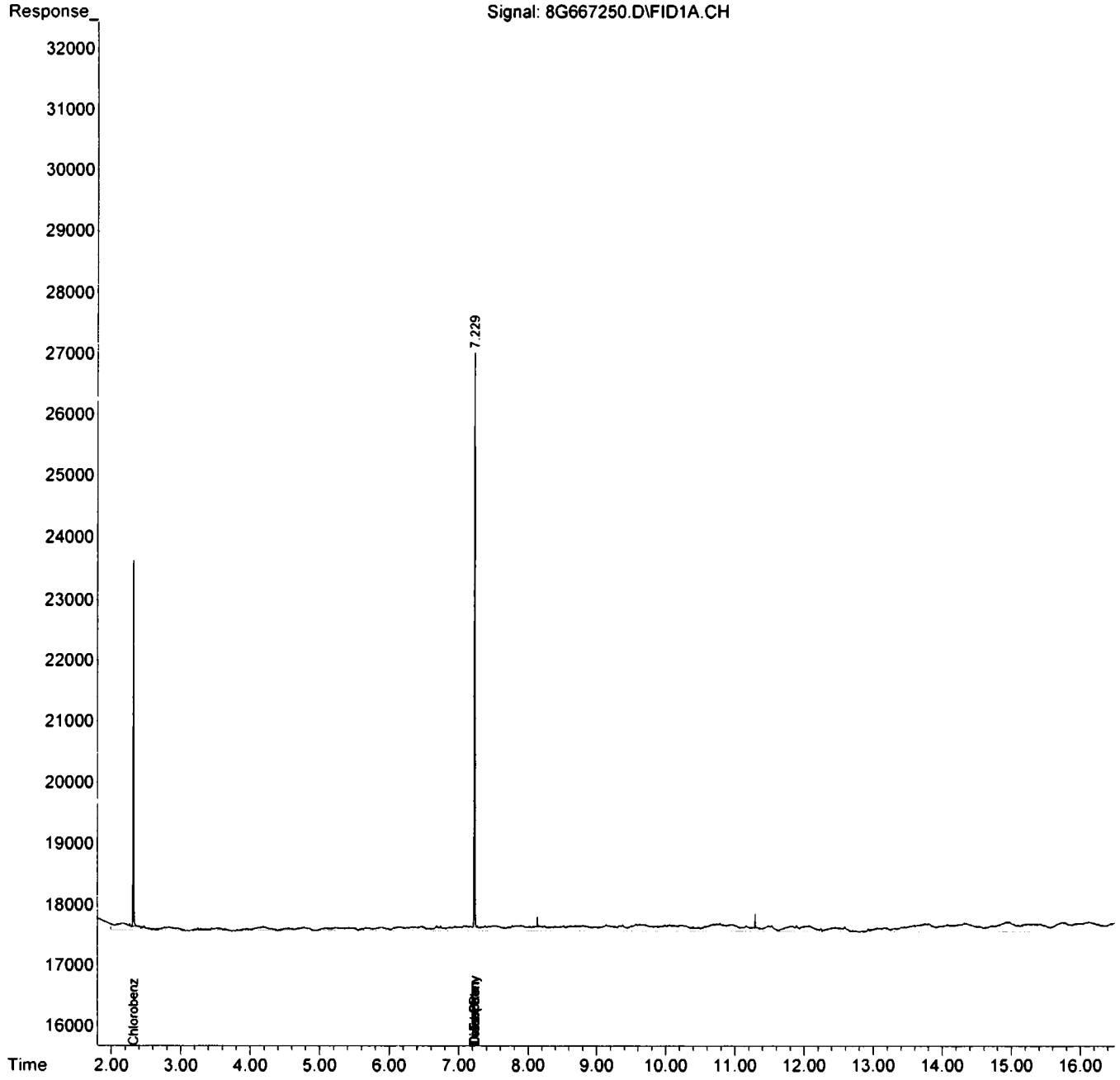
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.317	34100	15.539		
23)	O-Terphenyl	7.229	58399	15.001		
24)d	Diesel Range Organics(T	7.229f	289246	89.855		m
25)t	Total Petroleum Hydroca	7.229f	616531	196.637		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667250.D	SMB95430	S	10/29/21 14:31	1		78	75				
8G667252.D	AD26756-001	S	10/29/21 15:21	1		64	72				
8G667253.D	AD26756-002	S	10/29/21 15:46	1		96	92				
7G56050.D	AD26731-001	S	10/29/21 14:24	1		48	65				
8G667251.D	SMB95430(MS)	S	10/29/21 14:56	1		70	74				
8G667254.D	AD26731-001(MS)	S	10/29/21 16:11	1		68	73				
8G667255.D	AD26731-001(MSD)	S	10/29/21 16:36	1		68	71				

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667251.D	SMB95430(MS)	10/29/2021 2:56:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2184.82	0	3000	73	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	7319.05	3802.13	3000	117	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	7518.93	3802.13	3000	124	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Duplicate(If applicable):	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	7518.93	7319.05	2.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95430
Blank Data File: 8G667250.D
Matrix: Soil

Blank Analysis Date: 10/29/21 14:31
Blank Extraction Date: 10/29/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26756-001	8G667252.D	10/29/21 15:21
AD26756-002	8G667253.D	10/29/21 15:46
AD26731-001(MSD	8G667255.D	10/29/21 16:36
AD26731-001(MS)	8G667254.D	10/29/21 16:11
SMB95430(MS)	8G667251.D	10/29/21 14:56
AD26731-001	7G56050.D	10/29/21 14:24

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2)	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2)	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667247.D	INST BLK(MECL2)	10/29/21 09:34	Soil					
8G667248.D	CALTPH@20PPM	10/29/21 09:58	Soil	8G66724	7.1973	0		
8G667249.D	INST BLK(MECL2)	10/29/21 11:14	Aqueous	8G66724	0.0000	200		
8G667250.D	SMB95430	10/29/21 14:31	Soil	8G66724	7.2292	0.4422		
8G667251.D	SMB95430(MS)	10/29/21 14:56	Soil	8G66724	7.1983	0.0139		
8G667252.D	AD26756-001	10/29/21 15:21	Soil	8G66724	7.1967	0.0083		
8G667253.D	AD26756-002	10/29/21 15:46	Soil	8G66724	7.1966	0.0097		
8G667254.D	AD26731-001(MS)	10/29/21 16:11	Soil	8G66724	7.1966	0.0097		
8G667255.D	AD26731-001(MSD)	10/29/21 16:36	Soil	8G66724	7.1974	0.0014		
8G667256.D	AD26795-001	10/29/21 17:01	Soil	8G66724	7.1977	0.0056		
8G667257.D	AD26795-002	10/29/21 17:26	Soil	8G66724	7.1975	0.0028		
8G667258.D	CALTPH@20PPM	10/29/21 17:52	Soil	8G66724	7.1977	0.0056		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56047.D	INST BLK	10/29/21 09:36	Soil					
7G56048.D	CAL TPH@20PPM	10/29/21 10:05	Soil	7G56048.	8.1453	0		
7G56049.D	INST BLK	10/29/21 11:14	Soil	7G56048.	0.0000	200		
7G56050.D	AD26731-001	10/29/21 14:24	Soil	7G56048.	8.1515	0.0761		
7G56051.D	AD26731-002	10/29/21 14:53	Soil	7G56048.	8.1455	0.0025		
7G56052.D	AD26731-003	10/29/21 15:22	Soil	7G56048.	8.1423	0.0368		
7G56053.D	AD26731-002(3X)	10/29/21 15:52	Soil	7G56048.	8.1393	0.0737		
7G56054.D	CAL TPH@20PPM	10/29/21 16:21	Soil	7G56048.	8.1441	0.0147		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1102001 0145

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1102001 0147

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:	7G56048.D	7G56054.D	8G667248.D	8G667258.D
Method:	8015	8015	8015	8015
Calibration Name:	CAL TPH@20PPM	CAL TPH@20PPM	CALTPH@20PPM	CALTPH@20PPM
Calibration Date/Time	10/29/21 10:05	10/29/21 16:21	10/29/21 09:58	10/29/21 17:52

Compound	Limit	Col	Mr	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff
C8	20	1	0	17.6	20	12.0	18.14	20	9.3	20.85	20	4.3	16.63	20	16.9			
C9	20	1	0	17.96	20	10.2	18.44	20	7.8	21.41	20	7.0	16.63	20	16.9			
C10	20	1	0	17.51	20	12.5	18.33	20	8.4	21.88	20	9.4	16.9	20	15.5			
C12	20	1	0	16.47	20	17.7	17.2	20	14.0	22.81	20	14.1	17.21	20	14.0			
C14	20	1	0	17.52	20	12.4	20.01	20	0.1	23.47	20	17.4	16.73	20	16.4			
C16	20	1	0	18.7	20	6.5	19.93	20	0.3	24.19	20	21.0*	16.8	20	16.0			
C17	20	1	0	14.34	20	28.3*	17.21	20	14.0	23.68	20	18.4	17.02	20	14.9			
Pristane	20	1	0	25.86	20	29.3*	24.5	20	22.5*	23.58	20	17.9	16.73	20	16.4			
C18	20	1	0	17.67	20	11.7	18.22	20	8.9	24.56	20	22.8*	16.81	20	16.0			
Phytane	20	1	0	21.06	20	5.3	21.73	20	8.6	24.91	20	24.6*	16.69	20	16.6			
C20	20	1	0	20.95	20	4.8	20.75	20	3.8	25.17	20	25.9*	16.6	20	17.0			
C22	20	1	0	20.75	20	3.8	21.19	20	6.0	25.52	20	27.6*	16.74	20	16.3			
C24	20	1	0	20.81	20	4.0	21.09	20	5.5	25.33	20	26.7*	16.61	20	17.0			
C26	20	1	0	20.83	20	4.2	21.29	20	6.5	25.58	20	27.9*	16.28	20	18.6			
C28	20	1	0	20.77	20	3.9	21.23	20	6.1	25.41	20	27.1*	16.35	20	18.3			
C30	20	1	0	21.09	20	5.5	21.3	20	6.5	24.88	20	24.4*	16.39	20	18.1			
C32	20	1	0	21.22	20	6.1	21.48	20	7.4	24.39	20	22.0*	16.83	20	15.9			
C34	20	1	0	19.64	20	1.8	20.17	20	0.9	22.32	20	11.6	16.6	20	17.0			
C36	20	1	0	17.49	20	12.6	17.8	20	11.0	18.92	20	5.4	15.44	20	22.8*			
C40	20	1	0	13.63	20	31.9*	13.19	20	34.1*	13.62	20	31.9*	12.72	20	36.4*			
C44	20	1	0	9.67	20	51.7*	10.42	20	47.9*	12.94	20	35.3*	12.81	20	36.0*			
Chlorobenzene	20	1	0	18.8	20	6.0	20.11	20	0.6	22.03	20	10.2	16.58	20	17.1			
O-Terphenyl	20	1	0	21.21	20	6.0	21.76	20	8.8	24.91	20	24.6*	16.63	20	16.9			
Average Difference	20	1	0			12.5			10.4			19.9			18.5			

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26756-001
Client Id: SB-003SS (6-8.5)
Data File: 8G667252.D
Analysis Date: 10/29/21 15:21
Date Rec/Extracted: 10/20/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	81	U				

Worksheet #: 615392

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667252.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:21:02
Operator : AH/ABM
Sample : AD26756-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:43:21 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

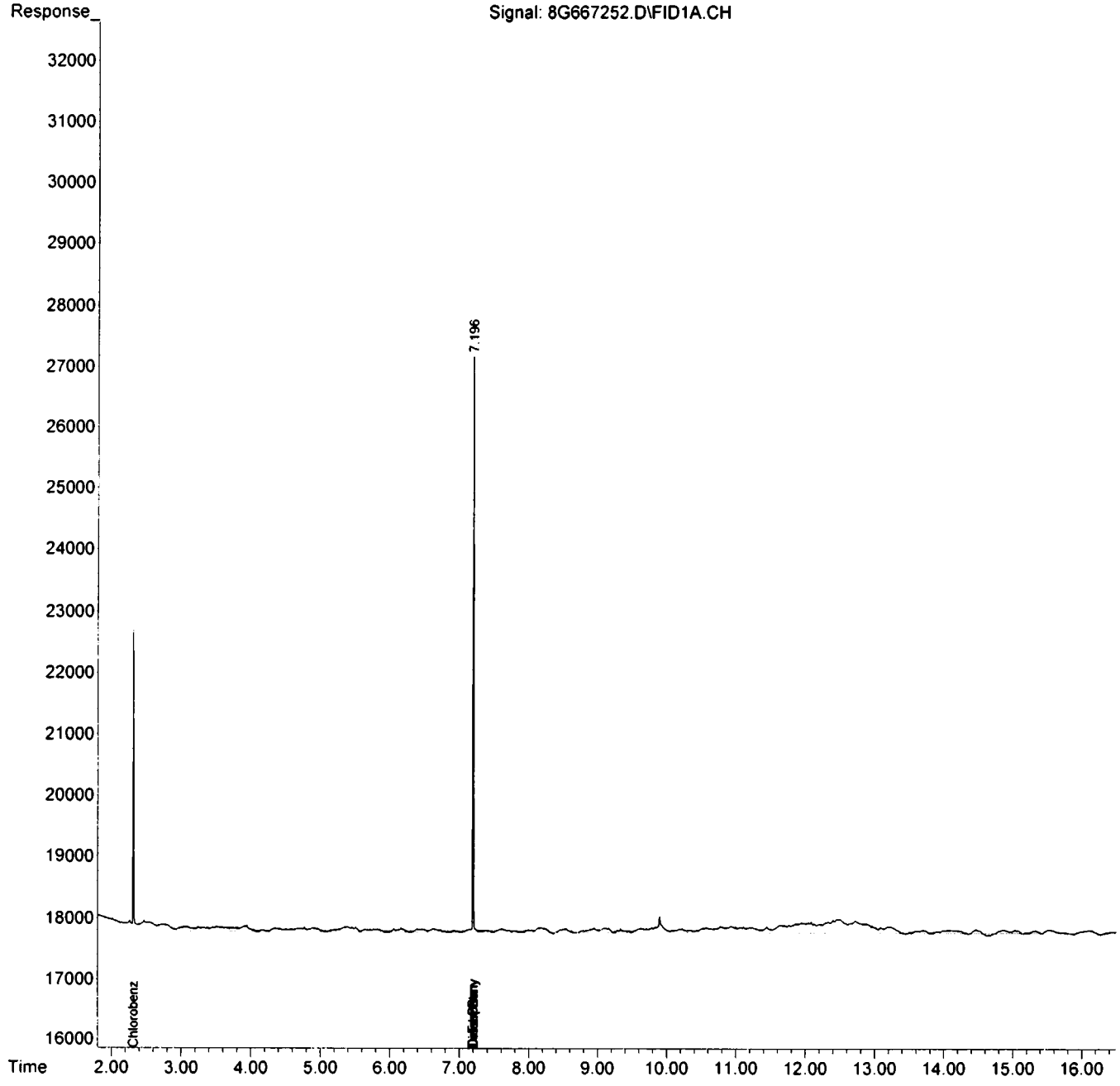
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.313	28228	12.863		
23)	O-Terphenyl	7.197	56020	14.389		
24)d	Diesel Range Organics(T	7.196f	214342	66.586		m
25)t	Total Petroleum Hydroca	7.196f	591427	188.631		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667252.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:21:02
Operator : AH/ABM
Sample : AD26756-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:43:21 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD26756-002
Client Id: SB-007SS (4-6)
Data File: 8G667253.D
Analysis Date: 10/29/21 15:46
Date Rec/Extracted: 10/20/21-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**67**	**220**				

Worksheet #: 615392 *Total Target Concentration* 220 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667253.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:46:27
Operator : AH/ABM
Sample : AD26756-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:45:58 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

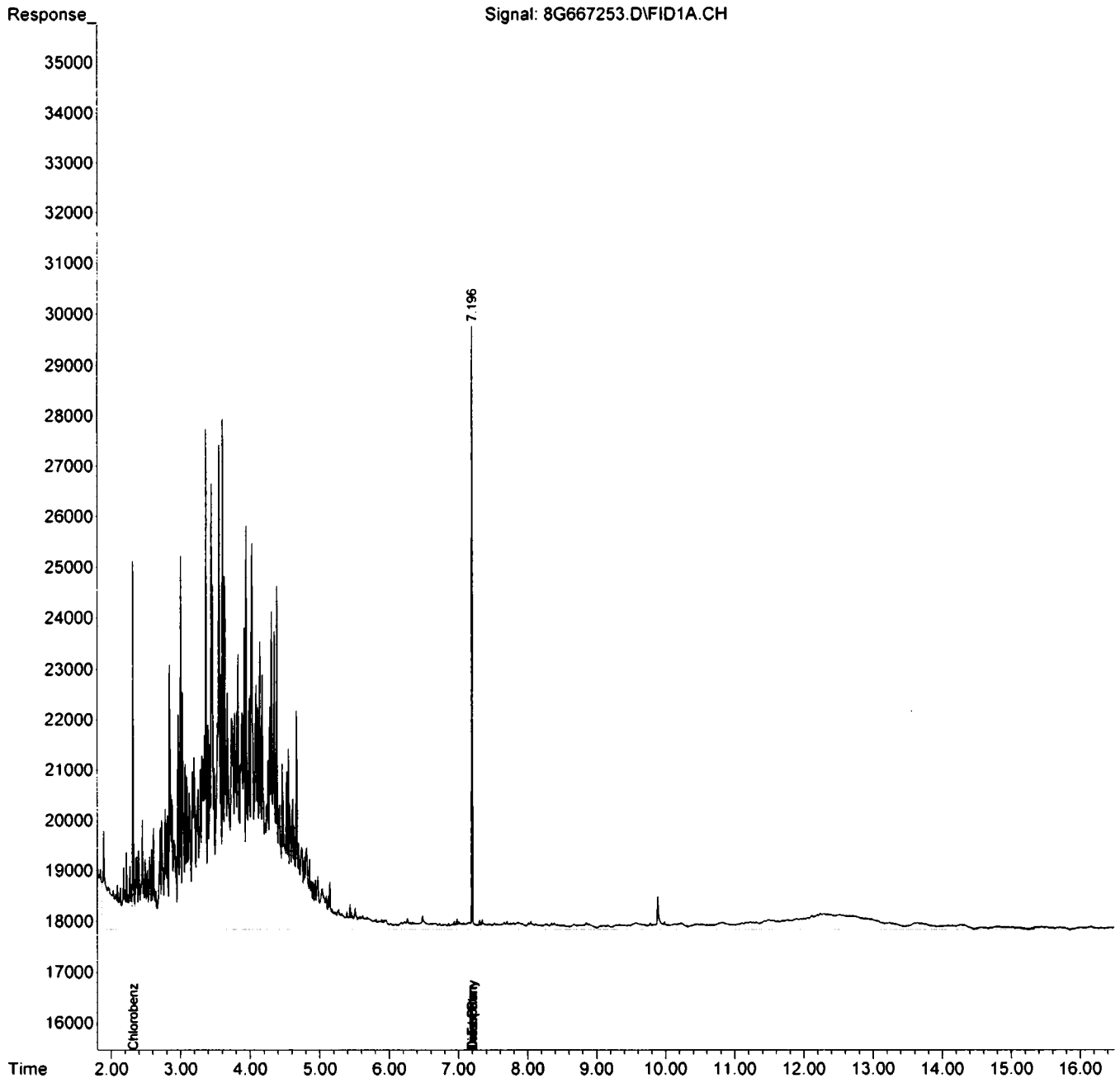
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.316	41956	19.119		
23)	O-Terphenyl	7.197	71775	18.436		
24)d	Diesel Range Organics(T	7.196f	3633867	1128.874		m
25)t	Total Petroleum Hydroca	7.196f	4935045	1573.991		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667253.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 15:46:27
Operator : AH/ABM
Sample : AD26756-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:45:58 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95430
Client Id:
Data File: 8G667250.D
Analysis Date: 10/29/21 14:31
Date Rec/Extracted: NA-10/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 615392

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

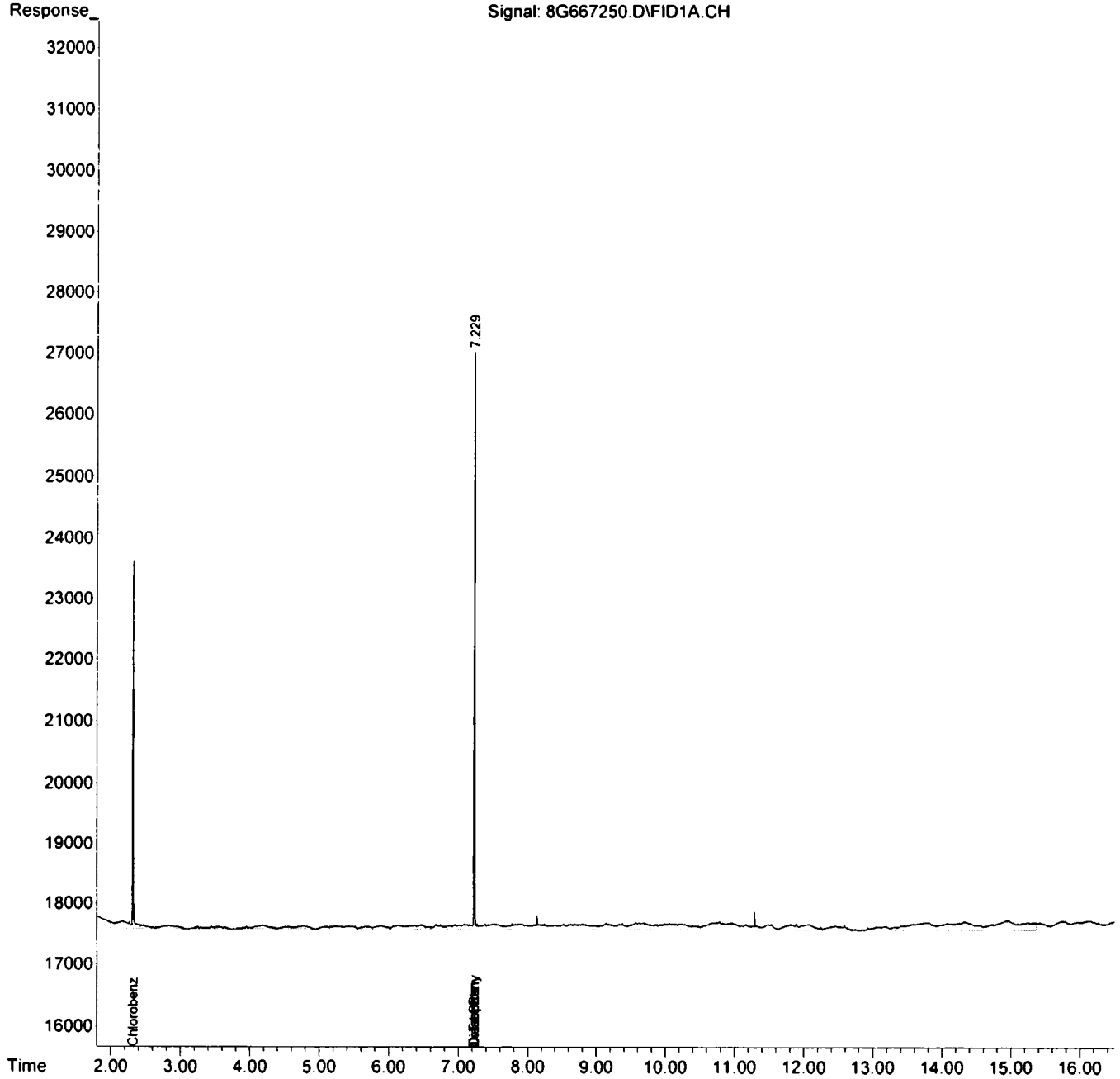
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.317	34100	15.539		
23)	O-Terphenyl	7.229	58399	15.001		
24)d	Diesel Range Organics(T	7.229f	289246	89.855		m
25)t	Total Petroleum Hydroca	7.229f	616531	196.637		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_8\Data\10-29-21\
Data File : 8G667250.D
Signal(s) : FID1A.CH
Acq On : 29-Oct-21, 14:31:08
Operator : AH/ABM
Sample : SMB95430
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 29 15:08:04 2021
Quant Method : G:\GCDATA\2021\GC_8\METHODQT\8G_T(C8-C44)1021.M
Quant Title : @GC_8,mg,8015
QLast Update : Mon Oct 25 11:05:52 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G667250.D	SMB95430	S	10/29/21 14:31	1		78	75				
8G667252.D	AD26756-001	S	10/29/21 15:21	1		64	72				
8G667253.D	AD26756-002	S	10/29/21 15:46	1		96	92				
7G56050.D	AD26731-001	S	10/29/21 14:24	1		48	65				
8G667251.D	SMB95430(MS)	S	10/29/21 14:56	1		70	74				
8G667254.D	AD26731-001(MS)	S	10/29/21 16:11	1		68	73				
8G667255.D	AD26731-001(MSD)	S	10/29/21 16:36	1		68	71				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667251.D	SMB95430(MS)	10/29/2021 2:56:03 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2184.82**	**0**	**3000**	**73**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	7319.05	3802.13	3000	117	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Non Spike(If applicable):	7G56050.D	AD26731-001	10/29/2021 2:24:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	7518.93	3802.13	3000	124	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95430

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G667255.D	AD26731-001(MSD)	10/29/2021 4:36:43 PM
Duplicate(If applicable):	8G667254.D	AD26731-001(MS)	10/29/2021 4:11:30 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**7518.93**	**7319.05**	**2.7**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95430
Blank Data File: 8G667250.D
Matrix: Soil

Blank Analysis Date: 10/29/21 14:31
Blank Extraction Date: 10/29/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26756-001	8G667252.D	10/29/21 15:21
AD26756-002	8G667253.D	10/29/21 15:46
AD26731-001(MSD	8G667255.D	10/29/21 16:36
AD26731-001(MS)	8G667254.D	10/29/21 16:11
SMB95430(MS)	8G667251.D	10/29/21 14:56
AD26731-001	7G56050.D	10/29/21 14:24

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667208.D	INST BLK(MECL2)	10/21/21 22:45	Soil					
8G667209.D	INST BLK(MECL2)	10/21/21 23:10	Soil					
8G667210.D	CALTPH@5PPM	10/21/21 23:36	Soil	8G66721	7.1995	0		
8G667211.D	CALTPH@10PPM	10/22/21 00:01	Soil	8G66721	7.1990	0.0069		
8G667212.D	CALTPH@20PPM	10/22/21 00:27	Soil	8G66721	7.1999	0.0056		
8G667213.D	CALTPH@40PPM	10/22/21 00:52	Soil	8G66721	7.1997	0.0028		
8G667214.D	CALTPH@100PPM	10/22/21 01:17	Soil	8G66721	7.2013	0.025		
8G667215.D	CALTPH@500PPM	10/22/21 01:43	Soil	8G66721	7.2092	0.1346		
8G667216.D	ICVTPH@20PPM	10/22/21 02:31	Soil	8G66721	7.1992	0.0042		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G667247.D	INST BLK(MECL2)	10/29/21 09:34	Soil					
8G667248.D	CALTPH@20PPM	10/29/21 09:58	Soil	8G66724	7.1973	0		
8G667249.D	INST BLK(MECL2)	10/29/21 11:14	Aqueous	8G66724	0.0000	200		
8G667250.D	SMB95430	10/29/21 14:31	Soil	8G66724	7.2292	0.4422		
8G667251.D	SMB95430(MS)	10/29/21 14:56	Soil	8G66724	7.1983	0.0139		
8G667252.D	AD26756-001	10/29/21 15:21	Soil	8G66724	7.1967	0.0083		
8G667253.D	AD26756-002	10/29/21 15:46	Soil	8G66724	7.1966	0.0097		
8G667254.D	AD26731-001(MS)	10/29/21 16:11	Soil	8G66724	7.1966	0.0097		
8G667255.D	AD26731-001(MSD)	10/29/21 16:36	Soil	8G66724	7.1974	0.0014		
8G667256.D	AD26795-001	10/29/21 17:01	Soil	8G66724	7.1977	0.0056		
8G667257.D	AD26795-002	10/29/21 17:26	Soil	8G66724	7.1975	0.0028		
8G667258.D	CALTPH@20PPM	10/29/21 17:52	Soil	8G66724	7.1977	0.0056		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56047.D	INST BLK	10/29/21 09:36	Soil					
7G56048.D	CAL TPH@20PPM	10/29/21 10:05	Soil	7G56048.	8.1453	0		
7G56049.D	INST BLK	10/29/21 11:14	Soil	7G56048.	0.0000	200		
7G56050.D	AD26731-001	10/29/21 14:24	Soil	7G56048.	8.1515	0.0761		
7G56051.D	AD26731-002	10/29/21 14:53	Soil	7G56048.	8.1455	0.0025		
7G56052.D	AD26731-003	10/29/21 15:22	Soil	7G56048.	8.1423	0.0368		
7G56053.D	AD26731-002(3X)	10/29/21 15:52	Soil	7G56048.	8.1393	0.0737		
7G56054.D	CAL TPH@20PPM	10/29/21 16:21	Soil	7G56048.	8.1441	0.0147		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1102001 0169

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1102001 0170

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G667210.D	CALTPH@5PPM	10/21/21 23:36	2	8G667211.D	CALTPH@10PPM	10/22/21 00:01
3	8G667212.D	CALTPH@20PPM	10/22/21 00:27	4	8G667213.D	CALTPH@40PPM	10/22/21 00:52
5	8G667214.D	CALTPH@100PPM	10/22/21 01:17	6	8G667215.D	CALTPH@500PPM	10/22/21 01:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2957	0.2737	0.2443	0.2739	0.2321	0.2440	----	----	0.261	2.00	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.3056	0.2866	0.2505	0.2870	0.2406	0.2509	----	----	0.270	2.63	1.00	1.00	9.7	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.3143	0.2945	0.2617	0.3040	0.2542	0.2620	----	----	0.282	3.24	0.998	0.998	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.3042	0.3015	0.2599	0.3138	0.2542	0.2614	----	----	0.283	4.33	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3135	0.2991	0.2532	0.3072	0.2434	0.2490	----	----	0.278	5.26	1.00	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.3655	0.3461	0.2878	0.3493	0.2722	0.2768	----	----	0.316	6.09	0.996	0.997	13	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.3507	0.3430	0.3029	0.3524	0.2755	0.2890	----	----	0.319	6.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.4991	0.4774	0.3848	0.4651	0.3517	0.3291	----	----	0.418	6.48	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.3750	0.3614	0.2980	0.3670	0.2802	0.2856	----	----	0.328	6.84	0.999	0.999	14	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.3555	0.3382	0.2734	0.3294	0.2486	0.2504	----	----	0.299	6.86	0.995	0.996	16	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4032	0.3749	0.3118	0.3881	0.2914	0.2938	----	----	0.344	7.51	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.3708	0.3743	0.2949	0.3694	0.2757	0.2771	----	----	0.327	8.14	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3913	0.3801	0.3030	0.3780	0.2800	0.2799	----	----	0.335	8.73	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3853	0.3667	0.2940	0.3674	0.2706	0.2693	----	----	0.326	9.30	0.999	0.999	16	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3957	0.3727	0.2997	0.3714	0.2724	0.2701	----	----	0.330	9.86	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.4052	0.3848	0.3071	0.3804	0.2782	0.2733	----	----	0.338	10.40	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3920	0.3733	0.2933	0.3637	0.2667	0.2619	----	----	0.325	10.94	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3953	0.3739	0.2958	0.3681	0.2676	0.2640	----	----	0.328	11.47	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3806	0.3156	0.2807	0.3513	0.2548	0.2553	----	----	0.306	11.99	0.993	0.994	17	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.3580	0.3295	0.2600	0.3242	0.2373	0.2407	----	----	0.292	13.23	0.999	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.3401	0.3074	0.2462	0.3157	0.2275	0.2408	----	----	0.280	15.28	0.999	0.999	17	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.2485	0.2317	0.2043	0.2341	0.1959	0.2018	----	----	0.219	2.32	1.00	1.00	9.8	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.4614	0.4317	0.3528	0.4303	0.3282	0.3312	----	----	0.389	7.20	0.999	0.999	15	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.3711	0.3561	0.2942	0.3586	0.2746	0.2764	----	----	0.322	3.24	0.999	0.999	14	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.3665	0.3464	0.2859	0.3489	0.2655	0.2678	----	----	0.314	2.00	0.999	0.999	14	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.3724	0.3536	0.2918	0.3563	0.2710	0.2721	----	----	0.320	2.63	0.999	0.999	14	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3067	0.2911	0.2539	0.2972	0.2449	0.2535	----	----	0.275	2.33	1.00	1.00	9.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 14.25 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56048.D				7G56054.D				8G667248.D				8G667258.D			
Method:				8015				8015				8015				8015			
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM				CALTPH@20PPM				CALTPH@20PPM			
Calibration Date/Time				10/29/21 10:05				10/29/21 16:21				10/29/21 09:58				10/29/21 17:52			
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff		Conc	Conc Exp	%Diff	
C8	20	1	0	17.6	20	12.0		18.14	20	9.3		20.85	20	4.3		16.63	20	16.9	
C9	20	1	0	17.96	20	10.2		18.44	20	7.8		21.41	20	7.0		16.63	20	16.9	
C10	20	1	0	17.51	20	12.5		18.33	20	8.4		21.88	20	9.4		16.9	20	15.5	
C12	20	1	0	16.47	20	17.7		17.2	20	14.0		22.81	20	14.1		17.21	20	14.0	
C14	20	1	0	17.52	20	12.4		20.01	20	0.1		23.47	20	17.4		16.73	20	16.4	
C16	20	1	0	18.7	20	6.5		19.93	20	0.3		24.19	20	21.0*		16.8	20	16.0	
C17	20	1	0	14.34	20	28.3*		17.21	20	14.0		23.68	20	18.4		17.02	20	14.9	
Pristane	20	1	0	25.86	20	29.3*		24.5	20	22.5*		23.58	20	17.9		16.73	20	16.4	
C18	20	1	0	17.67	20	11.7		18.22	20	8.9		24.56	20	22.8*		16.81	20	16.0	
Phytane	20	1	0	21.06	20	5.3		21.73	20	8.6		24.91	20	24.6*		16.69	20	16.6	
C20	20	1	0	20.95	20	4.8		20.75	20	3.8		25.17	20	25.9*		16.6	20	17.0	
C22	20	1	0	20.75	20	3.8		21.19	20	6.0		25.52	20	27.6*		16.74	20	16.3	
C24	20	1	0	20.81	20	4.0		21.09	20	5.5		25.33	20	26.7*		16.61	20	17.0	
C26	20	1	0	20.83	20	4.2		21.29	20	6.5		25.58	20	27.9*		16.28	20	18.6	
C28	20	1	0	20.77	20	3.9		21.23	20	6.1		25.41	20	27.1*		16.35	20	18.3	
C30	20	1	0	21.09	20	5.5		21.3	20	6.5		24.88	20	24.4*		16.39	20	18.1	
C32	20	1	0	21.22	20	6.1		21.48	20	7.4		24.39	20	22.0*		16.83	20	15.9	
C34	20	1	0	19.64	20	1.8		20.17	20	0.9		22.32	20	11.6		16.6	20	17.0	
C36	20	1	0	17.49	20	12.6		17.8	20	11.0		18.92	20	5.4		15.44	20	22.8*	
C40	20	1	0	13.63	20	31.9*		13.19	20	34.1*		13.62	20	31.9*		12.72	20	36.4*	
C44	20	1	0	9.67	20	51.7*		10.42	20	47.9*		12.94	20	35.3*		12.81	20	36.0*	
Chlorobenzene	20	1	0	18.8	20	6.0		20.11	20	0.6		22.03	20	10.2		16.58	20	17.1	
O-Terphenyl	20	1	0	21.21	20	6.0		21.76	20	8.8		24.91	20	24.6*		16.63	20	16.9	
Average Difference	20	1	0			12.5				10.4				19.9				18.5	

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)	8.15	(8.11 - 8.19)	7.20	(7.16 - 7.24)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD26756-001(400UL)
Client Id: SB-003SS (6-8.5)
Data File: 13M22884.D
Analysis Date: 10/22/21 14:29
Date Rec/Extracted: 10/20/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 7.11g:10ml
Final Vol: NA
Dilution: 141
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**48**	**680**				

Worksheet #: 615440

Total Target Concentration 680

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-22-21\
Data File : 13M22884.D
Signal(s) : FID1A.CH
Acq On : 22 Oct 2021 14:29
Operator : JM
Sample : AD26756-001(400UL)
Misc : M,MEXT!2
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 12:27:27 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

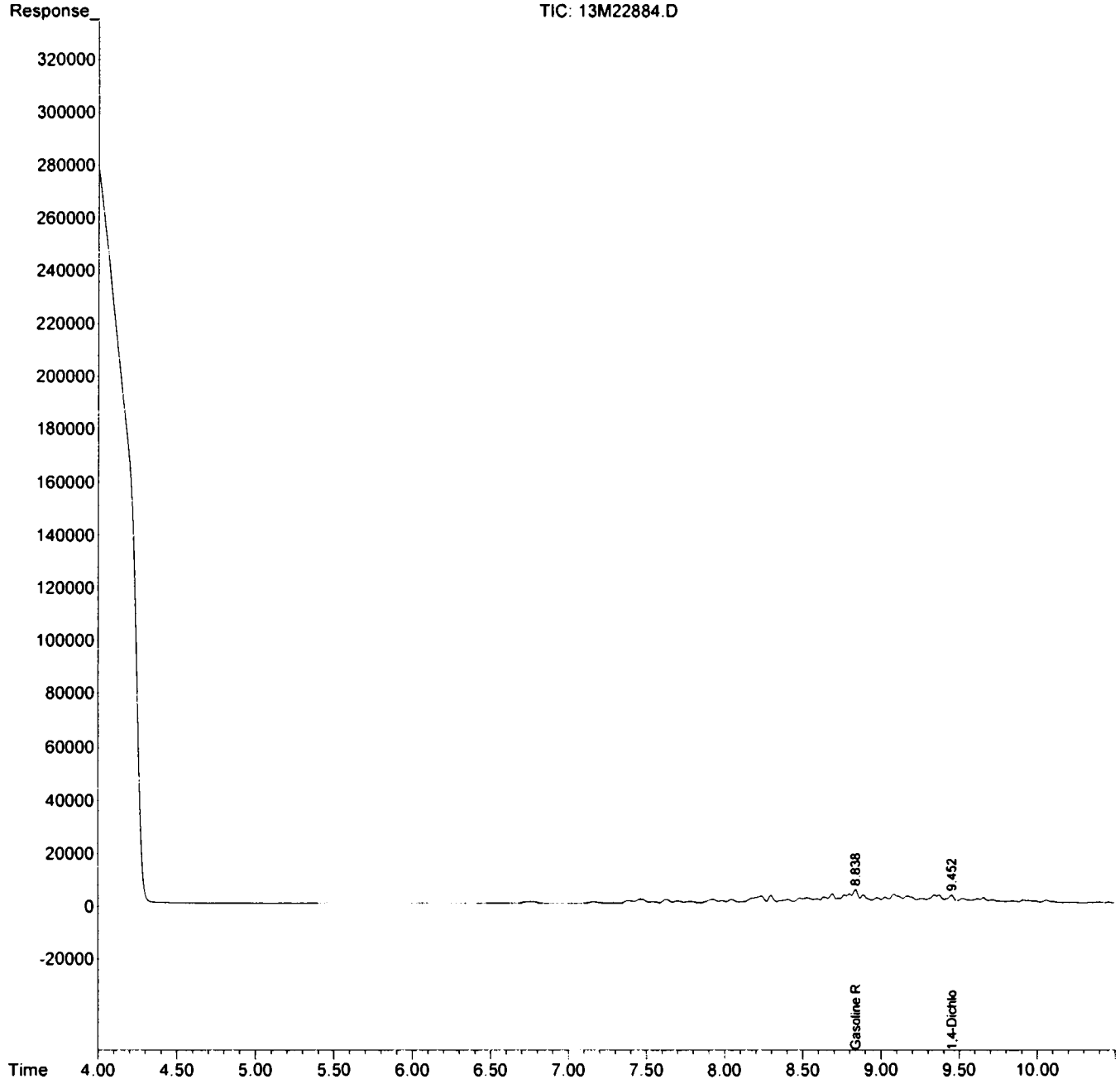
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.452	54458	67.500		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		d
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		d
4)g	Gasoline Range Organics	8.838	2054320	3574.834	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-22-21\
Data File : 13M22884.D
Signal(s) : FID1A.CH
Acq On : 22 Oct 2021 14:29
Operator : JM
Sample : AD26756-001(400UL)
Misc : M,MEXT!2
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 12:27:27 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD26756-002
Client Id: SB-007SS (4-6)
Data File: 13M22883.D
Analysis Date: 10/22/21 14:13
Date Rec/Extracted: 10/20/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.51g:10ml
Final Vol: NA
Dilution: 90.7
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 615440

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-22-21\
Data File : 13M22883.D
Signal(s) : FID1A.CH
Acq On : 22 Oct 2021 14:13
Operator : JM
Sample : AD26756-002
Misc : M,MEXT!2
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 12:27:39 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

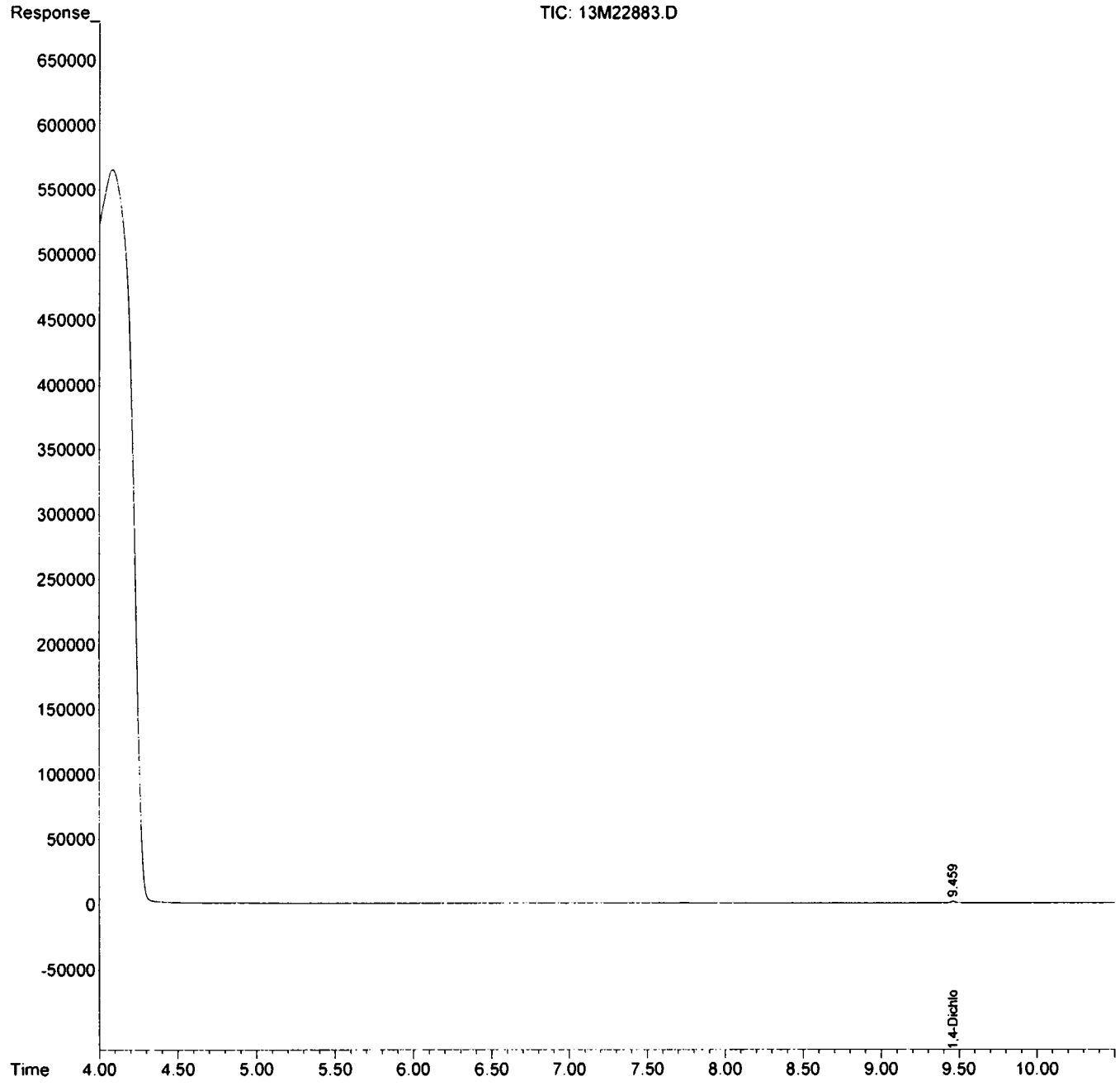
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.461	20797	25.777	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-22-21\
Data File : 13M22883.D
Signal(s) : FID1A.CH
Acq On : 22 Oct 2021 14:13
Operator : JM
Sample : AD26756-002
Misc : M,MEXT!2
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 12:27:39 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M22872.D
Analysis Date: 10/22/21 11:10
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 615440

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\10-22-21\
Data File : 13M22872.D
Signal(s) : FID1A.CH
Acq On : 22 Oct 2021 11:10
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 12:28:01 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

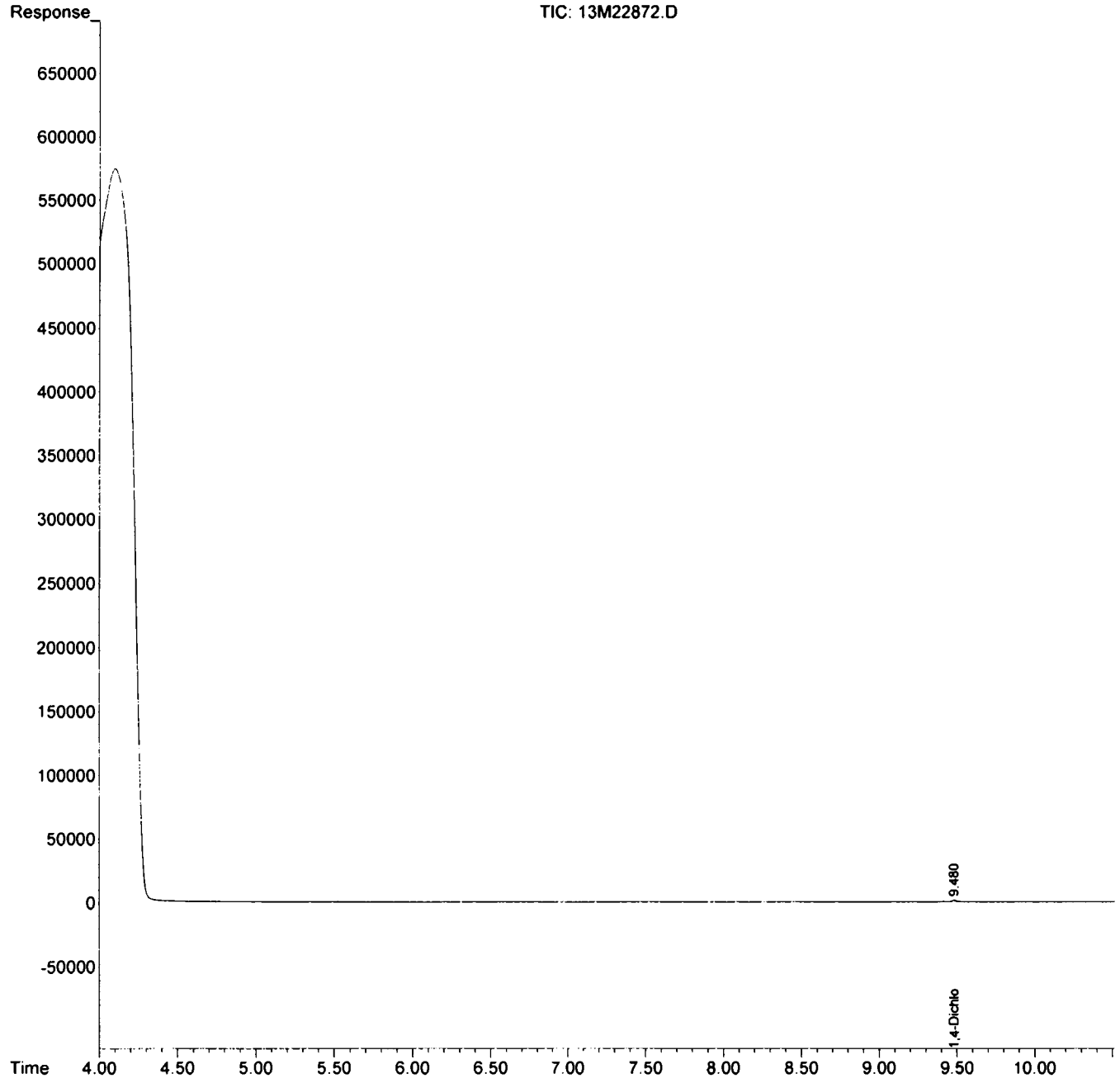
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.481	20658	25.606	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\10-22-21\
Data File : 13M22872.D
Signal(s) : FID1A.CH
Acq On : 22 Oct 2021 11:10
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 12:28:01 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1015.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Oct 15 10:01:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M22872.D	DAILY BLANK	M	10/22/21 11:10	1		85					
13M22884.D	AD26756-001(400UL)	M	10/22/21 14:29	1		225*					
13M22990.D	AD26756-001(400UL)	M	11/01/21 15:57	1		204*					
13M22883.D	AD26756-002	M	10/22/21 14:13	1		86					
13M22873.D	MBS97033	M	10/22/21 11:26	1		111					
13M22875.D	AD26756-002(MS)	M	10/22/21 12:00	1		121					
13M22876.D	AD26756-002(MSD)	M	10/22/21 12:16	1		115					

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS97033

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22873.D	MBS97033	10/22/2021 11:26:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2279.13	0	2000	114	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS97033

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22875.D	AD26756-002(MS)	10/22/2021 12:00:00 P
Non Spike(If applicable):	13M22883.D	AD26756-002	10/22/2021 2:13:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2402.81	0	2000	120	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22876.D	AD26756-002(MSD)	10/22/2021 12:16:00 P
Non Spike(If applicable):	13M22883.D	AD26756-002	10/22/2021 2:13:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2376.26	0	2000	119	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS97033

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M22876.D	AD26756-002(MSD)	10/22/2021 12:16:00 P
Duplicate(If applicable):	13M22875.D	AD26756-002(MS)	10/22/2021 12:00:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2376.26	2402.81	1.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M22872.D
Matrix: Methanol

Blank Analysis Date: 10/22/21 11:10
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD26756-001(400	13M22884.D	10/22/21 14:29
AD26756-002	13M22883.D	10/22/21 14:13
AD26756-002(MSD	13M22876.D	10/22/21 12:16
AD26756-002(MS)	13M22875.D	10/22/21 12:00
MBS97033	13M22873.D	10/22/21 11:26

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22741.D	250PPB	10/14/21 10:47	Aqueous					
13M22746.D	BLK	10/14/21 12:20	Aqueous					
13M22747.D	250PPB	10/14/21 12:37	Aqueous					
13M22750.D	BLK	10/14/21 13:50	Aqueous					
13M22762.D	BLK	10/14/21 17:12	Aqueous					
13M22763.D	BLK	10/14/21 17:28	Aqueous					
13M22764.D	CAL @ 250PPB	10/14/21 17:45	Aqueous	13M2277	9.4618	0.0994		
13M22765.D	CAL @ 500PPB	10/14/21 18:01	Aqueous	13M2277	9.4569	0.0476		
13M22766.D	CAL @ 750PPB	10/14/21 18:18	Aqueous	13M2277	9.4654	0.1374		
13M22767.D	CAL @ 1000PPB	10/14/21 18:34	Aqueous	13M2277	9.4625	0.1068		
13M22768.D	CAL @ 1500PPB	10/14/21 18:51	Aqueous	13M2277	9.4633	0.1152		
13M22769.D	CAL @ 2000PPB	10/14/21 19:07	Aqueous	13M2277	9.4578	0.0571		
13M22770.D	CAL @ 4000PPB	10/14/21 19:24	Aqueous	13M2277	9.4524	0		
13M22771.D	BLK	10/14/21 19:40	Aqueous	13M2277	9.4568	0.0465		
13M22772.D	BLK	10/14/21 19:56	Aqueous	13M2277	9.4565	0.0434		
13M22773.D	ICV	10/14/21 20:13	Aqueous	13M2277	9.4588	0.0677		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M22867.D	CAL @ 2000PPB	10/22/21 09:47	Aqueous	13M2286	9.4918	0		
13M22871.D	DAILY BLANK	10/22/21 10:53	Aqueous	13M2286	9.4860	0.0611		
13M22872.D	DAILY BLANK	10/22/21 11:10	Methanol	13M2286	9.4810	0.1139		
13M22873.D	MBS97033	10/22/21 11:26	Methanol	13M2286	9.4810	0.1139		
13M22874.D	STD	10/22/21 11:43	Aqueous	13M2286	9.4793	0.1318		
13M22875.D	AD26756-002(MS)	10/22/21 12:00	Methanol	13M2286	9.4724	0.2046		
13M22876.D	AD26756-002(MSD)	10/22/21 12:16	Methanol	13M2286	9.4770	0.156		
13M22877.D	MBS97034	10/22/21 12:33	Aqueous	13M2286	9.4851	0.0706		
13M22878.D	BLK	10/22/21 12:49	Aqueous	13M2286	0.0000	200		
13M22879.D	BLK	10/22/21 13:06	Aqueous	13M2286	9.4624	0.3102		
13M22880.D	AD26795-003	10/22/21 13:22	Aqueous	13M2286	9.4643	0.2901		
13M22881.D	BLK	10/22/21 13:39	Aqueous	13M2286	9.4617	0.3176		
13M22882.D	BLK	10/22/21 13:56	Methanol	13M2286	9.4600	0.3356		
13M22883.D	AD26756-002	10/22/21 14:13	Methanol	13M2286	9.4610	0.325		
13M22884.D	AD26756-001(400UL)	10/22/21 14:29	Methanol	13M2286	9.4516	0.4244		
13M22885.D	BLK	10/22/21 14:47	Aqueous	13M2286	9.4576	0.361		
13M22886.D	BLK	10/22/21 15:04	Aqueous	13M2286	9.4559	0.3789		
13M22887.D	AD26795-003(MS)	10/22/21 15:20	Aqueous	13M2286	9.4539	0.4001		
13M22888.D	AD26795-003(MSD)	10/22/21 15:37	Aqueous	13M2286	9.4518	0.4223		
13M22889.D	CAL @ 2000PPB	10/22/21 15:54	Aqueous	13M2286	9.4431	0.5144		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1102001 0190

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M22770.	CAL @ 4000PPB	10/14/21 19:24	2	13M22769.	CAL @ 2000PPB	10/14/21 19:07
3	13M22768.	CAL @ 1500PPB	10/14/21 18:51	4	13M22767.	CAL @ 1000PPB	10/14/21 18:34
5	13M22766.	CAL @ 750PPB	10/14/21 18:18	6	13M22765.	CAL @ 500PPB	10/14/21 18:01
7	13M22764.	CAL @ 250PPB	10/14/21 17:45				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1111	0.0908	0.0815	0.0763	0.0721	0.0678	0.0649	----	0.0807	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000	----	.0000900	5.44	0.998	0.998	19	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0014	0.0014	0.0012	0.0013	0.0012	0.0010	0.0009	----	0.00125	9.27	0.998	0.999	15	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0663	0.0648	0.0559	0.0569	0.0612	0.0496	0.0472	----	0.0575	8.51	0.997	0.998	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 33.15 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M22867.D				13M22889.D									
Method:			8015				8015									
Calibration Name:			CAL @ 2000PPB				CAL @ 2000PPB									
Calibration Date/Time			10/22/21 09:47				10/22/21 15:54									
				Conc				Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	2186	2000	9.3	2220	2000	11.0									

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26756-001	% Solid:	74	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-003SS (6-8.5)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/20/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	6.8	30	1	0.5	50	10/26/21	96486	S27801B3	18	P	PEICP3A
7439-92-1	Lead	6.8	10	1	0.5	50	10/26/21	96486	S27801B3	18	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26756-001	% Solid:	74	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-003SS (6-8.5)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/20/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.27	1.9	1	0.5	100	10/26/21	964872621ANEW		37	MS	MS3_7700SWA
7440-43-9	Cadmium	0.54	ND	1	0.5	100	10/26/21	964872621ANEW		37	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26756-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-007SS (4-6)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/20/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.6	33	1	0.5	50	10/26/21	96486	S27801B3	19	P	PEICP3A
7439-92-1	Lead	5.6	9.3	1	0.5	50	10/26/21	96486	S27801B3	19	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD26756-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-007SS (4-6)	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/20/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.22	1.8	1	0.5	100	10/26/21	964872	621ANEW	38	MS	MS3_7700SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	10/26/21	964872	621ANEW	38	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96486 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96486 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-09-7	Potassium	250	ND	1	0.5	50	10/27/21	96486	S27801A4	16	P	PEICPRAD4A
7440-23-5	Sodium	120	ND	1	0.5	50	10/27/21	96486	S27801A4	16	P	PEICPRAD4A
7440-62-2	Vanadium	5.0	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	10/26/21	96486	S27801A3	12	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96487 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96487 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	10/26/21	96487	2621ANEW	20	MS	S3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/26/21
Data File: S27801A3
Prep Batch: 96486
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-356808-5	Rec	CCV V-356808-15	Rec	CCV V-356808-24	Rec	Rec	Rec	Rec	Rec	Rec
Chromium	.5/.5	0.49262	99	0.48300	97	0.52348	105					
Copper	.5/.5	0.49688	99	0.48902	98	0.53626	107					
Lead	.5/.5	0.50676	101	0.49071	98	0.52980	106					
Nickel	.5/.5	0.50180	100	0.49308	99	0.53205	106					
Zinc	.5/.5	0.51642	103	0.50404	101	0.54457	109					

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 10/26/21
Data File: S27801A3
Prep Batch: 96486
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-356809	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-356810	Recovery	Low Limit	High Limit
Magnesium	5 0	5.07283	101	80	120	500	484.656	97	90	110
Aluminum	2 0	2.02279	101	80	120	500	483.968	97	90	110
Arsenic	0.04	0.0411691	103	80	120	10	10.2165	102	90	110
Boron	0 2	0.180360	90	80	120	5	4.37220	87 a	90	110
Barium	0 1	0 102715	103	80	120	10	10.0900	101	90	110
Beryllium	0 012	0 0134391	112	80	120	5	4.82866	97	90	110
Calcium	10	10 0729	101	80	120	500	480.316	96	90	110
Cadmium	0 012	0 0127097	106	80	120	5	4.94401	99	90	110
Cerium	0 2	0 169	84	80	120	25	26.20	105	90	110
Cobalt	0 025	0 0255244	102	80	120	5	4.71410	94	90	110
Chromium	0 05	0 0453978	91	80	120	10	9.82133	98	90	110
Copper	0 05	0 0513896	103	80	120	10	10.6126	106	90	110
Silver	0 015	0 0158171	105	80	120	1	1.14721	115 a	90	110
Potassium	NA	-18 6075		80	120	200	124.878	62 a	90	110
Zinc	0 1	0.0951652	95	80	120	10	9.68117	97	90	110
Manganese	0 1	0 0993345	99	80	120	10	9.92888	99	90	110
Molybdenum	0 025	0 0248289	99	80	120	10	9.52776	95	90	110
Sodium	NA	2 49582		80	120	1000	1090.89	109	90	110
Nickel	0 05	0 0495367	99	80	120	10	9.30992	93	90	110
Lead	0 05	0 0484349	97	80	120	10	9.84651	98	90	110
Antimony	0 04	0 0407717	102	80	120	5	5.31568	106	90	110
Selenium	0 05	0 0431133	86	80	120	5	4.91448	98	90	110
Silicon	0 2	0 204310	102	80	120	25	25.2893	101	90	110
Tin	0 2	0 205522	103	80	120	10	10.0432	100	90	110
Titanium	0 1	0 0989430	99	80	120	10	10.1676	102	90	110
Thallium	0 05	0 0542138	108	80	120	5	4.98354	100	90	110
Vanadium	0 1	0.0963205	96	80	120	10	9.92002	99	90	110
Iron	2 0	2 00654	100	80	120	400	386 713	97	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/26/21
Data File: S27801B3
Prep Batch: 96486
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-356808-5	Rec	CCV V-356808-12	Rec	CCV V-356808-21	Rec	CCV V-356808-28	Rec	CCV V-356806-39	Rec	CCV V-356808-49	Rec	CCV V-356808-60	Rec	Rec
Aluminum	5/5	4.92939	99	4.60659	92	4.73771	95	4.74518	95	4.84634	97	4.85529	97	4.82976	97	
Barium	.5/.5	0.49064	98	0.45948	92	0.47353	95	0.47241	94	0.48042	96	0.48298	97	0.47859	96	
Calcium	50/50	49.69630	99	46.66220	93	47.09650	94	47.88830	96	48.58830	97	48.90580	98	48.42050	97	
Chromium	.5/.5	0.49299	99	0.46089	92	0.47250	94	0.47226	94	0.47707	95	0.47954	96	0.47637	95	
Cobalt	5/.5	0.48743	97	0.46443	93	0.47651	95	0.47495	95	0.48162	96	0.49282	99	0.47775	96	
Copper	.5/.5	0.49156	98	0.46146	92	0.47532	95	0.47470	95	0.48436	97	0.48708	97	0.48376	97	
Iron	5/5	4.90002	98	4.61644	92	4.77916	96	4.74991	95	4.83704	97	4.87450	97	4.82590	97	
Lead	.5/.5	0.49017	98	0.46532	93	0.47899	96	0.47099	94	0.48047	96	0.48625	97	0.47130	94	
Magnesium	50/50	49.09580	98	46.32390	93	48.31620	97	47.53490	95	48.30390	97	48.90010	98	48.17460	96	
Manganese	.5/.5	0.49085	98	0.46028	92	0.47513	95	0.47265	95	0.48017	96	0.48267	97	0.47795	96	
Nickel	.5/.5	0.48816	98	0.46507	93	0.47797	96	0.47416	95	0.48002	96	0.48897	98	0.47407	95	
Vanadium	5/.5	0.50240	100	0.46681	93	0.47848	96	0.47689	95	0.48051	96	0.48179	96	0.47721	95	
Zinc	.5/.5	0.50299	101	0.47565	95	0.48676	97	0.48050	96	0.48689	97	0.49890	100	0.48079	96	

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 10/26/21
Data File: S27801B3
Prep Batch: 96486
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-356809	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-356810	Recovery	Low Limit	High Limit
Magnesium	5 0	5 02637	101	80	120	500	477 648	96	90	110
Aluminum	2 0	1 95823	98	80	120	500	482 595	97	90	110
Arsenic	0 04	0 0421353	105	80	120	10	10 1926	102	90	110
Boron	0 2	0 146534	73 a	80	120	5	4 73204	95	90	110
Barium	0 1	0 100276	100	80	120	10	10 0067	100	90	110
Beryllium	0 012	0 0106212	89	80	120	5	4 87935	98	90	110
Calcium	10	9 85484	99	80	120	500	469 009	94	90	110
Cadmium	0 012	0 0132685	111	80	120	5	4 93948	99	90	110
Cerium	0 2	0 127	64 a	80	120	25	25 01	100	90	110
Cobalt	0 025	0 0257481	103	80	120	5	4 65148	93	90	110
Chromium	0 05	0 0496087	99	80	120	10	9 76401	98	90	110
Copper	0 05	0 0505224	101	80	120	10	10 5841	106	90	110
Silver	0 015	0 0147597	98	80	120	1	1 13113	113 a	90	110
Potassium	NA	-43 2034		80	120	200	458 777	229 a	90	110
Zinc	0 1	0 101590	102	80	120	10	9 50336	95	90	110
Manganese	0 1	0 0970745	97	80	120	10	9 85522	99	90	110
Molybdenum	0 025	0 0249874	100	80	120	10	9 39035	94	90	110
Sodium	NA	2 58962		80	120	1000	1091 87	109	90	110
Nickel	0 05	0 0495311	99	80	120	10	9 19220	92	90	110
Lead	0 05	0 0511875	102	80	120	10	9 75407	98	90	110
Antimony	0 04	0 0394596	99	80	120	5	5 27603	106	90	110
Selenium	0 05	0 0492615	99	80	120	5	4 93108	99	90	110
Silicon	0 2	0 202958	101	80	120	25	25 1887	101	90	110
Tin	0 2	0 200708	100	80	120	10	9 94836	99	90	110
Titanium	0 1	0 0961936	96	80	120	10	10 0812	101	90	110
Thallium	0 05	0 0559633	112	80	120	5	4 95904	99	90	110
Vanadium	0 1	0 0931100	93	80	120	10	9 93715	99	90	110
Iron	2 0	1 95830	98	80	120	400	382 123	96	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/26/21
Data File: S102621ANEW
Prep Batch: 96487
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360560-9	Rec	CCV V-360564-18	Rec	CCV V-360564-30	Rec	CCV V-360564-42	Rec	CCV V-360564-49	Rec		Rec		Rec
Antimony	50/50	49.25400	99	50.88400	102	50.54100	101	50.50100	101	49.02700	98				
Arsenic	50/50	49.74600	99	50.37100	101	50.23700	100	49.69100	99	49.68300	99				
Beryllium	50/50	48.99400	98	51.21900	102	49.75000	100	49.63600	99	48.43800	97				
Cadmium	50/50	48.44000	97	50.22200	100	49.31100	99	49.36300	99	47.91600	96				
Selenium	50/250	49.85400	100	253.20200	101	252.29800	101	250.74400	100	245.00600	98				
Silver	10/50	9.65600	97	51.36000	103	49.79200	100	50.83100	102	49.68200	99				
Thallium	50/50	46.87900	94	51.24700	102	50.79600	102	50.25900	101	49.60000	99				
Vanadium	50/50	48.46600	97	50.38600	101	50.18900	100	49.81800	100	50.22900	100				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 10/26/21
Data File: S102621ANEW
Prep Batch: 96487
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360565	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360563	Recovery	Low Limit	High Limit
Magnesium	500	487.305	97	80	120	50000	49911.395	100	90	110
Aluminum	500	486.542	97	80	120	15000	14940.382	100	90	110
Arsenic	1	0.924	92	80	120	500	502.858	101	90	110
Barium	5	4.652	93	80	120	500	491.706	98	90	110
Beryllium	1	0.989	99	80	120	500	490.783	98	90	110
Calcium	500	477.748	96	80	120	50000	50841.300	102	90	110
Cadmium	2	1.918	96	80	120	500	490.399	98	90	110
Cobalt	2	1.919	96	80	120	500	487.268	97	90	110
Chromium	2	1.869	93	80	120	500	490.314	98	90	110
Copper	10	9.267	93	80	120	500	482.252	96	90	110
Silver	1	0.941	94	80	120	500	177.431	35a	90	110
Potassium	500	488.789	98	80	120	50000	50466.437	101	90	110
Zinc	20	18.951	95	80	120	500	481.658	96	90	110
Manganese	6	5.360	89	80	120	500	499.358	100	90	110
Molybdenum	1	0.996	100	80	120	500	501.220	100	90	110
Sodium	500	439.488	88	80	120	50000	50639.022	101	90	110
Nickel	3	2.917	97	80	120	500	490.694	98	90	110
Lead	2	1.781	89	80	120	500	478.515	96	90	110
Antimony	4	3.679	92	80	120	500	492.888	99	90	110
Selenium	10	9.860	99	80	120	2500	2476.511	99	90	110
Thallium	2	1.894	95	80	120	500	473.272	95	90	110
Vanadium	1	0.934	93	80	120	500	502.045	100	90	110
Iron	500	489.300	98	80	120	50000	49965.408	100	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/26/21
Data File: S27801A3
Prep Batch: 96486
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-352951-6	CCB V-352951-16	CCB V-352951-25	MB 96486 (100)-12
Chromium	.025 U	.05 U	.05 U	2.5 U
Copper	.025 U	.05 U	.05 U	2.5 U
Lead	.025 U	.05 U	.05 U	2.5 U
Nickel	.025 U	.05 U	.05 U	2.5 U
Zinc	.05 U	.1 U	.1 U	5 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/26/21
Data File: S27801B3
Prep Batch: 96486
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-352951-6	CCB V-352951-13	CCB V-352951-22	CCB V-352951-29	CCB V-352951-40	CCB V-352951-50	CCB V-352951-61
Aluminum	1 U	2 U	2 U	2 U	2 U	2U	2U
Barium	.05 U	.1 U	.1 U	.1 U	.1 U	.1U	.1U
Calcium	5 U	10 U	10 U	10 U	10 U	10U	10U
Chromium	.025 U	.05 U	.05 U	.05 U	.05 U	.05U	.05U
Cobalt	.0125 U	.025 U	.025 U	.025 U	.025 U	.025U	.025U
Copper	.025 U	.05 U	.05 U	.05 U	.05 U	.05U	.05U
Iron	1 U	2 U	2 U	2 U	2 U	2U	2U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	.05U	.05U
Magnesium	2.5 U	5 U	5 U	5 U	5 U	5U	5U
Manganese	.05 U	.1 U	.1 U	.1 U	.1 U	.1U	.1U
Nickel	.025 U	.05 U	.05 U	.05 U	.05 U	.05U	.05U
Vanadium	.05 U	.1 U	.1 U	.1 U	.1 U	.1U	.1U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	.1U	.1U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/26/21
Data File: S102621ANEW
Prep Batch: 96487
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360561-11	CCB V-360561-19	CCB V-360561-31	CCB V-360561-43	CCB V-360561-50	MB 96487-20
Antimony	2U	4U	4U	4U	4U	400U
Arsenic	.5U	1U	1U	1U	1U	100U
Beryllium	.5U	1U	1U	1U	1U	100U
Cadmium	1U	2U	2U	2U	2U	200U
Selenium	5U	10U	10U	10U	10U	1000U
Silver	.5U	1U	1U	1U	1U	100U
Thallium	1U	2U	2U	2U	2U	200U
Vanadium	.5U	1U	1U	1U	1U	100U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/26/21
Data File: S27801A3
Prep Batch: 96486
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-352957-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	515.895	103							
Calcium	500	503.144	101							
Chromium	0	U								
Copper	0	U								
Iron	200	199.65	100							
Lead	0	U								
Magnesium	500	508.488	102							
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/26/21
Data File: S27801B3
Prep Batch: 96486
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-352957-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	489.45€	98							
Barium	0	U								
Calcium	500	469.15€	94							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	189.46€	95							
Lead	0	U								
Magnesium	500	480.66€	96							
Manganese	0	U								
Nickel	0	U								
Vanadium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/26/21
Data File: S102621ANEW
Prep Batch: 96487
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1102001

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360562-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	50179.25	100							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	154051.6	103							
Iron	125000	125526.9	100							
Magnesium	50000	50453.24	101							
Selenium	0	U								
Silver	0	U								
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96486

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96486

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96486	1	S27801A3	14	0.6604	.734	90		67	125
Lead	96486	1	S27801A3	14	1.7065	1.86	92		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96486

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96486	1	S27801A3	13	0.6252	.734	85		67	125
Lead	96486	1	S27801A3	13	1.6988	1.86	91		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96486	1	S27801A3	20	S27801A3	17	0.6057	0.0779	0.5	106		75	125
Lead	96486	1	S27801A3	20	S27801A3	17	0.6579	0.1365	0.5	104		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96486	1	S27801A3	19	S27801A3	17	0.6127	0.0779	0.5	107		75	125
Lead	96486	1	S27801A3	19	S27801A3	17	0.6407	0.1365	0.5	101		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96486

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD26849-004

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S27801A3	21	S27801A3	17	0.6023	0.0779	0.50	105		75	125
Lead	1	S27801A3	21	S27801A3	17	0.6583	0.1365	0.50	104		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96487

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96487

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96487	1	S102621A	22	215.2270	225	96		65	121
Cadmium	96487	1	S102621A	22	243.3750	249	98		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96487

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96487	1	S102621A	21	214.1130	225	95		65	121
Cadmium	96487	1	S102621A	21	245.5020	249	99		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96487	1	S102621A	27	S102621A	23	250.0800	11.0900	250	96		75	125
Cadmium	96487	1	S102621A	27	S102621A	23	230.4630	2U	250	92		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96487	1	S102621A	26	S102621A	23	248.5350	11.0900	250	95		75	125
Cadmium	96487	1	S102621A	26	S102621A	23	235.7180	2U	250	94		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96487

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD26849-004

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S102621A	28	S102621A	23	60.4810	11.0900	50	99		75	125
Cadmium	1	S102621A	28	S102621A	23	49.7080	2U	50	99		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96486

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96486

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96486	S27801A3	14	S27801A3	13	0.6604	0.6252	5.5	20
Lead	96486	S27801A3	14	S27801A3	13	1.7065	1.6988	.45	20

TxtQcType: MR Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96486	S27801A3	18	S27801A3	17	0.0779	0.0779	0.078	20
Lead	96486	S27801A3	18	S27801A3	17	0.1258	0.1365	8.2	20

TxtQcType: MSD Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96486	S27801A3	20	S27801A3	19	0.6057	0.6127	1.1	20
Lead	96486	S27801A3	20	S27801A3	19	0.6579	0.6407	2.6	20

TxtQcType: SD Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	96486	S27801A3	22	S27801A3	17	5	0.0090	0.0779	42	a	10
Lead	96486	S27801A3	22	S27801A3	17	5	0.0263	0.1365	3.7		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96487

Instrument Type: ICPMS

Analytical Method(s): 6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96487

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96487	S102621A	22	S102621A	21	215.2270	214.1130	.52	20
Cadmium	96487	S102621A	22	S102621A	21	243.3750	245.5020	.87	20

TxtQcType: MR Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96487	S102621A	24	S102621A	23	10.5480	11.0900	5	20
Cadmium	96487	S102621A	24	S102621A	23	2U	2U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96487	S102621A	27	S102621A	26	250.0800	248.5350	.62	20
Cadmium	96487	S102621A	27	S102621A	26	230.4630	235.7180	2.3	20

TxtQcType: SD Matrix: SOIL SampleID: AD26849-004

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	96487	S102621A	25	S102621A	23	5	2.2190	11.0900	0.045		20
Cadmium	96487	S102621A	25	S102621A	23	5	0.0930	0.3960	17	c	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

ICPMS Internal Standard Summary Report 1102001 0217

TuneID: 1

Batch/FileID: S102621AN Sample ID: CalBlk V-360554 Sample Date 10/26/21 Sample Time: 11:07

IS ID:	Area	Area Limit		
Ho-1	3218203.46	2252742.422	-	4183664.498
In-1	2762034.75	1933424.325	-	3590645.175
Sc-1	1821553.48	1275087.436	-	2368019.524
Tb-1	3452037.62	2416426.334	-	4487648.906

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-360554	3	3218203.	2762034.	1821553.	3452037.				
SMP	RINSE	1	3156233.	2723217.	1779643.	3349284.				
SMP	RINSE	2	3205121.	2766712.	1798365.	3402518.				
CAL	CalStd1 V-36055	4	3236133.	2761101.	1800099.	3491977.				
CAL	CalStd2 V-36055	5	3262413.	2773770.	1821520.	3474752.				
CAL	CalStd3 V-36055	6	3276928.	2811535.	1824941.	3502000.				
CAL	CalStd4 V-36055	7	3310071.	2777714.	1838887.	3503014.				
CAL	CalStd5 V-36055	8	3322323.	2773165.	1831900.	3490034.				
ICV	ICV V-360560	9	3318392.	2785740.	1814774.	3512472.				
LLICV	LLICV V-360565	10	3292281.	2782043.	1822282.	3513674.				
ICB	ICB V-360561	11	3280537.	2770236.	1820385.	3493998.				
ICSA	ICSA V-360562	12	3298274.	2643888.	1778901.	3524920.				
SMP	RINSE	13	3270181.	2758411.	1784705.	3466238.				
LRS	LRS V-360563	14	3314170.	2724339.	1817377.	3519252.				
SMP	RINSE	15	3268981.	2759219.	1785777.	3464746.				
SMP	RINSE	16	3235161.	2723387.	1774925.	3443323.				
SMP	RINSE	17	3204383.	2705129.	1749855.	3380186.				
CCV	CCV V-360564	18	3315977.	2743409.	1820813.	3530758.				
CCB	CCB V-360561	19	3258213.	2778983.	1805908.	3451203.				
MB	MB 96487	20	3255140.	2744982.	1794044.	3471686.				
LCS	LCS 96487	21	3327693.	2775388.	1924817.	3526124.				
MR	LCS MR 96487	22	3361295.	2814923.	1963266.	3547068.				
SMP	AD26849-004	23	3300765.	2656787.	2178391.	3507145.				
MR	AD26849-004	24	3351614.	2715754.	2212419.	3544604.				
SD	AD26849-004	25	3276371.	2756887.	1872267.	3483540.				
MS	AD26849-004	26	3319406.	2743105.	2232127.	3534645.				
MSD	AD26849-004	27	3324899.	2719890.	2185986.	3525469.				
PS	AD26849-004	28	3328668.	2663511.	2163261.	3503948.				
SMP	RINSE	29	3276225.	2758556.	1787244.	3473326.				
CCV	CCV V-360564	30	3322202.	2779325.	1817868.	3514162.				
CCB	CCB V-360561	31	3313289.	2799046.	1827792.	3538905.				
SMP	AD26848-002	32	3359349.	2671782.	2258554.	3527532.				
SMP	AD26848-004	33	3395450.	2714697.	2248243.	3582671.				
SMP	AD26848-006	34	3393059.	2752495.	2288157.	3591009.				
SMP	AD26849-002	35	3372557.	2712431.	2228133.	3560979.				
SMP	AD26849-006	36	3461941.	2782564.	2345801.	3674287.				
SMP	AD26756-001	37	3936624.	2815184.	2729700. *	4246476.				
SMP	AD26756-002	38	4116278.	2780490.	2853134. *	4442575.				
SMP	AD26835-001	39	3471042.	2858943.	2338987.	3692432.				
SMP	AD26835-002	40	3490713.	2840472.	2344169.	3728390.				
SMP	RINSE	41	3296365.	2818525.	1814543.	3518261.				
CCV	CCV V-360564	42	3384997.	2870214.	1868848.	3605124.				
CCB	CCB V-360561	43	3339110.	2857810.	1841998.	3535771.				
SMP	AD26861-002	44	3426784.	2862840.	2278302.	3634434.				
SMP	AD26870-001	45	3473240.	2845838.	2207871.	3685326.				
SMP	AD26817-001	46	3342728.	2661645.	2136844.	3497118.				
SMP	AD26876-001	47	3584584.	2976591.	2633791. *	3835832.				
SMP	RINSE	48	3466463.	2963986.	1928295.	3669243.				

* Indicates Internal Standard Area outside of limits

TuneID: 1

CCV	CCV V-360564	49	3493358.	2960705.	1952015.	3742427.
CCB	CCB V-360561	50	3465548.	2931952.	1910763.	3687060.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

1102001 0219

TuneID: 2

Batch/FileID: S102621AN Sample ID: CalBlk V-360554 Sample Date 10/26/21 Sample Time: 11:07

IS ID:	Area	Area Limit		
Ho-2	2084534.28	1459173.996	-	2709894.564
In-2	735215.59	514650.913	-	955780.267
Sc-2	89287.31	62501.117	-	116073.503
Tb-2	2134240.70	1493968.49	-	2774512.91

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-360554	3	2084534.	735215.5	89287.31	2134240.				
SMP	RINSE	1	2097717.	754080.1	91368.78	2150929.				
SMP	RINSE	2	2111316.	749548.5	91945.18	2159961.				
CAL	CalStd1 V-36055	4	2104307.	736994.2	88740.35	2160890.				
CAL	CalStd2 V-36055	5	2093435.	744939.7	89147.51	2152521.				
CAL	CalStd3 V-36055	6	2098461.	746469.1	89875.20	2140489.				
CAL	CalStd4 V-36055	7	2101948.	745388.8	89375.26	2143739.				
CAL	CalStd5 V-36055	8	2090742.	725895.1	87602.22	2130777.				
ICV	ICV V-360560	9	2088139.	733806.1	88768.89	2145658.				
LLICV	LLICV V-360565	10	2146819.	742276.7	89474.46	2195445.				
ICB	ICB V-360561	11	2112782.	743633.0	88131.64	2160759.				
ICSA	ICSA V-360562	12	2067262.	678999.2	85378.50	2113528.				
SMP	RINSE	13	2085224.	743322.4	87260.05	2134510.				
LRS	LRS V-360563	14	2069612.	703873.2	87967.95	2117608.				
SMP	RINSE	15	2083020.	746167.6	88483.27	2142935.				
SMP	RINSE	16	2111159.	743056.6	88521.27	2140068.				
SMP	RINSE	17	2100056.	744293.8	89272.60	2151703.				
CCV	CCV V-360564	18	2089621.	731702.0	88676.40	2142399.				
CCB	CCB V-360561	19	2115151.	740990.4	88119.85	2143493.				
MB	MB 96487	20	2093346.	741569.2	89658.53	2147325.				
LCS	LCS 96487	21	2084912.	730489.0	94267.99	2150921.				
MR	LCS MR 96487	22	2111821.	729411.9	93375.39	2140052.				
SMP	AD26849-004	23	2099833.	693724.7	105817.8	2144824.				
MR	AD26849-004	24	2112238.	707432.6	106637.5	2155281.				
SD	AD26849-004	25	2129136.	739585.0	92091.95	2186872.				
MS	AD26849-004	26	2092501.	692188.8	107083.3	2134183.				
MSD	AD26849-004	27	2062270.	690267.1	104711.7	2106407.				
PS	AD26849-004	28	2081445.	686948.4	104532.8	2127595.				
SMP	RINSE	29	2099584.	741786.9	87926.04	2147438.				
CCV	CCV V-360564	30	2105606.	731729.6	87978.01	2159797.				
CCB	CCB V-360561	31	2120767.	742520.3	88350.69	2173967.				
SMP	AD26848-002	32	2092666.	685431.1	108890.4	2135226.				
SMP	AD26848-004	33	2123379.	699380.8	109316.2	2151260.				
SMP	AD26848-006	34	2139959.	710678.0	110427.4	2177944.				
SMP	AD26849-002	35	2111066.	696946.8	106839.1	2147188.				
SMP	AD26849-006	36	2167930.	720746.4	113711.0	2200000.				
SMP	AD26756-001	37	2513696.	720943.8	132934.1 *	2570233.				
SMP	AD26756-002	38	2651189.	717632.1	143458.8 *	2746436.				
SMP	AD26835-001	39	2197585.	743316.0	115533.6	2241196.				
SMP	AD26835-002	40	2168980.	734453.1	114550.0	2225160.				
SMP	RINSE	41	2113495.	752571.7	88889.15	2179710.				
CCV	CCV V-360564	42	2144294.	757222.1	91546.66	2187340.				
CCB	CCB V-360561	43	2126050.	752724.5	90154.16	2161949.				
SMP	AD26861-002	44	2165498.	744616.8	111312.1	2228662.				
SMP	AD26870-001	45	2216821.	740809.6	108506.1	2244470.				
SMP	AD26817-001	46	2047479.	666293.6	95929.47	2081946.				
SMP	AD26876-001	47	2204858.	751673.1	127438.7 *	2245649.				
SMP	RINSE	48	2193240.	781509.1	93118.24	2253014.				

* Indicates Internal Standard Area outside of limits

TuneID: 2

CCV	CCV V-360564	49	2171450.	761765.2	91520.93	2227798.
CCB	CCB V-360561	50	2171138.	759884.1	90473.91	2221454.

* Indicates Internal Standard Area outside of limits

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27801A3.txt

Analysis Date: 10/26/21 **Instrument:** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-352951	1	CAL	11:30	1							V-352951(ICB/CCB)
CALST2 V-356809	1	CAL	11:34	2							V-356809(LLICV/LLCCV soil)
CALST3 V-356806	1	CAL	11:38	3							V-356806(ICS3 - Middle Std)
CALST4 V-356807	1	CAL	11:41	4							V-356807(ICS4 High std)
ICV V-356808	1	ICV	11:44	5							V-356808(CCV)
ICB V-352951	1	ICB	11:47	6							V-352951(ICB/CCB)
LRS V-356810	1	LRS	11:51	7		SOIL	SOIL	SW846	96486		V-356810(LRS)
ICS3 V-356806	1	ICS	11:55	8							V-356806(ICS3 - Middle Std)
RINSE	1	NA	11:59	9		SOIL	SOIL	SW846	96486		0
LLICV V-356809	1	LLICV	12:02	10		SOIL	SOIL	SW846	96486		V-356809(LLICV/LLCCV soil)
ICSA V-352957	1	ICSA	12:06	11							V-352957(ICSA)
MB 96486 (100)	1	MB	12:10	12		SOIL	SOIL	SW846	96486		0
LCS 96486	1	LCS	12:14	13		SOIL	SOIL	SW846	96486		0
LCS MR 96486	1	LCS	12:18	14		SOIL	SOIL	SW846	96486		0
CCV V-356808	1	CCV	12:22	15							V-356808(CCV)
CCB V-352951	1	CCB	12:25	16							V-352951(ICB/CCB)
AD26849-004	1	SMP	12:29	17	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26849-004	1	MR	12:33	18	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26849-004	1	MS	12:37	19	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26849-004	1	MSD	12:41	20	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26849-004	1	PS	12:45	21	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26849-004	5	SD	12:50	22	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26848-002	1	SMP	12:53	23	MET-PP6010S	SOIL	SOIL	SW846	96486		0
CCV V-356808	1	CCV	12:57	24							V-356808(CCV)
CCB V-352951	1	CCB	13:01	25							V-352951(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 10/26/2021 2:07:16 PM

Run is Ok All elements reported except Na,K

11/1/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27801B3.txt

Analysis Date: 10/26/21 **Instrument:** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-352951	1	CAL	13:38	1							V-352951(ICB/CCB)
CALST2 V-356809	1	CAL	13:42	2							V-356809(LLICV/LLCCV soil)
CALST3 V-356806	1	CAL	13:46	3							V-356806(ICS3 - Middle Std)
CALST4 V-356807	1	CAL	13:49	4							V-356807(ICS4 High std)
ICV V-356808	1	ICV	13:52	5							V-356808(CCV)
ICB V-352951	1	ICB	13:55	6							V-352951(ICB/CCB)
LRS V-356810	1	LRS	13:59	7		SOIL	SOIL	SW846	96486		V-356810(LRS)
ICS3 V-356806	1	ICS	14:04	8							V-356806(ICS3 - Middle Std)
RINSE	1	NA	14:07	9		SOIL	SOIL	SW846	96486		0
LLICV V-356809	1	LLICV	14:11	10		SOIL	SOIL	SW846	96486		V-356809(LLICV/LLCCV soil)
ICSA V-352957	1	ICSA	14:14	11							V-352957(ICSA)
CCV V-356808	1	CCV	14:19	12							V-356808(CCV)
CCB V-352951	1	CCB	14:22	13							V-352951(ICB/CCB)
AD26848-004	1	SMP	14:25	14	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26848-006	1	SMP	14:29	15	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26849-002	1	SMP	14:32	16	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26849-006	1	SMP	14:35	17	MET-PP6010S	SOIL	SOIL	SW846	96486		0
AD26756-001	1	SMP	14:39	18	MET-RCRA-S	SOIL	SOIL	SW846	96486		0
AD26756-002	1	SMP	14:43	19	MET-RCRA-S	SOIL	SOIL	SW846	96486		0
AD26835-001	1	SMP	14:47	20	MET-TAL6010S	SOIL	SOIL	SW846	96486		0
CCV V-356808	1	CCV	14:52	21							V-356808(CCV)
CCB V-352951	1	CCB	14:55	22							V-352951(ICB/CCB)
AD26835-002	1	SMP	14:59	23	MET-TAL6010S	SOIL	SOIL	SW846	96486		0
AD26861-002	1	SMP	15:03	24	MET-TAL6010S	SOIL	SOIL	SW846	96486		0
AD26870-001	1	SMP	15:05	25	MET-TAL6010S	SOIL	SOIL	SW846	96486		0
AD26817-001	1	SMP	15:09	26	MET-TAL6010S	SOIL	SOIL	SW846	96486	Ca>LRS not reported	0
AD26876-001	1	SMP	15:13	27	MET-TAL6010S	SOIL	SOIL	SW846	96486		0
CCV V-356808	1	CCV	15:17	28							V-356808(CCV)
CCB V-352951	1	CCB	15:20	29							V-352951(ICB/CCB)
MB 96483 (100)	1	MB	15:24	30		SOIL	SOIL	SW846	96483		0
LCS 96483	1	LCS	15:27	31		SOIL	SOIL	SW846	96483		0
LCS MR 96483	1	LCS	15:31	32		SOIL	SOIL	SW846	96483		0
AD26841-002	1	SMP	15:36	33	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26841-002	1	MR	15:39	34	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26841-002	1	MS	15:42	35	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26841-002	1	MSD	15:46	36	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26841-002	1	PS	15:50	37	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26841-002	5	SD	15:54	38	MET-PP6010S	SOIL	SOIL	SW846	96483		0
CCV V-356808	1	CCV	15:58	39							V-356808(CCV)
CCB V-352951	1	CCB	16:01	40							V-352951(ICB/CCB)
AD26841-004	1	SMP	16:04	41	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26841-006	1	SMP	16:08	42	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26842-002	1	SMP	16:12	43	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26842-004	1	SMP	16:16	44	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26842-006	1	SMP	16:20	45	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26843-002	1	SMP	16:24	46	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26843-004	1	SMP	16:28	47	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26843-006	1	SMP	16:32	48	MET-PP6010S	SOIL	SOIL	SW846	96483		0
CCV V-356808	1	CCV	16:36	49							V-356808(CCV)
CCB V-352951	1	CCB	16:39	50							V-352951(ICB/CCB)
AD26844-002	1	SMP	16:42	51	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26844-004	1	SMP	16:46	52	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26844-006	1	SMP	16:50	53	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26846-002	1	SMP	16:54	54	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26846-004	1	SMP	16:58	55	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26846-006	1	SMP	17:02	56	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26847-002	1	SMP	17:07	57	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26847-004	1	SMP	17:11	58	MET-PP6010S	SOIL	SOIL	SW846	96483		0
AD26847-006	1	SMP	17:15	59	MET-PP6010S	SOIL	SOIL	SW846	96483		0
CCV V-356808	1	CCV	17:19	60							V-356808(CCV)

Comments/Reviewedby:

dlucca
192 168 1.105 10/27/2021 6:49 22 AM

Run is OK All elements reported except Na,K

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

11/2/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27801B3.txt

Analysis Date: 10/26/21 **Instrument:** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CCB V-352951	1	CCB	17:22	61							V-352951(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 10/27/2021 6:49:22 AM

Run is OK All elements reported except Na,K

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

11/2/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S102621ANEW.txt

Analysis Date: 10/26/21 **Instrument:** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	10:58	1		SOIL	SOIL	SW846	96487		()
RINSE	1	NA	11:02	2		SOIL	SOIL	SW846	96487		()
CalBlk V-360554	1	ISBLK	11:07	3		SOIL	SOIL				V-360554(Cal Blk WARNING)
CalStd1 V-360555	1	CAL	11:11	4							V-360555(Cal Std-1 WARNING)
CalStd2 V-360556	1	CAL	11:16	5							V-360556(Cal Std-2 WARNING)
CalStd3 V-360557	1	CAL	11:20	6							V-360557(Cal Std-3 WARNING)
CalStd4 V-360558	1	CAL	11:25	7							V-360558(Cal Std-4 WARNING)
CalStd5 V-360559	1	CAL	11:29	8							V-360559(Cal Std-5 WARNING)
ICV V-360560	1	ICV	11:33	9							V-360560(ICV WARNING)
LLICV V-360565	1	LLICV	11:38	10		SOIL	SOIL	SW846	96487		V-360565(LL-ICV/CCV SOIL WARNING)
ICB V-360561	1	ICB	11:42	11							V-360561(ICB/CCB WARNING)
ICSA V-360562	1	ICSA	11:47	12							V-360562(ICSA WARNING)
RINSE	1	NA	11:51	13		SOIL	SOIL	SW846	96487		()
LRS V-360563	1	LRS	11:56	14		SOIL	SOIL	SW846	96487	Ag fail.	V-360563(LRS WARNING)
RINSE	1	NA	12:00	15		SOIL	SOIL	SW846	96487		()
RINSE	1	NA	12:04	16		SOIL	SOIL	SW846	96487		()
RINSE	1	NA	12:14	17		SOIL	SOIL	SW846	96487		()
CCV V-360564	1	CCV	12:18	18							V-360564(CCV WARNING)
CCB V-360561	1	CCB	12:28	19							V-360561(ICB/CCB WARNING)
MB 96487	1	MB	12:32	20		SOIL	SOIL	SW846	96487		()
LCS 96487	1	LCS	12:37	21		SOIL	SOIL	SW846	96487		()
LCS MR 96487	1	LCS	12:41	22		SOIL	SOIL	SW846	96487		()
AD26849-004	1	SMP	12:45	23	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26849-004	1	MR	12:49	24	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26849-004	5	SD	12:54	25	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26849-004	1	MS	12:58	26	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26849-004	1	MSD	13:02	27	MET-PP6020S	SOIL	SOIL	SW846	96487		0
AD26849-004	1	PS	13:06	28	MET-PP6020S	SOIL	SOIL	SW846	96487		()
RINSE	1	NA	13:11	29		SOIL	SOIL	SW846	96487		()
CCV V-360564	1	CCV	13:15	30							V-360564(CCV WARNING)
CCB V-360561	1	CCB	13:19	31							V-360561(ICB/CCB WARNING)
AD26848-002	1	SMP	13:24	32	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26848-004	1	SMP	13:28	33	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26848-006	1	SMP	13:33	34	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26849-002	1	SMP	13:37	35	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26849-006	1	SMP	13:41	36	MET-PP6020S	SOIL	SOIL	SW846	96487		()
AD26756-001	1	SMP	13:46	37	MET-RCRA-MS	SOIL	SOIL	SW846	96487		()
AD26756-002	1	SMP	13:50	38	MET-RCRA-MS	SOIL	SOIL	SW846	96487		()
AD26835-001	1	SMP	13:54	39	MET-TAL6020S	SOIL	SOIL	SW846	96487		()
AD26835-002	1	SMP	13:59	40	MET-TAL6020S	SOIL	SOIL	SW846	96487		()
RINSE	1	NA	14:03	41		SOIL	SOIL	SW846	96487		()
CCV V-360564	1	CCV	14:08	42							V-360564(CCV WARNING)
CCB V-360561	1	CCB	14:12	43							V-360561(ICB/CCB WARNING)
AD26861-002	1	SMP	14:16	44	MET-TAL6020S	SOIL	SOIL	SW846	96487		()
AD26870-001	1	SMP	14:21	45	MET-TAL6020S	SOIL	SOIL	SW846	96487		()
AD26817-001	1	SMP	14:25	46	MET-TAL6020S	SOIL	SOIL	SW846	96487		()
AD26876-001	1	SMP	14:30	47	MET-TAL6020S	SOIL	SOIL	SW846	96487		()
RINSE	1	NA	14:34	48		SOIL	SOIL	SW846	96487		()
CCV V-360564	1	CCV	14:38	49							V-360564(CCV WARNING)
CCB V-360561	1	CCB	14:43	50							V-360561(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 10/27/2021 10:19:53 AM

Run ok. Report Ag, As, Be, Cd, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 2x 10/28/21

Standard/Batch/SnCl2 Lot #:

10/28/21

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 27801 Analyst: ANS

QC Number: 96486 Prep Date: 10/26/21

Matrix: soil Reviewed By: DL

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	5ml	50ml				--	
LCS	0.5g					--	
LCSD						--	
1. AD 26849-004							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -004							
MR -004							
MS -004							Balance used: 039
MSD -004							Pipettes used: 153, 149
2. 26848-002							
3. -004							Hot Block used: 5
4. -006							
5. 26849-002							
6. -006							
7. 26756-001							
8. -002							
9. 26835-001							
10. -002							
11. 26861-002							
12. 26870-001							
13. 26817-001							
14. 26876-001							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 92.3 C (90-95° C) Start Time: 8:00am End Time: 11:00am

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 14201
LLCS, LLLCSD		V-
MS, MSD	0.25g	V-13729,13730
LLMS, LLMSD		V- 358096

Acid	Vol mL	Lot#
HNO_3	2.5	V-14216
HCl	5.0	V-14217
H_2O_2	1.5	V-14181

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By ANS Date 10/26/21

Received By DL Date 11/1/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 27802 Analyst: ANS

QC Number: 96487 Prep Date: 10/26/21

Matrix: Soil 6020 Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		--	
LCS	0.1g					--	
LCSD	"					--	
1. A026849-004	0.5g						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate	"						
MR -004							
MS -004							Balance used: 039
MSD -004							Pipettes used: 153, 146
2. 26848-002							
3. -004							Hot Block used: 4
4. -006							
5. 26849-002							
6. -006							
7. 26756-001							
8. -002							
9. 26835-001							
10. -002							
11. 26861-001							
12. 26870-001							
13. 26817-001							
14. 26876-001							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.5 C (90-95° C) Start Time: 8:00 am End Time: 11:30 am

	Volume mL	Lot #
LCS, LCSD	0.1g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 13729, 13730
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-14216
HCl	1.0	V-14217
H_2O_2	1-5	V-14181

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By ANS Date 10/26/21

Received By [illegible] Date 10/26/21

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1102001**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD26756-001	SB-003SS (6-8.5)	Soil/Terracore	1	74	Percent			10/21/21	10/20/21	10/19/21
AD26756-002	SB-007SS (4-6)	Soil/Terracore	1	89	Percent			10/21/21	10/20/21	10/19/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12425

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD26604-006	86	85.86031	Percent	1.27	7.14	6.31	10/21/21	jessica	0.026	5
Sample	AD26604-006	86	85.88235	Percent	1.27	9.77	8.57	10/21/21	jessica		
Sample	AD26756-001	74	73.95105	Percent	1.26	18.42	13.95	10/21/21	jessica		
Sample	AD26756-002	89	89.11150	Percent	1.29	12.77	11.52	10/21/21	jessica		
Sample	AD26770-003	75	75.10331	Percent	1.27	20.63	15.82	10/21/21	jessica		
Sample	AD26772-007	86	85.53326	Percent	1.30	10.77	9.40	10/21/21	jessica		
Sample	AD26772-008	86	85.67230	Percent	1.29	14.90	12.95	10/21/21	jessica		
Sample	AD26766-011	87	87.42515	Percent	1.31	11.33	10.07	10/21/21	jessica		
Sample	AD26766-012	82	82.04159	Percent	1.26	17.13	14.28	10/21/21	jessica		
Sample	AD26773-001	75	75.04440	Percent	1.27	12.53	9.72	10/21/21	jessica		
Sample	AD26773-002	78	78.22086	Percent	1.28	14.32	11.49	10/21/21	jessica		
Sample	AD26773-003	81	81.14035	Percent	1.30	8.14	6.85	10/21/21	jessica		
Sample	AD26773-004	86	86.27451	Percent	1.27	13.00	11.40	10/21/21	jessica		
Sample	AD26775-004	84	83.81019	Percent	1.28	15.61	13.29	10/21/21	jessica		
Sample	AD26775-005	82	81.60237	Percent	1.29	14.77	12.29	10/21/21	jessica		
Sample	AD26793-001	91	90.67308	Percent	1.29	11.69	10.72	10/21/21	jessica		
Sample	AD26793-002	92	92.47788	Percent	1.28	10.32	9.64	10/21/21	jessica		
Sample	AD26793-003	91	91.35484	Percent	1.28	9.03	8.36	10/21/21	jessica		
Sample	AD26793-004	93	92.65945	Percent	1.29	9.60	8.99	10/21/21	jessica		
Sample	AD26793-005	92	91.87764	Percent	1.28	10.76	9.99	10/21/21	jessica		
Sample	AD26793-006	91	91.18421	Percent	1.28	8.88	8.21	10/21/21	jessica		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 12/7/2021

Report Date: 1/25/2022

Deliverables: MDE-R

Lab ID: AD27738

Lab Project No: 1120701

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1120701

Sample Summary

Client: Intertek-PSI

HC Project #: 1120701

Project: CSA WMATA 0444100

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD27738-001	SB-008 SS	Soil/Terracore	12/6/2021	12/7/2021

HC Case Narrative

Client: Intertek-PSI **HC Project:** 1120701
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 98234 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98234 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The spiking compounds were diluted out of the Matrix Spike and/or Matrix Spike Duplicate for batch 95887. Please refer to the applicable Form 3 for the recoveries.

The surrogates were diluted out for the samples AD27892-004, -004(MS/MSD). Please refer to the applicable Form 2 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

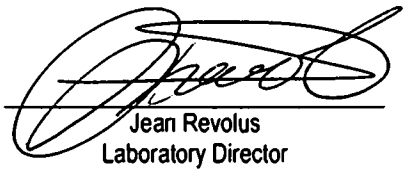
The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 96660. Please refer to the applicable Form 6/9 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or



Jean Revolus
Laboratory Director

1/25/2022
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1120701

Project: CSA WMATA 0444100

Lab#: AD27738-001 **Sample ID: SB-008 SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.7	6.3	EPA 6010D
Arsenic	mg/kg	0.23	1.0	EPA 6020B

HC Report of Analysis

Client: Intertek-PSI **HC Project #:** 1120701

Project: CSA WMATA 0444100

Sample ID: SB-008 SS **Collection Date:** 12/6/2021
Lab#: AD27738-001 **Receipt Date:** 12/7/2021
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	69	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	73.3	mg/kg	21	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.7	6.3
Lead	1	mg/kg	5.7	ND

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.23	1.0
Cadmium	1	mg/kg	0.46	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.038	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.038	ND
1,2-Diphenylhydrazine	1	mg/kg	0.038	ND
1,4-Dioxane	1	mg/kg	0.019	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.038	ND
2,4,5-Trichlorophenol	1	mg/kg	0.038	ND
2,4,6-Trichlorophenol	1	mg/kg	0.038	ND
2,4-Dichlorophenol	1	mg/kg	0.014	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.038	ND
2,6-Dinitrotoluene	1	mg/kg	0.038	ND
2-Chloronaphthalene	1	mg/kg	0.038	ND
2-Chlorophenol	1	mg/kg	0.038	ND
2-Methylnaphthalene	1	mg/kg	0.038	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.038	ND
2-Nitrophenol	1	mg/kg	0.038	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.038	ND
3-Nitroaniline	1	mg/kg	0.038	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.038	ND
4-Chloro-3-methylphenol	1	mg/kg	0.038	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.038	ND

Sample ID:	**SB-008 SS**	**Collection Date:**	**12/6/2021**
Lab#:	**AD27738-001**	**Receipt Date:**	**12/7/2021**
Matrix:	**Soil/Terracore**		

4-Nitroaniline	1	mg/kg	0.038	ND
4-Nitrophenol	1	mg/kg	0.038	ND
Acenaphthene	1	mg/kg	0.038	ND
Acenaphthylene	1	mg/kg	0.038	ND
Acetophenone	1	mg/kg	0.038	ND
Anthracene	1	mg/kg	0.038	ND
Atrazine	1	mg/kg	0.038	ND
Benzaldehyde	1	mg/kg	0.42	ND
Benzidine	1	mg/kg	0.067	ND
Benzo[a]anthracene	1	mg/kg	0.038	ND
Benzo[a]pyrene	1	mg/kg	0.038	ND
Benzo[b]fluoranthene	1	mg/kg	0.038	ND
Benzo[g,h,i]perylene	1	mg/kg	0.038	ND
Benzo[k]fluoranthene	1	mg/kg	0.038	ND
Benzyl alcohol	1	mg/kg	0.038	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.038	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0096	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.038	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.038	ND
Butylbenzylphthalate	1	mg/kg	0.038	ND
Caprolactam	1	mg/kg	0.038	ND
Carbazole	1	mg/kg	0.038	ND
Chrysene	1	mg/kg	0.038	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.038	ND
Dibenzofuran	1	mg/kg	0.0097	ND
Diethylphthalate	1	mg/kg	0.038	ND
Dimethylphthalate	1	mg/kg	0.038	ND
Di-n-butylphthalate	1	mg/kg	0.044	ND
Di-n-octylphthalate	1	mg/kg	0.038	ND
Fluoranthene	1	mg/kg	0.038	ND
Fluorene	1	mg/kg	0.038	ND
Hexachlorobenzene	1	mg/kg	0.038	ND
Hexachlorobutadiene	1	mg/kg	0.038	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.038	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.038	ND
Isophorone	1	mg/kg	0.038	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.038	ND
N-Nitrosodimethylamine	1	mg/kg	0.047	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.014	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	1	mg/kg	0.038	ND
Phenol	1	mg/kg	0.038	ND
Pyrene	1	mg/kg	0.038	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	69	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.649	mg/kg	0.0015	ND
1,1,2,2-Tetrachloroethane	0.649	mg/kg	0.0015	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.649	mg/kg	0.0015	ND
1,1,2-Trichloroethane	0.649	mg/kg	0.0015	ND

Sample ID: SB-008 SS			Collection Date: 12/6/2021	
Lab#: AD27738-001			Receipt Date: 12/7/2021	
Matrix: Soil/Terracore				
1,1-Dichloroethane	0.649	mg/kg	0.0015	ND
1,1-Dichloroethene	0.649	mg/kg	0.0015	ND
1,2,3-Trichlorobenzene	0.649	mg/kg	0.0015	ND
1,2,4-Trichlorobenzene	0.649	mg/kg	0.0015	ND
1,2-Dibromo-3-chloropropane	0.649	mg/kg	0.0015	ND
1,2-Dibromoethane	0.649	mg/kg	0.00037	ND
1,2-Dichlorobenzene	0.649	mg/kg	0.0015	ND
1,2-Dichloroethane	0.649	mg/kg	0.0015	ND
1,2-Dichloropropane	0.649	mg/kg	0.0015	ND
1,3-Dichlorobenzene	0.649	mg/kg	0.0015	ND
1,4-Dichlorobenzene	0.649	mg/kg	0.0015	ND
1,4-Dioxane	0.649	mg/kg	0.075	ND
2-Butanone	0.649	mg/kg	0.0015	ND
2-Hexanone	0.649	mg/kg	0.0015	ND
4-Methyl-2-pentanone	0.649	mg/kg	0.0015	ND
Acetone	0.649	mg/kg	0.0075	ND
Acrolein	0.649	mg/kg	0.0075	ND
Acrylonitrile	0.649	mg/kg	0.0015	ND
Benzene	0.649	mg/kg	0.00075	ND
Bromochloromethane	0.649	mg/kg	0.0015	ND
Bromodichloromethane	0.649	mg/kg	0.0015	ND
Bromoform	0.649	mg/kg	0.0015	ND
Bromomethane	0.649	mg/kg	0.0015	ND
Carbon disulfide	0.649	mg/kg	0.0025	ND
Carbon tetrachloride	0.649	mg/kg	0.0015	ND
Chlorobenzene	0.649	mg/kg	0.0015	ND
Chloroethane	0.649	mg/kg	0.0015	ND
Chloroform	0.649	mg/kg	0.0015	ND
Chloromethane	0.649	mg/kg	0.0015	ND
cis-1,2-Dichloroethene	0.649	mg/kg	0.0015	ND
cis-1,3-Dichloropropene	0.649	mg/kg	0.0015	ND
Cyclohexane	0.649	mg/kg	0.0015	ND
Dibromochloromethane	0.649	mg/kg	0.0015	ND
Dichlorodifluoromethane	0.649	mg/kg	0.0015	ND
Ethylbenzene	0.649	mg/kg	0.00075	ND
Isopropylbenzene	0.649	mg/kg	0.00075	ND
m&p-Xylenes	0.649	mg/kg	0.00089	ND
Methyl Acetate	0.649	mg/kg	0.0015	ND
Methylcyclohexane	0.649	mg/kg	0.0015	ND
Methylene chloride	0.649	mg/kg	0.0015	ND
Methyl-t-butyl ether	0.649	mg/kg	0.00075	ND
o-Xylene	0.649	mg/kg	0.00075	ND
Styrene	0.649	mg/kg	0.0015	ND
t-Butyl Alcohol	0.649	mg/kg	0.0075	ND
Tetrachloroethene	0.649	mg/kg	0.0015	ND
Toluene	0.649	mg/kg	0.00075	ND
trans-1,2-Dichloroethene	0.649	mg/kg	0.0015	ND
trans-1,3-Dichloropropene	0.649	mg/kg	0.0015	ND
Trichloroethene	0.649	mg/kg	0.0015	ND
Trichlorofluoromethane	0.649	mg/kg	0.0015	ND
Vinyl chloride	0.649	mg/kg	0.0015	ND
Xylenes (Total)	0.649	mg/kg	0.00075	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 1120701

Project: CSA WMATA 0444100

Lab#: AD27738-001 **Sample ID:** SB-008 SS

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/8/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/14/21 18:39	marie	EPA 8015D	12/10/21 13:31	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/10/21 16:55	SG
RCRA Metals 6010D	3005&10/3050	12/08/21 12:20	ksaez	EPA 6010D	12/9/21 12:24	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/08/21 12:20	ksaez	EPA 6020B	12/8/21 20:51	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/15/21 10:45	JJ	EPA 8270E	12/16/21 15:57	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/14/21 18:39	marie	EPA 8015D	12/10/21 13:31	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/15/21 16:50	SG

Chain of Custody

1120701 0010

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1120701

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlok - PSI
Address: 2930 Eskridge Rd. Fairfax, VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andres.acosta@interlok.com
1d) Send Report to: rinzo.renthlei@interlok.com

Project Information

2a) Project: WMATA CSA
2b) Project Mgr: Andres Acosta
2c) Project Location (City/State): Washington, DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # A827738

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH - DRO/GRO/ORO	4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
-001	SB-008 SS	S	12/6/21	1250		G	X	X	X	X	1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
12/6/21	FEDEX		
FEDEX		12/7/21	7:30

11) Sampler (print name): RINZO RENTHLEI Date: 12/6/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.6

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: INTERTEK-VA **HC Project #:** 1120701

Project: CSA WMATA 0444100

---

csmith192.168.1.137
12/10/2021 12:34:44 PM

Per Andy Acosta, The 4 RCRA Metals required are As, Cd, Cr, Pb.

CONDITION UPON RECEIPT

Batch Number AD27738 Entered By: maxwell
Date Entered 12/7/2021 8:52:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.6
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD27738-001	12/07/21 07:30	MAXW	0	M	Received
AD27738-001	12/07/21 08:52	MAXW	0	M	Login
AD27738-001	12/07/21 16:59	R31	1	A	NONE
AD27738-001	12/07/21 22:34	PA	1	A	mix
AD27738-001	12/07/21 22:35	R12	1	A	NONE
AD27738-001	12/08/21 09:16	BCT	1	A	SOLIDS
AD27738-001	12/08/21 09:58	KEVS	1	A	TDSI/HG
AD27738-001	12/08/21 13:00	R12	1	A	NONE
AD27738-001	12/09/21 17:15	CN	1	A	TPH-SOIL
AD27738-001	12/09/21 17:16	R12	1	A	NONE
AD27738-001	12/14/21 16:39	MSL	1	A	TPH
AD27738-001	12/14/21 18:42	R12	1	A	NONE
AD27738-001	12/07/21 08:56	R31	2	A	NONE
AD27738-001	12/07/21 08:56	F19	3	A	NONE
AD27738-001	12/07/21 08:56	F19	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27738-001
Client Id: SB-008 SS
Data File: 8M553162.D
Analysis Date: 12/15/21 16:50
Date Rec/Extracted: 12/07/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 7.71g
Final Vol: NA
Dilution: 0.649
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0015	U	56-23-5	Carbon Tetrachloride	0.0015	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0015	U	108-90-7	Chlorobenzene	0.0015	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0015	U	75-00-3	Chloroethane	0.0015	U
79-00-5	1,1,2-Trichloroethane	0.0015	U	67-66-3	Chloroform	0.0015	U
75-34-3	1,1-Dichloroethane	0.0015	U	74-87-3	Chloromethane	0.0015	U
75-35-4	1,1-Dichloroethene	0.0015	U	156-59-2	cis-1,2-Dichloroethene	0.0015	U
87-61-6	1,2,3-Trichlorobenzene	0.0015	U	10061-01-5	cis-1,3-Dichloropropene	0.0015	U
120-82-1	1,2,4-Trichlorobenzene	0.0015	U	110-82-7	Cyclohexane	0.0015	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0015	U	124-48-1	Dibromochloromethane	0.0015	U
106-93-4	1,2-Dibromoethane	0.00037	U	75-71-8	Dichlorodifluoromethane	0.0015	U
95-50-1	1,2-Dichlorobenzene	0.0015	U	100-41-4	Ethylbenzene	0.00075	U
107-06-2	1,2-Dichloroethane	0.0015	U	98-82-8	Isopropylbenzene	0.00075	U
78-87-5	1,2-Dichloropropane	0.0015	U	79601-23-1	m&p-Xylenes	0.00089	U
541-73-1	1,3-Dichlorobenzene	0.0015	U	79-20-9	Methyl Acetate	0.0015	U
106-46-7	1,4-Dichlorobenzene	0.0015	U	108-87-2	Methylcyclohexane	0.0015	U
123-91-1	1,4-Dioxane	0.075	U	75-09-2	Methylene Chloride	0.0015	U
78-93-3	2-Butanone	0.0015	U	1634-04-4	Methyl-t-butyl ether	0.00075	U
591-78-6	2-Hexanone	0.0015	U	95-47-6	o-Xylene	0.00075	U
108-10-1	4-Methyl-2-Pentanone	0.0015	U	100-42-5	Styrene	0.0015	U
67-64-1	Acetone	0.0075	U	75-65-0	t-Butyl Alcohol	0.0075	U
107-02-8	Acrolein	0.0075	U	127-18-4	Tetrachloroethene	0.0015	U
107-13-1	Acrylonitrile	0.0015	U	108-88-3	Toluene	0.00075	U
71-43-2	Benzene	0.00075	U	156-60-5	trans-1,2-Dichloroethene	0.0015	U
74-97-5	Bromochloromethane	0.0015	U	10061-02-6	trans-1,3-Dichloropropene	0.0015	U
75-27-4	Bromodichloromethane	0.0015	U	79-01-6	Trichloroethene	0.0015	U
75-25-2	Bromoform	0.0015	U	75-69-4	Trichlorofluoromethane	0.0015	U
74-83-9	Bromomethane	0.0015	U	75-01-4	Vinyl Chloride	0.0015	U
75-15-0	Carbon Disulfide	0.0025	U	1330-20-7	Xylenes (Total)	0.00075	U

Worksheet #: 622079 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

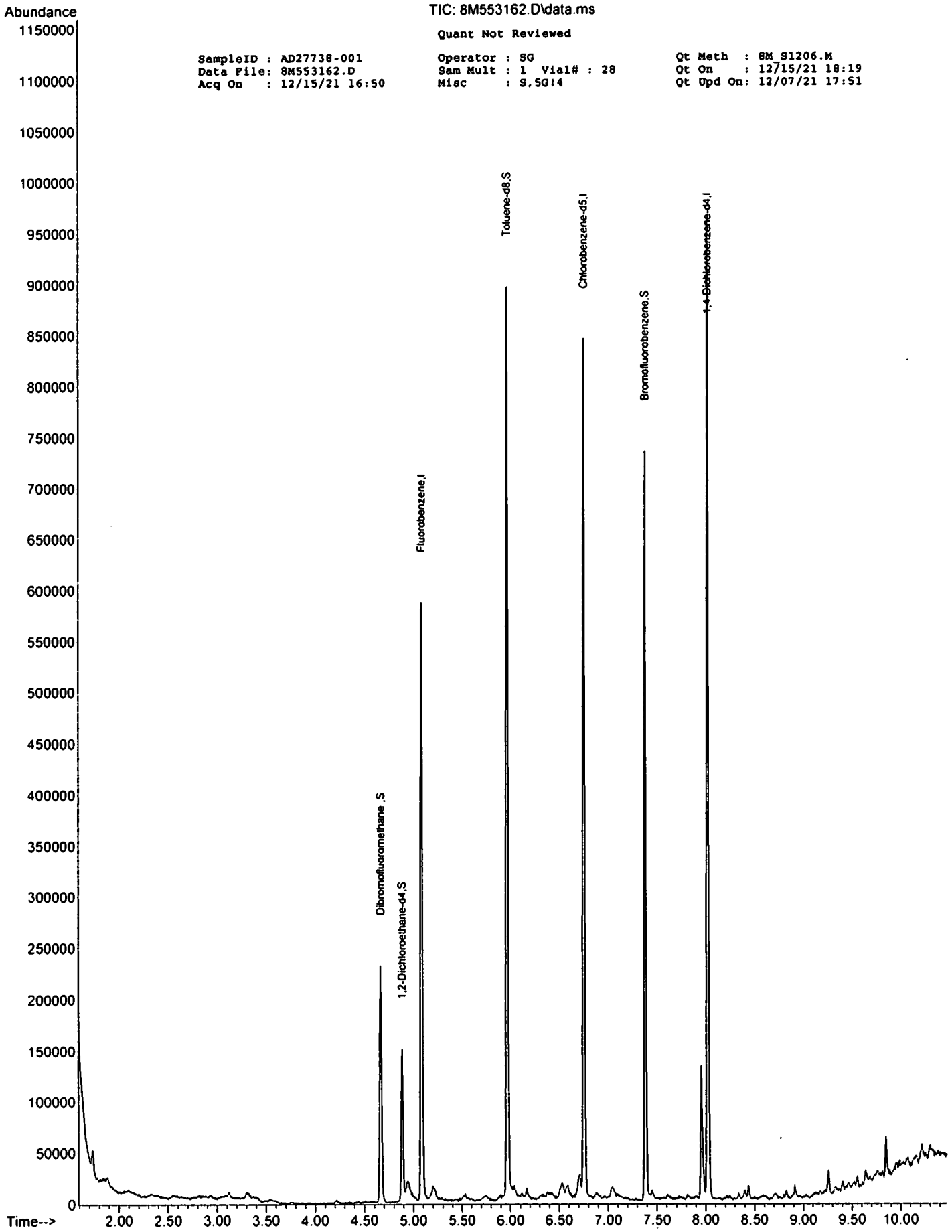
Quantitation Report (Not Reviewed)

SampleID : AD27738-001 Operator : SG Qt Meth : 8M_S1206.M
Data File: 8M553162.D Sam Mult : 1 Vial# : 28 Qt On : 12/15/21 18:19
Acq On : 12/15/21 16:50 Misc : S,5G!4 Qt Upd On: 12/07/21 17:51

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	379217	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	366466	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	203718	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.667	111	98599	26.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.73%			
39) 1,2-Dichloroethane-d4	4.886	67	37761	25.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.07%			
66) Toluene-d8	5.970	98	418958	27.90	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.00%			
76) Bromofluorobenzene	7.384	174	147521	29.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.87%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553162.D\data.ms
Quant Not Reviewed
SampleID : AD27738-001
Data File: 8M553162.D
Acq On : 12/15/21 16:50
Operator : SG
Sam Mult : 1 Vial# : 28
Misc : S,SG!4
Qt Meth : 8M_S1206.M
Qt On : 12/15/21 18:19
Qt Upd On: 12/07/21 17:51
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M553149.D
Analysis Date: 12/15/21 12:28
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 622079 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK
Data File: 8M553149.D
Acq On : 12/15/21 12:28

Operator : SG
Sam Mult : 1 Vial# : 15
Misc : S,12G

Qt Meth : 8M_S1206.M
Qt On : 12/15/21 12:39
Qt Upd On: 12/07/21 17:51

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	294932	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	278184	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	147050	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	73553	25.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.07%			
39) 1,2-Dichloroethane-d4	4.883	67	25801	22.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 75.63%			
66) Toluene-d8	5.970	98	321450	28.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.00%			
76) Bromofluorobenzene	7.388	174	108984	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.23%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

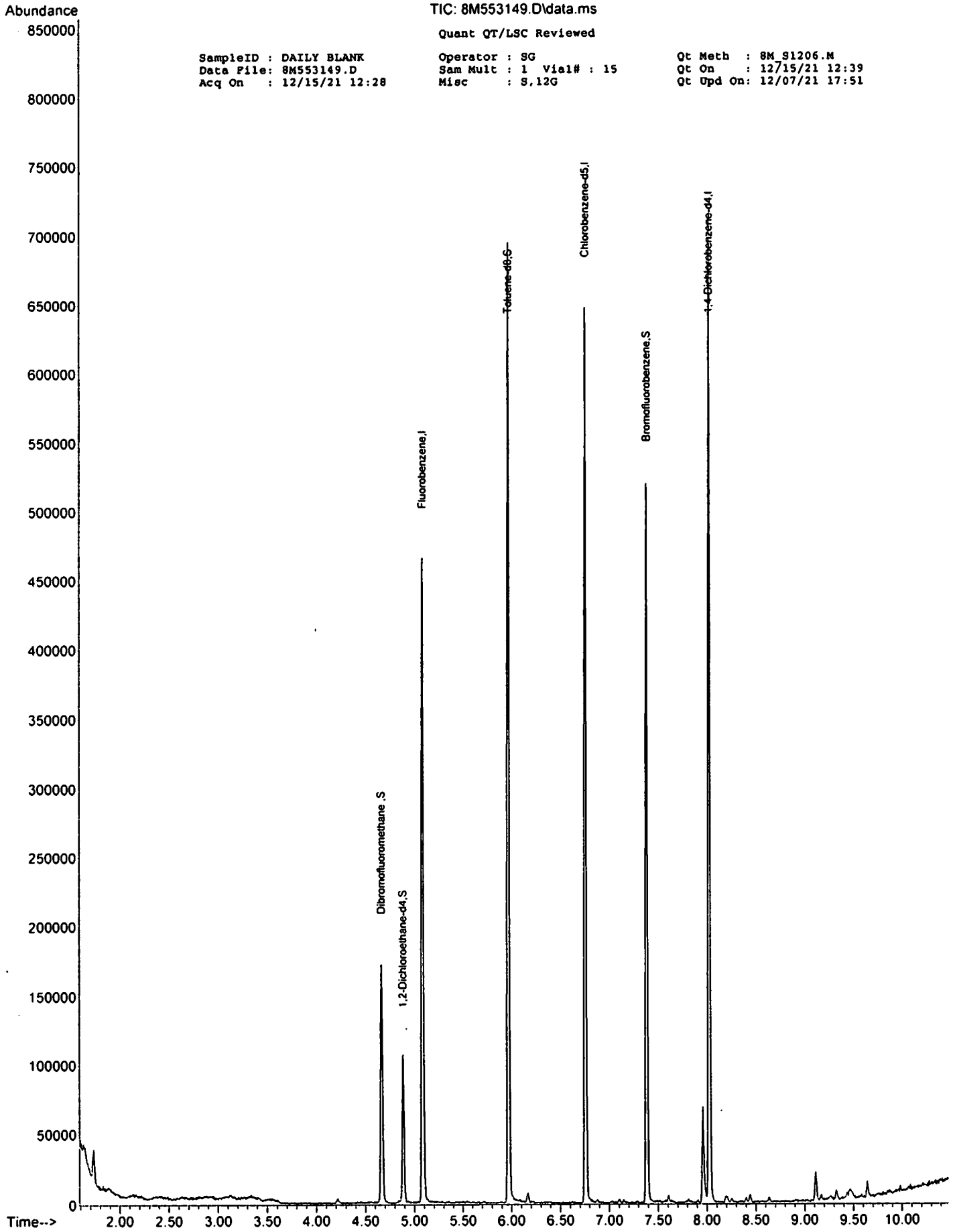
TIC: 8M553149.D\data.ms

Quant QT/LSC Reviewed

SampleID : DAILY BLANK
Data File: 8M553149.D
Acq On : 12/15/21 12:28

Operator : SG
Sam Mult : 1 Vial# : 15
Misc : S,12G

Qt Meth : 8M_S1206.M
Qt On : 12/15/21 12:39
Qt Upd On: 12/07/21 17:51



FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8M553149.D	DAILY BLANK	S	12/15/21 12:28	1		86	76	94	102		
8M553162.D	AD27738-001	S	12/15/21 16:50	1		90	86	93	100		
8M553160.D	AD27849-014	S	12/15/21 16:10	1		88	75	94	104		
8M553163.D	MBS98234	S	12/15/21 17:10	1		87	82	93	101		
8M553164.D	AD27849-014(MS)	S	12/15/21 17:31	1		90	83	96	106		
8M553165.D	AD27849-014(MSD)	S	12/15/21 17:51	1		89	86	93	104		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1.2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M553163.D	MBS98234	12/15/2021 5:10:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	29.826	0	50	60	20	130
Dichlorodifluoromethane	1	24.0016	0	50	48	20	130
Chloromethane	1	28.0481	0	50	56	20	130
Bromomethane	1	37.0184	0	50	74	20	130
Vinyl Chloride	1	33.9993	0	50	68	20	130
Chloroethane	1	35.1585	0	50	70	20	130
Trichlorofluoromethane	1	29.1342	0	50	58	20	130
Ethyl ether	1	32.3778	0	50	65	50	130
Furan	1	29.1924	0	50	58	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	34.1124	0	50	68	50	130
Methylene Chloride	1	38.9642	0	50	78	50	130
Acrolein	1	140.1889	0	200	70	20	130
Acrylonitrile	1	35.0462	0	50	70	20	130
Iodomethane	1	43.0852	0	50	86	50	130
Acetone	1	107.9142	0	200	54	20	130
Carbon Disulfide	1	35.2481	0	50	70	50	130
t-Butyl Alcohol	1	160.2695	0	200	80	20	130
n-Hexane	1	45.3931	0	50	91	50	130
Di-isopropyl-ether	1	20.9499	0	50	42*	50	130
1,1-Dichloroethene	1	25.6506	0	50	51	50	130
Methyl Acetate	1	29.0739	0	50	58	50	130
Methyl-t-butyl ether	1	41.9876	0	50	84	50	130
1,1-Dichloroethane	1	34.8265	0	50	70	50	130
trans-1,2-Dichloroethene	1	42.0262	0	50	84	50	130
Ethyl-t-butyl ether	1	39.1708	0	50	78	50	130
cis-1,2-Dichloroethene	1	40.4701	0	50	81	50	130
Bromochloromethane	1	36.5556	0	50	73	50	130
2,2-Dichloropropane	1	37.5901	0	50	75	50	130
Ethyl acetate	1	35.3278	0	50	71	50	130
1,4-Dioxane	1	2012.552	0	2500	81	50	130
1,1-Dichloropropene	1	40.8616	0	50	82	50	130
Chloroform	1	42.2547	0	50	85	50	130
Cyclohexane	1	42.8515	0	50	86	50	130
1,2-Dichloroethane	1	35.3669	0	50	71	50	130
2-Butanone	1	33.3922	0	50	67	20	130
1,1,1-Trichloroethane	1	29.4342	0	50	59	50	130
Carbon Tetrachloride	1	39.6344	0	50	79	50	130
Vinyl Acetate	1	20.8749	0	50	42*	50	130
Bromodichloromethane	1	41.9876	0	50	84	50	130
Methylcyclohexane	1	45.0224	0	50	90	50	130
Dibromomethane	1	45.6776	0	50	91	50	130
1,2-Dichloropropane	1	46.4544	0	50	93	50	130
Trichloroethene	1	41.3587	0	50	83	50	130
Benzene	1	46.1465	0	50	92	50	130
tert-Amyl methyl ether	1	29.9445	0	50	60	50	130
Iso-propylacetate	1	24.356	0	50	49*	50	130
Methyl methacrylate	1	30.4719	0	50	61	50	130
Dibromochloromethane	1	36.8702	0	50	74	50	130
2-Chloroethylvinylether	1	29.8432	0	50	60	50	130
cis-1,3-Dichloropropene	1	33.0153	0	50	66	50	130
trans-1,3-Dichloropropene	1	26.0315	0	50	52	50	130
Ethyl methacrylate	1	33.5358	0	50	67	50	130
1,1,2-Trichloroethane	1	39.3635	0	50	79	50	130
1,2-Dibromoethane	1	51.2737	0	50	103	50	130
1,3-Dichloropropane	1	43.0879	0	50	86	50	130
4-Methyl-2-Pentanone	1	27.5387	0	50	55	20	130
2-Hexanone	1	26.7053	0	50	53	20	130
Tetrachloroethene	1	35.0911	0	50	70	50	130
Toluene	1	38.8308	0	50	78	50	130
1,1,1,2-Tetrachloroethane	1	39.2153	0	50	78	50	130
Chlorobenzene	1	38.8675	0	50	78	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D	Matrix: Soil	Units: mg/Kg	QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	42.6169	0	50	85	50	130
n-Amyl acetate	1	38.9769	0	50	78	50	130
Bromoform	**1**	**37.0609**	**0**	**50**	**74**	**20**	**130**
Ethylbenzene	**1**	**41.1963**	**0**	**50**	**82**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**37.6027**	**0**	**50**	**75**	**50**	**130**
Styrene	**1**	**43.1843**	**0**	**50**	**86**	**50**	**130**
m&p-Xylenes	**1**	**79.9698**	**0**	**100**	**80**	**50**	**130**
o-Xylene	**1**	**41.6233**	**0**	**50**	**83**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	26.0035	0	50	52	20	130
1,3-Dichlorobenzene	**1**	**38.3393**	**0**	**50**	**77**	**50**	**130**
1,4-Dichlorobenzene	**1**	**37.3313**	**0**	**50**	**75**	**50**	**130**
1,2-Dichlorobenzene	**1**	**38.1788**	**0**	**50**	**76**	**50**	**130**
Isopropylbenzene	**1**	**39.1293**	**0**	**50**	**78**	**50**	**130**
Cyclohexanone	1	229.9436	0	250	92	50	130
Camphene	1	31.9599	0	50	64	50	130
1,2,3-Trichloropropane	1	35.1951	0	50	70	50	130
2-Chlorotoluene	1	38.6117	0	50	77	50	130
p-Ethyltoluene	1	42.1683	0	50	84	50	130
4-Chlorotoluene	1	37.1102	0	50	74	50	130
n-Propylbenzene	1	37.2569	0	50	75	50	130
Bromobenzene	1	35.4089	0	50	71	50	130
1,3,5-Trimethylbenzene	1	37.0171	0	50	74	50	130
Butyl methacrylate	1	35.486	0	50	71	50	130
t-Butylbenzene	1	35.9304	0	50	72	50	130
1,2,4-Trimethylbenzene	1	39.5929	0	50	79	50	130
sec-Butylbenzene	1	37.6949	0	50	75	50	130
4-Isopropyltoluene	1	36.939	0	50	74	50	130
n-Butylbenzene	1	37.3564	0	50	75	50	130
p-Diethylbenzene	1	40.024	0	50	80	50	130
1,2,4,5-Tetramethylbenzene	1	39.6066	0	50	79	50	130
1,2-Dibromo-3-Chloropropane	**1**	**36.7481**	**0**	**50**	**73**	**50**	**130**
Camphor	1	133.2067	0	500	27 *	50	130
Hexachlorobutadiene	1	28.5376	0	50	57	50	130
1,2,4-Trichlorobenzene	**1**	**39.3171**	**0**	**50**	**79**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**36.9653**	**0**	**50**	**74**	**50**	**130**
Naphthalene	1	32.2092	0	50	64	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553164.D	AD27849-014(MS)	12/15/2021 5:31:00 PM
Non Spike(If applicable):	8M553160.D	AD27849-014	12/15/2021 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.0876	0	50	54	20	130
Dichlorodifluoromethane	1	19.7694	0	50	40	20	130
Chloromethane	1	25.4769	0	50	51	20	130
Bromomethane	1	31.381	0	50	63	20	130
Vinyl Chloride	1	30.9659	0	50	62	20	130
Chloroethane	1	26.5119	0	50	53	20	130
Trichlorofluoromethane	1	27.8574	0	50	56	20	130
Ethyl ether	1	30.22	0	50	60	50	130
Furan	1	22.1395	0	50	44*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.8306	0	50	66	50	130
Methylene Chloride	1	37.992	6.8875	50	62	50	130
Acrolein	1	98.766	0	200	49	20	130
Acrylonitrile	1	30.0811	0	50	60	20	130
Iodomethane	1	35.5467	0	50	71	50	130
Acetone	1	155.3701	68.3723	200	43	20	130
Carbon Disulfide	1	33.1051	0	50	66	50	130
t-Butyl Alcohol	1	149.4839	0	200	75	20	130
n-Hexane	1	41.9484	0	50	84	50	130
Di-isopropyl-ether	1	23.827	0	50	48*	50	130
1,1-Dichloroethene	1	25.4219	0	50	51	50	130
Methyl Acetate	1	34.3246	0	50	69	50	130
Methyl-t-butyl ether	1	43.3938	0	50	87	50	130
1,1-Dichloroethane	1	32.2084	0	50	64	50	130
trans-1,2-Dichloroethene	1	41.3567	0	50	83	50	130
Ethyl-t-butyl ether	1	50.0308	0	50	100	50	130
cis-1,2-Dichloroethene	1	38.706	0	50	77	50	130
Bromochloromethane	1	36.16	0	50	72	50	130
2,2-Dichloropropane	1	32.1908	0	50	64	50	130
Ethyl acetate	1	21.7736	0	50	44*	50	130
1,4-Dioxane	1	1832.884	0	2500	73	50	130
1,1-Dichloropropene	1	38.4958	0	50	77	50	130
Chloroform	1	40.8971	0	50	82	50	130
Cyclohexane	1	40.0423	0	50	80	50	130
1,2-Dichloroethane	1	34.8673	0	50	70	50	130
2-Butanone	1	3.6066	0	50	7.2*	20	130
1,1,1-Trichloroethane	1	25.1906	0	50	50	50	130
Carbon Tetrachloride	1	36.7286	0	50	73	50	130
Vinyl Acetate	1	23.3264	0	50	47*	50	130
Bromodichloromethane	1	40.722	0	50	81	50	130
Methylcyclohexane	1	41.2431	0	50	82	50	130
Dibromomethane	1	43.3686	0	50	87	50	130
1,2-Dichloropropane	1	44.0911	0	50	88	50	130
Trichloroethene	1	40.6252	0	50	81	50	130
Benzene	1	44.7207	0	50	89	50	130
tert-Amyl methyl ether	1	50.4756	0	50	101	50	130
Iso-propylacetate	1	10.9684	0	50	22*	50	130
Methyl methacrylate	1	37.1814	0	50	74	50	130
Dibromochloromethane	1	36.9842	0	50	74	50	130
2-Chloroethylvinylether	1	30.4547	0	50	61	50	130
cis-1,3-Dichloropropene	1	32.3423	0	50	65	50	130
trans-1,3-Dichloropropene	1	26.717	0	50	53	50	130
Ethyl methacrylate	1	22.441	0	50	45*	50	130
1,1,2-Trichloroethane	1	39.0596	0	50	78	50	130
1,2-Dibromoethane	1	48.1546	0	50	96	50	130
1,3-Dichloropropane	1	43.7185	0	50	87	50	130
4-Methyl-2-Pentanone	1	27.6457	0	50	55	20	130
2-Hexanone	1	23.7215	0	50	47	20	130
Tetrachloroethene	1	35.6688	0	50	71	50	130
Toluene	1	38.8708	0	50	78	50	130
1,1,1,2-Tetrachloroethane	1	38.0881	0	50	76	50	130
Chlorobenzene	1	38.5935	0	50	77	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	29.9545	0	50	60	50	130
n-Amyl acetate	1	24.0328	0	50	48*	50	130
Bromoform	**1**	**38.0227**	**0**	**50**	**76**	**20**	**130**
Ethylbenzene	**1**	**40.8051**	**0**	**50**	**82**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**38.8254**	**0**	**50**	**78**	**50**	**130**
Styrene	**1**	**43.6639**	**0**	**50**	**87**	**50**	**130**
m&p-Xylenes	**1**	**81.8732**	**0**	**100**	**82**	**50**	**130**
o-Xylene	**1**	**42.2793**	**0**	**50**	**85**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	24.5527	0	50	49	20	130
1,3-Dichlorobenzene	**1**	**36.0184**	**0**	**50**	**72**	**50**	**130**
1,4-Dichlorobenzene	**1**	**35.3241**	**0**	**50**	**71**	**50**	**130**
1,2-Dichlorobenzene	**1**	**35.6928**	**0**	**50**	**71**	**50**	**130**
Isopropylbenzene	**1**	**38.5523**	**0**	**50**	**77**	**50**	**130**
Cyclohexanone	1	179.7916	0	250	72	50	130
Camphene	1	30.641	0	50	61	50	130
1,2,3-Trichloropropane	1	34.1585	0	50	68	50	130
2-Chlorotoluene	1	36.8803	0	50	74	50	130
p-Ethyltoluene	1	41.1434	0	50	82	50	130
4-Chlorotoluene	1	36.9896	0	50	74	50	130
n-Propylbenzene	1	36.6041	0	50	73	50	130
Bromobenzene	1	31.5729	0	50	63	50	130
1,3,5-Trimethylbenzene	1	36.938	0	50	74	50	130
Butyl methacrylate	1	25.9911	0	50	52	50	130
t-Butylbenzene	1	34.8028	0	50	70	50	130
1,2,4-Trimethylbenzene	1	38.577	0	50	77	50	130
sec-Butylbenzene	1	34.2654	0	50	69	50	130
4-Isopropyltoluene	1	34.777	0	50	70	50	130
n-Butylbenzene	1	32.6278	0	50	65	50	130
p-Diethylbenzene	1	36.2243	0	50	72	50	130
1,2,4,5-Tetramethylbenzene	1	35.8349	0	50	72	50	130
1,2-Dibromo-3-Chloropropane	**1**	**32.6578**	**0**	**50**	**65**	**50**	**130**
Camphor	1	908.5166	0	500	182*	50	130
Hexachlorobutadiene	1	19.7569	0	50	40*	50	130
1,2,4-Trichlorobenzene	**1**	**30.0685**	**0**	**50**	**60**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**27.9071**	**0**	**50**	**56**	**50**	**130**
Naphthalene	1	31.1402	0	50	62	50	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553165.D	AD27849-014(MSD)	12/15/2021 5:51:00 PM
Non Spike(If applicable):	8M553160.D	AD27849-014	12/15/2021 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	25.1675	0	50	50	20	130
Dichlorodifluoromethane	1	20.4586	0	50	41	20	130
Chloromethane	1	27.1059	0	50	54	20	130
Bromomethane	1	35.009	0	50	70	20	130
Vinyl Chloride	1	32.2938	0	50	65	20	130
Chloroethane	1	29.2169	0	50	58	20	130
Trichlorofluoromethane	1	28.0719	0	50	56	20	130
Ethyl ether	1	32.0632	0	50	64	50	130
Furan	1	23.4424	0	50	47*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	33.7656	0	50	68	50	130
Methylene Chloride	1	41.5224	6.8875	50	69	50	130
Acrolein	1	93.8678	0	200	47	20	130
Acrylonitrile	1	31.5404	0	50	63	20	130
Iodomethane	1	35.3555	0	50	71	50	130
Acetone	1	161.6986	68.3723	200	47	20	130
Carbon Disulfide	1	34.0513	0	50	68	50	130
t-Butyl Alcohol	1	158.6011	0	200	79	20	130
n-Hexane	1	43.8493	0	50	88	50	130
Di-isopropyl-ether	1	30.8266	0	50	62	50	130
1,1-Dichloroethene	1	25.1894	0	50	50	50	130
Methyl Acetate	1	35.735	0	50	71	50	130
Methyl-t-butyl ether	1	47.5668	0	50	95	50	130
1,1-Dichloroethane	1	33.564	0	50	67	50	130
trans-1,2-Dichloroethene	1	41.5117	0	50	83	50	130
Ethyl-t-butyl ether	1	51.917	0	50	104	50	130
cis-1,2-Dichloroethene	1	38.7205	0	50	77	50	130
Bromochloromethane	1	36.4119	0	50	73	50	130
2,2-Dichloropropane	1	33.8056	0	50	68	50	130
Ethyl acetate	1	25.8217	0	50	52	50	130
1,4-Dioxane	1	2008.466	0	2500	80	50	130
1,1-Dichloropropene	1	38.1845	0	50	76	50	130
Chloroform	1	40.4783	0	50	81	50	130
Cyclohexane	1	42.1077	0	50	84	50	130
1,2-Dichloroethane	1	34.5732	0	50	69	50	130
2-Butanone	1	4.9614	0	50	9.9*	20	130
1,1,1-Trichloroethane	1	27.2842	0	50	55	50	130
Carbon Tetrachloride	1	38.9593	0	50	78	50	130
Vinyl Acetate	1	28.5838	0	50	57	50	130
Bromodichloromethane	1	41.0835	0	50	82	50	130
Methylcyclohexane	1	41.766	0	50	84	50	130
Dibromomethane	1	44.3908	0	50	89	50	130
1,2-Dichloropropane	1	44.3639	0	50	89	50	130
Trichloroethene	1	39.8719	0	50	80	50	130
Benzene	1	44.2573	0	50	89	50	130
tert-Amyl methyl ether	1	62.1728	0	50	124	50	130
Iso-propylacetate	1	17.9509	0	50	36*	50	130
Methyl methacrylate	1	35.7848	0	50	72	50	130
Dibromochloromethane	1	36.1383	0	50	72	50	130
2-Chloroethylvinylether	1	28.1049	0	50	56	50	130
cis-1,3-Dichloropropene	1	32.7902	0	50	66	50	130
trans-1,3-Dichloropropene	1	27.397	0	50	55	50	130
Ethyl methacrylate	1	24.22	0	50	48*	50	130
1,1,2-Trichloroethane	1	38.733	0	50	77	50	130
1,2-Dibromoethane	1	51.3944	0	50	103	50	130
1,3-Dichloropropane	1	42.7485	0	50	85	50	130
4-Methyl-2-Pentanone	1	28.5918	0	50	57	20	130
2-Hexanone	1	23.6741	0	50	47	20	130
Tetrachloroethene	1	33.7119	0	50	67	50	130
Toluene	1	37.9548	0	50	76	50	130
1,1,1,2-Tetrachloroethane	1	36.4337	0	50	73	50	130
Chlorobenzene	1	37.004	0	50	74	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MSD		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	30.6983	0	50	61	50	130
n-Amyl acetate	1	24.423	0	50	49*	50	130
Bromoform	1	35.2436	0	50	70	20	130
Ethylbenzene	1	40.8803	0	50	82	50	130
1,1,2,2-Tetrachloroethane	1	37.4082	0	50	75	50	130
Styrene	1	41.308	0	50	83	50	130
m&p-Xylenes	1	80.0448	0	100	80	50	130
o-Xylene	1	41.0189	0	50	82	50	130
trans-1,4-Dichloro-2-butene	1	24.2601	0	50	49	20	130
1,3-Dichlorobenzene	1	35.1966	0	50	70	50	130
1,4-Dichlorobenzene	1	34.3169	0	50	69	50	130
1,2-Dichlorobenzene	1	34.976	0	50	70	50	130
Isopropylbenzene	1	37.3431	0	50	75	50	130
Cyclohexanone	1	139.8752	0	250	56	50	130
Camphene	1	30.9322	0	50	62	50	130
1,2,3-Trichloropropane	1	34.1842	0	50	68	50	130
2-Chlorotoluene	1	35.6597	0	50	71	50	130
p-Ethyltoluene	1	40.1513	0	50	80	50	130
4-Chlorotoluene	1	36.3787	0	50	73	50	130
n-Propylbenzene	1	35.5554	0	50	71	50	130
Bromobenzene	1	31.2214	0	50	62	50	130
1,3,5-Trimethylbenzene	1	34.6119	0	50	69	50	130
Butyl methacrylate	1	26.5007	0	50	53	50	130
t-Butylbenzene	1	33.446	0	50	67	50	130
1,2,4-Trimethylbenzene	1	37.3452	0	50	75	50	130
sec-Butylbenzene	1	33.541	0	50	67	50	130
4-Isopropyltoluene	1	34.1679	0	50	68	50	130
n-Butylbenzene	1	32.3621	0	50	65	50	130
p-Diethylbenzene	1	35.7738	0	50	72	50	130
1,2,4,5-Tetramethylbenzene	1	34.88	0	50	70	50	130
1,2-Dibromo-3-Chloropropane	1	32.9601	0	50	66	50	130
Camphor	1	1271.926	0	500	254*	50	130
Hexachlorobutadiene	1	20.1841	0	50	40*	50	130
1,2,4-Trichlorobenzene	1	31.2195	0	50	62	50	130
1,2,3-Trichlorobenzene	1	28.7389	0	50	57	50	130
Naphthalene	1	31.301	0	50	63	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553165.D	AD27849-014(MSD)	12/15/2021 5:51:00 PM
Duplicate(If applicable):	8M553164.D	AD27849-014(MS)	12/15/2021 5:31:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	25.1675	27.0876	7.3	30
Dichlorodifluoromethane	**1**	**20.4586**	**19.7694**	**3.4**	**30**
Chloromethane	**1**	**27.1059**	**25.4769**	**6.2**	**30**
Bromomethane	**1**	**35.009**	**31.381**	**11**	**30**
Vinyl Chloride	**1**	**32.2938**	**30.9659**	**4.2**	**40**
Chloroethane	**1**	**29.2169**	**26.5119**	**9.7**	**30**
Trichlorofluoromethane	**1**	**28.0719**	**27.8574**	**0.77**	**30**
Ethyl ether	1	32.0632	30.22	5.9	30
Furan	1	23.4424	22.1395	5.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**33.7656**	**32.8306**	**2.8**	**30**
Methylene Chloride	**1**	**41.5224**	**37.992**	**8.9**	**30**
Acrolein	**1**	**93.8678**	**98.766**	**5.1**	**30**
Acrylonitrile	**1**	**31.5404**	**30.0811**	**4.7**	**30**
Iodomethane	1	35.3555	35.5467	0.54	30
Acetone	**1**	**161.6986**	**155.3701**	**4**	**30**
Carbon Disulfide	**1**	**34.0513**	**33.1051**	**2.8**	**30**
t-Butyl Alcohol	**1**	**158.6011**	**149.4839**	**5.9**	**30**
n-Hexane	1	43.8493	41.9484	4.4	30
Di-isopropyl-ether	1	30.8266	23.827	26	30
1,1-Dichloroethene	**1**	**25.1894**	**25.4219**	**0.92**	**40**
Methyl Acetate	**1**	**35.735**	**34.3246**	**4**	**30**
Methyl-t-butyl ether	**1**	**47.5668**	**43.3938**	**9.2**	**30**
1,1-Dichloroethane	**1**	**33.564**	**32.2084**	**4.1**	**40**
trans-1,2-Dichloroethene	**1**	**41.5117**	**41.3567**	**0.37**	**30**
Ethyl-t-butyl ether	1	51.917	50.0308	3.7	30
cis-1,2-Dichloroethene	**1**	**38.7205**	**38.706**	**0.04**	**30**
Bromochloromethane	**1**	**36.4119**	**36.16**	**0.69**	**30**
2,2-Dichloropropane	1	33.8056	32.1908	4.9	30
Ethyl acetate	1	25.8217	21.7736	17	30
1,4-Dioxane	**1**	**2008.466**	**1832.884**	**9.1**	**30**
1,1-Dichloropropene	1	38.1845	38.4958	0.81	30
Chloroform	**1**	**40.4783**	**40.8971**	**1**	**40**
Cyclohexane	**1**	**42.1077**	**40.0423**	**5**	**30**
1,2-Dichloroethane	**1**	**34.5732**	**34.8673**	**0.85**	**40**
2-Butanone	**1**	**4.9614**	**3.6066**	**32**	**40**
1,1,1-Trichloroethane	**1**	**27.2842**	**25.1906**	**8**	**30**
Carbon Tetrachloride	**1**	**38.9593**	**36.7286**	**5.9**	**40**
Vinyl Acetate	1	28.5838	23.3264	20	30
Bromodichloromethane	**1**	**41.0835**	**40.722**	**0.88**	**30**
Methylcyclohexane	**1**	**41.766**	**41.2431**	**1.3**	**30**
Dibromomethane	1	44.3908	43.3686	2.3	30
1,2-Dichloropropane	**1**	**44.3639**	**44.0911**	**0.62**	**30**
Trichloroethene	**1**	**39.8719**	**40.6252**	**1.9**	**40**
Benzene	**1**	**44.2573**	**44.7207**	**1**	**40**
tert-Amyl methyl ether	1	62.1728	50.4756	21	30
Iso-propylacetate	1	17.9509	10.9684	48*	30
Methyl methacrylate	1	35.7848	37.1814	3.8	30
Dibromochloromethane	**1**	**36.1383**	**36.9842**	**2.3**	**30**
2-Chloroethylvinylether	1	28.1049	30.4547	8	30
cis-1,3-Dichloropropene	**1**	**32.7902**	**32.3423**	**1.4**	**30**
trans-1,3-Dichloropropene	**1**	**27.397**	**26.717**	**2.5**	**30**
Ethyl methacrylate	1	24.22	22.441	7.6	30
1,1,2-Trichloroethane	**1**	**38.733**	**39.0596**	**0.84**	**30**
1,2-Dibromoethane	**1**	**51.3944**	**48.1546**	**6.5**	**30**
1,3-Dichloropropane	1	42.7485	43.7185	2.2	30
4-Methyl-2-Pentanone	**1**	**28.5918**	**27.6457**	**3.4**	**30**
2-Hexanone	**1**	**23.6741**	**23.7215**	**0.2**	**30**
Tetrachloroethene	**1**	**33.7119**	**35.6688**	**5.6**	**40**
Toluene	**1**	**37.9548**	**38.8708**	**2.4**	**40**
1,1,1,2-Tetrachloroethane	1	36.4337	38.0881	4.4	30
Chlorobenzene	**1**	**37.004**	**38.5935**	**4.2**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	30.6983	29.9545	2.5	30
n-Amyl acetate	1	24.423	24.0328	1.6	30
Bromoform	**1**	**35.2436**	**38.0227**	**7.6**	**30**
Ethylbenzene	**1**	**40.8803**	**40.8051**	**0.18**	**30**
1,1,2,2-Tetrachloroethane	**1**	**37.4082**	**38.8254**	**3.7**	**30**
Styrene	**1**	**41.308**	**43.6639**	**5.5**	**30**
m&p-Xylenes	**1**	**80.0448**	**81.8732**	**2.3**	**30**
o-Xylene	**1**	**41.0189**	**42.2793**	**3**	**30**
trans-1,4-Dichloro-2-butene	1	24.2601	24.5527	1.2	30
1,3-Dichlorobenzene	**1**	**35.1966**	**36.0184**	**2.3**	**30**
1,4-Dichlorobenzene	**1**	**34.3169**	**35.3241**	**2.9**	**40**
1,2-Dichlorobenzene	**1**	**34.976**	**35.6928**	**2**	**40**
Isopropylbenzene	**1**	**37.3431**	**38.5523**	**3.2**	**30**
Cyclohexanone	1	139.8752	179.7916	25	30
Camphene	1	30.9322	30.641	0.95	30
1,2,3-Trichloropropane	1	34.1842	34.1585	0.08	30
2-Chlorotoluene	1	35.6597	36.8803	3.4	30
p-Ethyltoluene	1	40.1513	41.1434	2.4	30
4-Chlorotoluene	1	36.3787	36.9896	1.7	30
n-Propylbenzene	1	35.5554	36.6041	2.9	40
Bromobenzene	1	31.2214	31.5729	1.1	30
1,3,5-Trimethylbenzene	1	34.6119	36.938	6.5	30
Butyl methacrylate	1	26.5007	25.9911	1.9	30
t-Butylbenzene	1	33.446	34.8028	4	30
1,2,4-Trimethylbenzene	1	37.3452	38.577	3.2	30
sec-Butylbenzene	1	33.541	34.2654	2.1	40
4-Isopropyltoluene	1	34.1679	34.777	1.8	30
n-Butylbenzene	1	32.3621	32.6278	0.82	30
p-Diethylbenzene	1	35.7738	36.2243	1.3	30
1,2,4,5-Tetramethylbenzene	1	34.88	35.8349	2.7	30
1,2-Dibromo-3-Chloropropane	**1**	**32.9601**	**32.6578**	**0.92**	**30**
Camphor	1	1271.926	908.5166	33*	30
Hexachlorobutadiene	1	20.1841	19.7569	2.1	30
1,2,4-Trichlorobenzene	**1**	**31.2195**	**30.0685**	**3.8**	**30**
1,2,3-Trichlorobenzene	**1**	**28.7389**	**27.9071**	**2.9**	**30**
Naphthalene	1	31.301	31.1402	0.52	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M553149.D
Matrix: Soil

Blank Analysis Date: 12/15/21 12:28
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD27738-001	8M553162.D	12/15/21 16:50
AD27849-014(MSD	8M553165.D	12/15/21 17:51
AD27849-014(MS)	8M553164.D	12/15/21 17:31
MBS98234	8M553163.D	12/15/21 17:10
AD27849-014	8M553160.D	12/15/21 16:10

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M552664.D
Analysis Date: 12/06/21 19:58
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.359 to 7.394 min

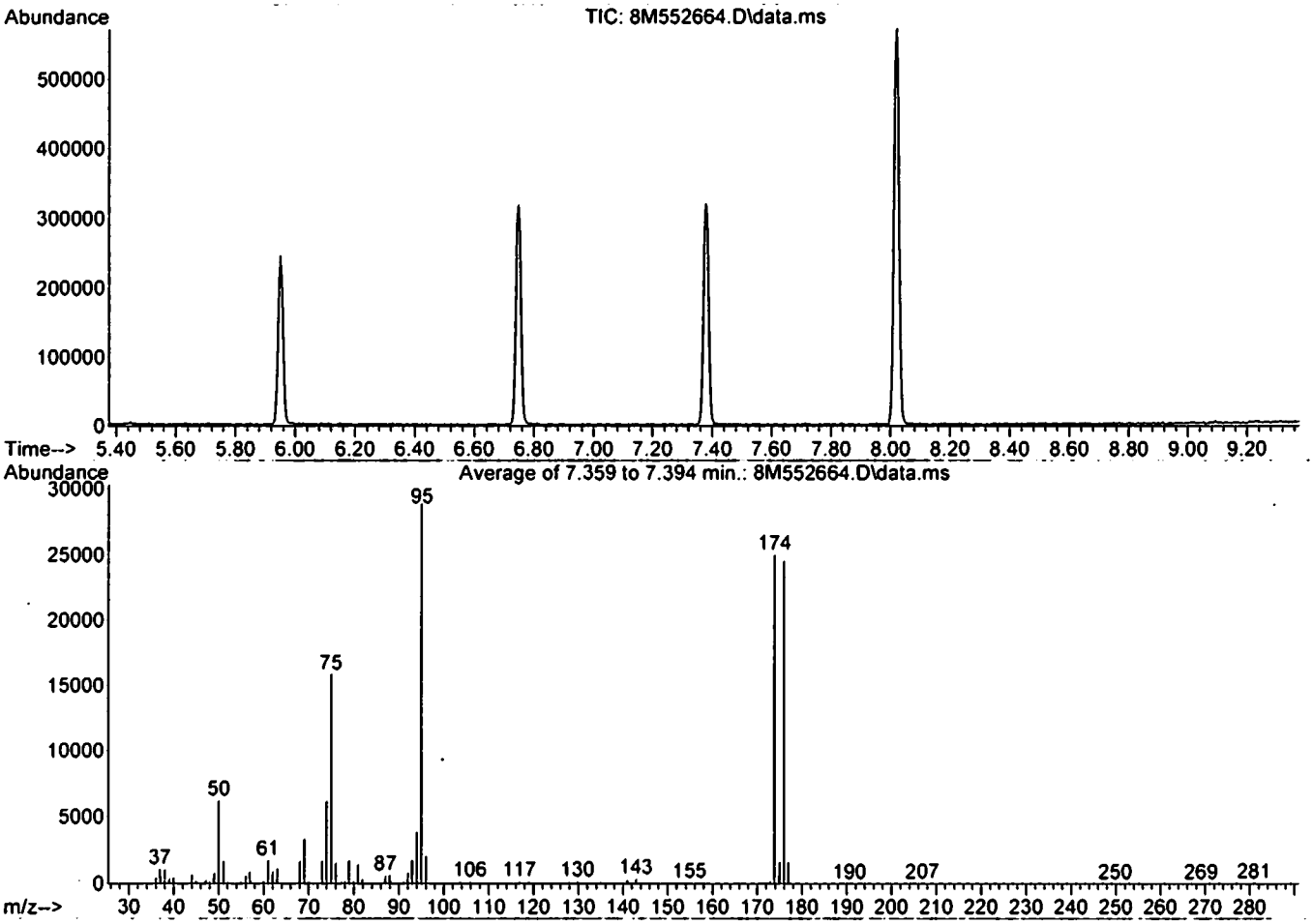
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.5	6222	PASS
75	95	30	60	55.1	15910	PASS
95	95	100	100	100.0	28896	PASS
96	95	5	9	7.2	2086	PASS
173	174	0.00	2	0.9	214	PASS
174	95	50	100	86.7	25046	PASS
175	174	5	9	6.6	1659	PASS
176	174	95	101	98.1	24576	PASS
177	176	5	9	6.7	1640	PASS

Data File	Sample Number	Analysis Date:
8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37
8M552667.D	CAL @ 1 PPB	12/06/21 20:57
8M552668.D	CAL @ 5 PPB	12/06/21 21:17
8M552669.D	CAL @ 2 PPB	12/06/21 21:38
8M552670.D	CAL @ 20 PPB	12/06/21 21:58
8M552671.D	CAL @ 50 PPB	12/06/21 22:18
8M552672.D	CAL @ 100 PPB	12/06/21 22:38
8M552673.D	CAL @ 250 PPB	12/06/21 22:58
8M552674.D	CAL @ 500 PPB	12/06/21 23:18
8M552675.D	BLK	12/06/21 23:39
8M552676.D	BLK	12/06/21 23:59
8M552677.D	BLK	12/07/21 00:19
8M552678.D	BLK	12/07/21 00:39
8M552679.D	ICV	12/07/21 00:59
8M552680.D	BLK	12/07/21 01:15
8M552681.D	STD	12/07/21 01:30
8M552682.D	BLK	12/07/21 01:50
8M552683.D	BLK	12/07/21 02:10
8M552684.D	DAILY BLANK	12/07/21 02:31
8M552685.D	AD27723-001	12/07/21 02:51
8M552686.D	AD27667-001	12/07/21 03:11
8M552687.D	AD27667-002	12/07/21 03:31
8M552688.D	AD27667-003	12/07/21 03:51
8M552689.D	AD27723-001(MS)	12/07/21 04:12
8M552690.D	AD27723-001(MSD	12/07/21 04:32
8M552691.D	MBS98151	12/07/21 04:52
8M552692.D	BLK	12/07/21 05:12
8M552693.D	AD27723-002	12/07/21 05:32
8M552694.D	AD27723-003	12/07/21 05:53
8M552695.D	AD27723-004	12/07/21 06:13
8M552696.D	AD27723-005	12/07/21 06:33
8M552697.D	AD27723-006	12/07/21 06:53
8M552698.D	AD27723-007	12/07/21 07:13
8M552699.D	AD27723-008	12/07/21 07:34
8M552700.D	AD27710-018(5X)	12/07/21 07:54
8M552701.D	STD	12/07/21 08:14
8M552702.D	STD	12/07/21 08:34
8M552703.D	BLK	12/07/21 08:54
8M552704.D	BLK	12/07/21 09:15
8M552705.D	BLK	12/07/21 09:35
8M552706.D	BLK	12/07/21 09:55
8M552707.D	BLK	12/07/21 10:15
8M552708.D	BLK	12/07/21 10:57

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-06-21\
Data File : 8M552664.D
Acq On : 06 Dec 2021 19:58
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_S1007.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Oct 07 15:40:24 2021



Spectrum Information: Average of 7.359 to 7.394 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	6222	PASS
75	95	30	60	55.1	15910	PASS
95	95	100	100	100.0	28896	PASS
96	95	5	9	7.2	2086	PASS
173	174	0.00	2	0.9	214	PASS
174	95	50	100	86.7	25046	PASS
175	174	5	9	6.6	1659	PASS
176	174	95	101	98.1	24576	PASS
177	176	5	9	6.7	1640	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M553142.D
Analysis Date: 12/15/21 10:07
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.365 to 7.378 min

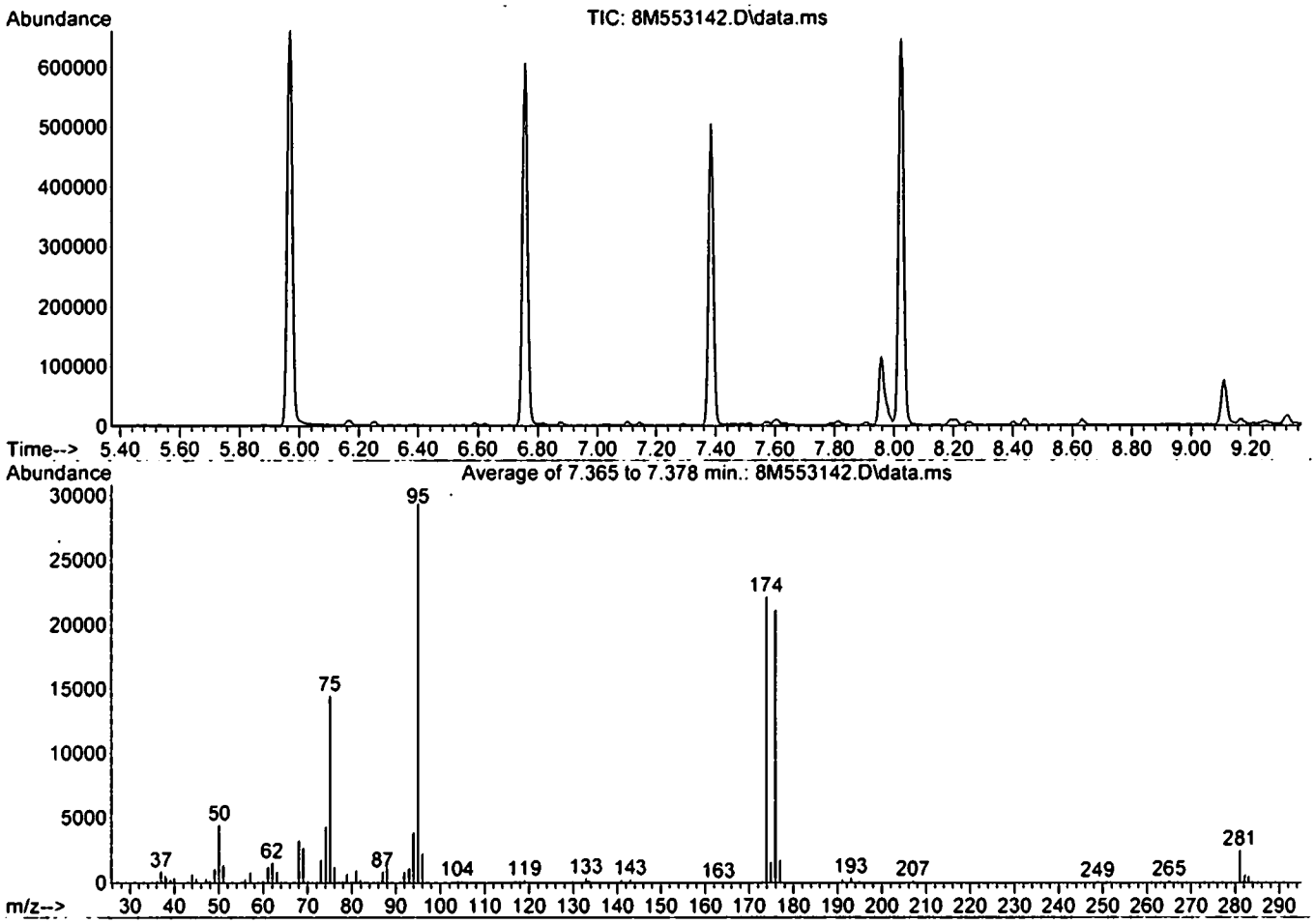
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.2	4461	PASS
75	95	30	60	49.4	14517	PASS
95	95	100	100	100.0	29373	PASS
96	95	5	9	7.8	2287	PASS
173	174	0.00	2	0.5	105	PASS
174	95	50	100	75.5	22173	PASS
175	174	5	9	7.3	1611	PASS
176	174	95	101	95.6	21199	PASS
177	176	5	9	8.3	1770	PASS

Data File	Sample Number	Analysis Date:
8M553143.D	STD	12/15/21 10:27
8M553144.D	50 PPB	12/15/21 10:47
8M553145.D	CAL @ 50 PPB	12/15/21 11:07
8M553146.D	BLK	12/15/21 11:27
8M553147.D	BLK	12/15/21 11:47
8M553148.D	BLK	12/15/21 12:08
8M553149.D	DAILY BLANK	12/15/21 12:28
8M553150.D	BLK	12/15/21 12:48
8M553151.D	BLK	12/15/21 13:08
8M553152.D	AD27903-002	12/15/21 13:28
8M553153.D	AD27822-001	12/15/21 13:48
8M553154.D	AD27848-011	12/15/21 14:09
8M553155.D	AD27848-012	12/15/21 14:29
8M553156.D	AD27848-025	12/15/21 14:49
8M553157.D	AD27848-026	12/15/21 15:09
8M553158.D	AD27823-002	12/15/21 15:30
8M553159.D	AD27862-001	12/15/21 15:50
8M553160.D	AD27849-014	12/15/21 16:10
8M553161.D	AD27887-001	12/15/21 16:30
8M553162.D	AD27738-001	12/15/21 16:50
8M553163.D	MBS98234	12/15/21 17:10
8M553164.D	AD27849-014(MS)	12/15/21 17:31
8M553165.D	AD27849-014(MSD	12/15/21 17:51
8M553169.D	AD27862-001	12/15/21 19:12
8M553170.D	AD27810-001	12/15/21 19:32
8M553171.D	AD27810-002	12/15/21 19:52
8M553172.D	AD27878-003	12/15/21 20:12
8M553173.D	AD27878-004	12/15/21 20:33
8M553174.D	AD27878-005	12/15/21 20:53
8M553175.D	AD27878-007	12/15/21 21:13
8M553176.D	AD27878-009	12/15/21 21:33

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Data File : 8M553142.D
Acq On : 15 Dec 2021 10:07
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_8\MethodQt\8M_S1206.M
Title : @GCMS_8,ug,624,8260
Last Update : Tue Dec 07 00:08:47 2021



Spectrum Information: Average of 7.365 to 7.378 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	4461	PASS
75	95	30	60	49.4	14517	PASS
95	95	100	100	100.0	29373	PASS
96	95	5	9	7.8	2287	PASS
173	174	0.00	2	0.5	105	PASS
174	95	50	100	75.5	22173	PASS
175	174	5	9	7.3	1611	PASS
176	174	95	101	95.6	21199	PASS
177	176	5	9	8.3	1770	PASS

1120701 0035

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4375	0.4360	0.3820	0.4201	0.4281	0.4910	0.4636	----	----	0.437	1.67	0.999	0.999	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.3577	0.4105	0.3355	0.3644	0.3776	0.4521	0.4253	----	----	0.389	1.66	0.998	0.998	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.3072	0.3404	0.3810	0.2933	0.3004	0.3605	0.3251	----	----	0.330	1.82	0.997	0.998	9.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1700	0.2107	0.1686	0.1704	0.2177	0.2552	0.2539	----	----	0.207	2.20	0.999	0.999	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.4498	0.4435	0.4228	0.3898	0.3833	0.4260	0.3654	----	----	0.412	1.92	0.994	0.998	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Qua	0.1869	0.1563	0.3396	0.1766	0.1785	0.2060	0.1880	----	----	0.205	2.29	0.998	0.999	30	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.6770	0.7111	0.5526	0.6468	0.6501	0.7529	0.6924	----	----	0.669	2.49	0.998	0.999	9.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1342	0.1456	0.1433	0.1245	0.1219	0.1335	0.1250	----	----	0.133	2.71	0.999	0.999	7.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.4533	0.4273	0.4235	0.4051	0.4066	0.4615	0.4140	----	----	0.427	2.75	0.997	0.999	5.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.3027	0.3163	0.2837	0.2878	0.2820	0.3290	0.2948	----	----	0.299	2.91	0.997	0.998	5.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.2399	0.2512	0.2156	0.2134	0.2188	0.2525	0.2367	----	----	0.233	3.31	0.998	0.999	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0289	0.0327	0.0274	0.0230	0.0202	0.0220	0.0186	----	----	0.0247	2.81	0.993	0.998	21		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Qua	0.0415	0.0564	0.0362	0.0332	0.0342	0.0372	0.0341	----	----	0.0390	3.49	0.998	0.999	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Avg	0.0485	0.0616	0.0370	0.0406	0.0377	0.0465	0.0432	----	----	0.0451	3.06	0.998	0.998	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0432	0.0475	0.0589	0.0337	0.0300	0.0348	0.0304	----	----	0.0398	2.93	0.995	0.998	27	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.8636	0.8639	0.7960	0.8158	0.8396	0.9629	0.8567	----	----	0.857	3.12	0.996	0.998	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0274	0.0301	0.0286	0.0250	0.0244	0.0269	0.0249	----	----	0.0268	2.71	0.998	0.999	8.0		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.2991	0.3336	0.2889	0.2942	0.3060	0.3572	0.3241	----	----	0.315	3.77	0.997	0.998	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Qua	0.2375	0.2598	0.2113	0.2273	0.3034	0.3691	0.3668	----	----	0.282	3.93	0.998	0.998	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.7641	0.8067	0.7089	0.7043	0.6163	0.6588	0.5654	----	----	0.689	2.92	0.994	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0715	0.0809	0.0585	0.0611	0.0741	0.0877	0.0861	----	----	0.0743	3.20	0.999	0.999	15	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.0064	0.0059	0.0066	0.0064	0.0053	0.0062	0.0058	0.0087	----	0.00644	3.51	0.998	0.999	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Qua	0.1613	0.0844	0.0707	0.2132	0.2917	0.3992	0.3976	----	----	0.231	3.89	0.997	0.997	59	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.2887	0.2982	0.2982	0.2812	0.2844	0.3262	0.2964	----	----	0.296	3.54	0.997	0.999	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.0064	0.0066	0.0062	0.0046	0.0060	0.0059	0.0060	----	----	0.00600	4.21	0.999	0.999	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.3501	0.3713	0.2811	0.3297	0.3309	0.3759	0.3487	----	----	0.341	4.35	0.998	0.999	9.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1449	0.1396	0.1315	0.1446	0.1495	0.1761	0.1589	----	----	0.149	4.52	0.997	0.998	9.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.0095	0.0128	0.0075	0.0102	0.0095	0.0122	0.0119	----	----	0.0106	4.35	0.998	0.998	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.0820	0.0859	0.0973	0.0644	0.0722	0.0883	0.0969	----	----	0.0839	4.37	0.996	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0013	0.0014	0.0013	0.0012	0.0013	0.0015	0.0013	----	----	0.00140	5.49	0.996	0.998	7.5		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.4304	0.4433	0.3805	0.4241	0.4265	0.4958	0.4432	----	----	0.435	4.80	0.996	0.998	7.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.4840	0.4783	0.4364	0.4563	0.4601	0.5339	0.4836	----	----	0.476	4.56	0.997	0.998	6.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2919	0.2924	0.2827	0.2894	0.2895	0.2996	0.2969	0.2782	0.2870	0.290	4.67	-1	-1	2.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.3877	0.3683	0.3038	0.3767	0.3911	0.4584	0.4128	----	----	0.386	4.75	0.997	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1161	0.1218	0.1120	0.1161	0.1192	0.1186	0.1096	0.1099	0.1175	0.116	4.89	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2827	0.3045	0.2574	0.2640	0.2718	0.3197	0.2915	----	----	0.285	4.93	0.997	0.998	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Qua	0.0467	0.0177	0.0257	0.0272	0.0543	0.0429	0.0431	----	----	0.0369	4.37	0.995	0.995	36	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Qua	0.1424	0.1265	0.0642	0.1875	0.3072	0.4461	0.4587	----	----	0.248	4.70	0.995	0.997	64	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.3470	0.3180	0.2543	0.3454	0.3856	0.4712	0.4415	----	----	0.366	4.81	0.998	0.998	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.1502	0.1743	0.1658	0.1401	0.1858	0.2265	0.2359	----	----	0.183	3.93	0.998	0.999	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.3128	0.3258	0.2431	0.2958	0.3012	0.3444	0.3169	----	----	0.306	5.57	0.998	0.999	10	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120701 0035

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.4657	0.4697	0.3933	0.4645	0.4911	0.5761	0.5224	----	----	0.483	5.42	0.997	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1167	0.1192	0.1072	0.1012	0.0945	0.0875	0.0710	----	----	0.0997	5.49	0.987	1.00	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.2006	0.2132	0.1745	0.2014	0.2027	0.2307	0.2070	----	----	0.204	5.42	0.997	0.999	8.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.3504	0.3618	0.3547	0.3413	0.3464	0.4007	0.3670	----	----	0.360	5.29	0.998	0.999	5.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.0185	1.0159	0.8735	0.9708	0.9680	1.1024	0.9850	0.9796	----	0.989	4.93	0.997	0.999	6.5	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Qua	0.0092	0.0188	0.0421	0.0053	0.0048	0.0051	0.0050	----	----	0.0130	4.98	0.999	0.999	110		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Qua	0.0492	0.0457	0.0348	0.0352	0.0585	0.0992	0.1132	----	----	0.0623	4.93	0.990	0.997	50	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.1152	0.1095	0.1412	0.1022	0.1093	0.1254	0.1101	----	----	0.116	5.46	0.995	0.998	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.2520	0.2502	0.2345	0.2474	0.2497	0.2849	0.2629	----	----	0.255	6.44	0.998	0.999	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0386	0.0221	0.0050	0.0528	0.0597	0.0659	0.0613	----	----	0.0437	5.75	0.998	0.999	52		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Qua	0.1771	0.1107	0.0768	0.2136	0.2674	0.3254	0.3011	----	----	0.210	5.81	0.997	0.998	45	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Qua	0.0948	0.0667	0.0388	0.1264	0.1816	0.2385	0.2384	----	----	0.141	6.10	0.997	0.998	57	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.1221	0.1201	0.1141	0.1196	0.1194	0.1397	0.1307	----	----	0.124	6.13	0.998	0.999	7.0	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1945	0.2048	0.1726	0.1823	0.1756	0.1908	0.1702	----	----	0.184	6.21	0.997	0.999	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Qua	0.1038	0.1194	0.1369	0.0816	0.0728	0.0662	0.0591	0.1504	0.1052	0.0995	6.52	0.996	1.00	32	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.2613	0.2451	0.2296	0.2615	0.2585	0.2829	0.2495	----	----	0.256	6.31	0.996	0.999	6.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.0893	0.1021	0.0987	0.0811	0.0853	0.1027	0.0958	----	----	0.0936	5.88	0.998	0.998	9.0	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0619	0.0685	0.0680	0.0485	0.0544	0.0672	0.0653	----	----	0.0620	6.33	0.998	0.998	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.3504	0.3545	0.3011	0.3325	0.3475	0.3944	0.3533	----	----	0.348	6.31	0.997	0.999	8.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.2338	1.2140	1.2692	1.2341	1.2427	1.2218	1.2064	1.2222	1.2202	1.23	5.97	-1	-1	1.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7808	0.7714	0.8085	0.7846	0.7960	0.8844	0.7918	0.8726	----	0.811	6.01	0.997	0.999	5.3	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2790	0.2854	0.2696	0.2861	0.2813	0.3213	0.2970	----	----	0.289	6.81	0.998	0.999	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.8434	0.8560	0.8156	0.8093	0.8276	0.9135	0.8323	----	----	0.843	6.77	0.998	0.999	4.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.3049	0.2787	0.3014	0.3084	0.3485	0.3160	0.4625	----	----	0.332	7.03	0.976	0.998	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.2122	0.2246	0.3450	0.2186	0.2663	0.2335	0.2320	----	----	0.248	7.14	0.999	0.999	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.2680	0.2660	0.2672	0.2531	0.2642	0.2263	0.2806	----	----	0.261	7.22	0.991	0.998	6.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.7785	0.8403	0.8616	0.8012	0.8147	0.6902	0.7582	0.6592	----	0.776	6.82	0.998	0.998	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.3944	0.3624	0.4213	0.3619	0.3560	0.2933	0.3827	----	----	0.367	7.44	0.986	0.997	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7456	0.7338	0.7313	0.7461	0.7646	0.5761	0.7600	0.7338	0.7336	0.725	7.38	-1	-1	7.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.4751	1.3561	1.1975	1.5059	1.5454	1.2687	1.6109	----	----	1.42	7.10	0.989	0.997	11	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	1.0697	1.0091	0.9571	1.0710	1.1032	0.9095	1.1518	1.0741	1.1690	1.06	6.88	0.990	0.997	8.1	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0015	0.9993	0.8820	1.0029	1.0099	0.8386	1.1052	0.9420	----	0.973	7.10	0.987	0.997	8.6	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1753	0.1729	0.1204	0.1581	0.1848	0.1692	0.1818	----	----	0.166	7.46	0.999	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.2433	1.1892	1.1942	1.1965	1.2021	1.2928	0.9281	----	----	1.18	7.99	0.968	0.997	9.9	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.2016	1.1942	1.1711	1.1424	1.1466	1.2538	1.2194	----	----	1.19	8.04	1.00	1.00	3.4	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.0453	0.9923	0.9770	1.0215	1.0044	1.0490	0.8605	----	----	0.993	8.26	0.990	0.999	6.5	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.9385	2.7628	2.5219	2.9635	3.0760	2.5856	2.8987	2.5047	----	2.78	7.29	0.997	0.998	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0031	0.0109	0.0181	0.0027	0.0018	0.0018	0.0021	----	----	0.00582	7.35	0.990	0.999	110		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.9993	0.9241	0.8642	1.0091	1.0625	0.9342	1.2679	----	----	1.01	7.46	0.984	0.998	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.4282	0.3887	0.4587	0.3758	0.3808	0.3334	0.4265	----	----	0.399	7.47	0.988	0.998	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.7322	1.6716	1.8141	1.6908	1.7114	1.6091	1.4798	----	----	1.67	7.58	0.998	1.00	6.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120701 0037

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.6880	2.4558	2.3274	2.7321	2.8171	2.6022	2.4231	----	----	2.58	7.57	0.998	1.00	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.5935	1.5367	1.6281	1.5249	1.5142	1.6588	1.4868	----	----	1.56	7.64	0.997	0.999	4.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	3.3761	3.1856	3.0796	3.4125	3.4623	2.9792	3.2974	3.2968	----	3.26	7.51	0.998	0.999	5.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3641	1.3431	1.3553	1.3401	1.3317	1.1336	1.4261	----	----	1.33	7.48	0.990	0.998	6.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	2.2982	2.1334	1.9935	2.3419	2.2939	2.3641	2.2269	2.1137	----	2.22	7.60	0.999	1.00	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Qua	0.3563	0.3315	0.5739	0.3534	0.3495	0.3428	0.3099	0.4867	----	0.388	7.60	0.997	1.00	24	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	2.5127	2.4309	2.2947	2.5213	2.6027	2.9295	1.9730	2.4274	----	2.46	7.79	0.956	0.994	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	2.1942	1.9985	1.8951	2.2169	2.2632	2.4791	1.5633	2.0680	----	2.08	7.81	0.938	0.993	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	3.2916	2.9347	2.6921	3.2592	3.3240	3.6853	2.0574	3.1892	----	3.05	7.91	0.898	0.989	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	2.8034	3.4082	4.2268	2.7121	2.7942	3.0493	----	7.1902	----	3.74	7.98	0.998	1.00	43		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
n-Butylbenzene	1	0	Avg	2.7917	2.5688	2.5579	2.8713	2.9790	2.8801	2.0366	2.9114	----	2.70	8.20	0.965	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.3859	1.2693	1.4109	1.3974	1.4976	1.6475	1.2122	----	----	1.40	8.19	0.973	0.996	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Qua	1.3884	1.2014	1.1364	1.6061	1.8339	2.2219	----	----	----	1.56	8.63	0.994	1.00	26		20.00	5.00	2.00	50.00	100.0	250.0			
1,2-Dibromo-3-Chloro	1	0	Avg	0.0729	0.0751	0.0655	0.0664	0.0687	0.0832	0.0399	----	----	0.0674	8.69	0.823	0.976	20	0.05 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0015	0.0055	0.0129	0.0010	0.0038	0.0068	0.0087	----	----	0.00578	9.11	0.981	0.997	73		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.5024	0.4909	0.5415	0.5025	0.5221	0.5011	0.5794	----	----	0.520	9.25	0.996	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.5000	0.4945	0.4535	0.5316	0.5843	0.5720	0.5085	----	----	0.521	9.17	0.996	1.00	8.8	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.3992	0.3912	0.4014	0.4164	0.4602	0.4401	0.4366	----	----	0.421	9.46	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.6278	0.5799	1.1293	0.7232	0.8646	0.9070	0.9204	0.8519	----	0.826	9.32	1.00	1.00	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: 8M553145.D Instrument: GCMS 8

Cont Calibration Date/Time 12/15/2021 11:07:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	27.79	50	20	0.1	0.437	0.243	44.42	C1
Dichlorodifluoromethane	1	0		1.66	10.12	50	20	0.1	0.389	0.079	79.76	C1
Chloromethane	1	0		1.82	23.77	50	20	0.1	0.330	0.157	52.46	C1
Bromomethane	1	0		2.20	40.86	50	20	0.1	0.207	0.169	18.28	
Vinyl Chloride	1	0		1.92	29.30	50	20	0.1	0.412	0.241	41.40	C1
Chloroethane	1	0		2.28	31.63	50	20	0.1	0.205	0.130	36.73	C1
Trichlorofluoromethane	1	0		2.49	30.87	50	20	0.1	0.669	0.413	38.26	C1
Ethyl ether	1	0		2.71	40.04	50	20	0.5	0.133	0.106	19.92	
Furan	1	0		2.75	33.95	50	20	0.5	0.427	0.290	32.10	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.91	35.05	50	20	0.1	0.300	0.210	29.89	C1
Methylene Chloride	1	0		3.31	45.32	50	20	0.1	0.233	0.211	9.36	
Acrolein	1	0		2.81	152.92	250	20		0.025	0.015	38.83	C1
Acrylonitrile	1	0		3.50	41.20	50	20		0.039	0.031	17.59	
Iodomethane	1	0		3.06	47.55	50	20		0.045	0.043	4.90	
Acetone	1	0		2.94	135.62	250	20	0.1	0.040	0.020	45.75	C1
Carbon Disulfide	1	0		3.12	38.48	50	20	0.1	0.857	0.659	23.04	C1
t-Butyl Alcohol	1	0		2.71	194.52	250	20		0.027	0.021	22.19	C1
n-Hexane	1	0		3.76	49.42	50	20		0.315	0.311	1.16	
Di-isopropyl-ether	1	0		3.92	41.97	50	20		0.282	0.282	16.07	
1,1-Dichloroethene	1	0		2.92	28.50	50	20	0.1	0.689	0.393	42.99	C1
Methyl Acetate	1	0		3.20	42.40	50	20	0.1	0.074	0.063	15.19	
Methyl-t-butyl ether	1	0		3.50	41.31	50	20	0.1	0.006	0.005	17.38	
1,1-Dichloroethane	1	0		3.89	46.00	50	20	0.2	0.231	0.320	8.01	
trans-1,2-Dichloroethene	1	0		3.54	51.79	50	20	0.1	0.296	0.307	3.58	
Ethyl-t-butyl ether	1	0		4.21	57.81	50	20	0.5	0.006	0.007	15.62	
cis-1,2-Dichloroethene	1	0		4.35	51.72	50	20	0.1	0.341	0.353	3.45	
Bromochloromethane	1	0		4.52	44.80	50	20		0.149	0.134	10.40	
2,2-Dichloropropane	1	0		4.35	41.53	50	20		0.011	0.009	16.93	
Ethyl acetate	1	0		4.38	42.84	50	20		0.084	0.072	14.32	
1,4-Dioxane	1	0		5.49	2477.22	2500	20		0.001	0.001	0.91	
1,1-Dichloropropene	1	0		4.80	50.10	50	20		0.435	0.436	0.20	
Chloroform	1	0		4.56	52.65	50	20	0.2	0.476	0.501	5.30	
Dibromofluoromethane	1	0	S	4.67	26.14	75	**		0.290	0.252	12.88	
Cyclohexane	1	0		4.75	49.57	50	20	0.1	0.386	0.382	0.86	
1,2-Dichloroethane-d4	1	0	S	4.89	22.90	75	**		0.116	0.088	23.67	
1,2-Dichloroethane	1	0		4.93	43.68	50	20	0.1	0.285	0.249	12.65	
2-Butanone	1	0		4.37	31.58	50	20	0.1	0.037	0.028	36.83	C1
1,1,1-Trichloroethane	1	0		4.70	41.28	50	20	0.1	0.248	0.304	17.44	
Carbon Tetrachloride	1	0		4.81	48.98	50	20	0.1	0.366	0.359	2.04	
Vinyl Acetate	1	0		3.92	42.08	50	20		0.183	0.154	15.84	
Bromodichloromethane	1	0		5.57	53.34	50	20	0.2	0.306	0.326	6.69	
Methylcyclohexane	1	0		5.42	54.43	50	20	0.1	0.483	0.526	8.86	
Dibromomethane	1	0		5.49	56.89	50	20		0.100	0.113	13.77	
1,2-Dichloropropane	1	0		5.42	56.70	50	20	0.1	0.204	0.232	13.39	
Trichloroethene	1	0		5.29	51.93	50	20	0.2	0.360	0.374	3.86	
Benzene	1	0		4.93	56.96	50	20	0.5	0.989	1.127	13.92	
tert-Amyl methyl ether	1	0		4.97	58.18	50	20		0.013	0.006	16.36	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.93	40.31	50	20	0.5	0.062	0.058	19.38	
Methyl methacrylate	1	0		5.46	40.46	50	20	0.5	0.116	0.094	19.09	
Dibromochloromethane	1	0		6.44	48.61	50	20	0.1	0.255	0.247	2.77	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M553145.D **Instrument:** GCMS 8

Cont Calibration Date/Time 12/15/2021 11:07:00 **Method:** EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.75	40.89	50	20		0.044	0.053	18.22	
cis-1,3-Dichloropropene	1	0		5.81	47.78	50	20	0.2	0.210	0.295	4.44	
trans-1,3-Dichloropropene	1	0		6.10	43.49	50	20	0.1	0.141	0.182	13.02	
Ethyl methacrylate	1	0		6.13	43.31	50	20	0.5	0.124	0.107	13.37	
1,1,2-Trichloroethane	1	0		6.21	51.38	50	20	0.1	0.184	0.190	2.76	
1,2-Dibromoethane	1	0		6.51	61.93	50	20	0.1	0.100	0.091	23.86	C1
1,3-Dichloropropane	1	0		6.31	56.17	50	20		0.256	0.287	12.33	
4-Methyl-2-Pentanone	1	0		5.88	41.02	50	20	0.1	0.094	0.077	17.96	
2-Hexanone	1	0		6.33	40.34	50	20	0.1	0.062	0.050	19.32	
Tetrachloroethene	1	0		6.31	47.07	50	20	0.2	0.348	0.327	5.86	
Toluene-d8	1	0	S	5.97	28.62	75	**		1.229	1.173	4.59	
Toluene	1	0		6.01	50.54	50	20	0.4	0.811	0.820	1.08	
1,1,1,2-Tetrachloroethane	1	0		6.81	51.99	50	20		0.289	0.300	3.98	
Chlorobenzene	1	0		6.77	52.32	50	20	0.5	0.843	0.882	4.63	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.03	59.40	50	20	0.5	0.332	0.394	18.80	
n-Amyl acetate	1	0		7.14	55.63	50	20	0.5	0.248	0.275	11.27	
Bromoform	1	0		7.22	48.99	50	20	0.1	0.261	0.256	2.02	
Ethylbenzene	1	0		6.82	54.07	50	20	0.1	0.776	0.839	8.14	
1,1,2,2-Tetrachloroethane	1	0		7.44	49.46	50	20	0.1	0.367	0.363	1.08	
Bromofluorobenzene	1	0	S	7.38	30.91	75	**		0.725	0.747	3.03	
Styrene	1	0		7.10	58.54	50	20	0.3	1.423	1.666	17.08	
m&p-Xylenes	1	0		6.88	107.46	100	20	0.1	1.057	1.136	7.46	
o-Xylene	1	0		7.10	55.58	50	20	0.3	0.973	1.081	11.17	
trans-1,4-Dichloro-2-butene	1	0		7.46	38.71	50	20		0.166	0.129	22.59	C1
1,3-Dichlorobenzene	1	0		7.99	53.49	50	20	0.6	1.178	1.260	6.98	
1,4-Dichlorobenzene	1	0		8.04	51.82	50	20	0.5	1.190	1.233	3.64	
1,2-Dichlorobenzene	1	0		8.25	53.24	50	20	0.4	0.993	1.057	6.47	
Isopropylbenzene	1	0		7.29	52.69	50	20	0.1	2.782	2.931	5.38	
Cyclohexanone	1	0		7.36	311.78	250	20		0.006	0.002	24.71	C1
Camphene	1	0		7.46	46.43	50	20		1.009	0.937	7.15	
1,2,3-Trichloropropane	1	0		7.47	46.24	50	20		0.399	0.369	7.53	
2-Chlorotoluene	1	0		7.58	51.91	50	20		1.673	1.737	3.81	
p-Ethyltoluene	1	0		7.57	55.68	50	20		2.578	2.871	11.37	
4-Chlorotoluene	1	0		7.64	52.01	50	20		1.563	1.626	4.01	
n-Propylbenzene	1	0		7.51	51.76	50	20		3.261	3.376	3.51	
Bromobenzene	1	0		7.48	44.06	50	20		1.328	1.170	11.88	
1,3,5-Trimethylbenzene	1	0		7.60	50.79	50	20		2.221	2.256	1.57	
Butyl methacrylate	1	0		7.60	44.01	50	20	0.5	0.388	0.321	11.98	
t-Butylbenzene	1	0		7.79	50.07	50	20		2.462	2.465	0.13	
1,2,4-Trimethylbenzene	1	0		7.81	54.75	50	20		2.085	2.283	9.51	
sec-Butylbenzene	1	0		7.91	52.08	50	20		3.054	3.181	4.16	
4-Isopropyltoluene	1	0		7.98	50.57	50	20		3.741	2.754	1.15	
n-Butylbenzene	1	0		8.21	52.35	50	20		2.700	2.826	4.69	
p-Diethylbenzene	1	0		8.19	54.85	50	20		1.403	1.539	9.70	
1,2,4,5-Tetramethylbenzene	1	0		8.63	58.87	50	20		1.565	1.986	17.74	
1,2-Dibromo-3-Chloropropane	1	0		8.69	46.19	50	20	0.05	0.067	0.062	7.62	
Camphor	1	0		9.11	1631.12	500	20		0.006	0.018	226.22	C1
Hexachlorobutadiene	1	0		9.25	41.48	50	20		0.520	0.431	17.04	
1,2,4-Trichlorobenzene	1	0		9.17	61.25	50	20	0.2	0.521	0.638	22.49	C1
1,2,3-Trichlorobenzene	1	0		9.46	59.16	50	20		0.421	0.498	18.33	
Naphthalene	1	0		9.32	57.37	50	20		0.826	0.996	14.74	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 8M552670.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 21:58

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	258559	5.09	218739	6.76	120646	8.02								
Eval File Area Limit:	129280-517118		109370-437478		60323-241292									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample						
8M552666.D	CAL @ 0.5 PPB	247232	5.09	209128	6.76	107268	8.02
8M552667.D	CAL @ 1 PPB	277907	5.09	231492	6.76	123463	8.02
8M552668.D	CAL @ 5 PPB	239805	5.09	202851	6.76	112416	8.02
8M552669.D	CAL @ 2 PPB	281604	5.09	230297	6.76	121898	8.02
8M552670.D	CAL @ 20 PPB	258559	5.09	218739	6.76	120646	8.02
8M552671.D	CAL @ 50 PPB	278738	5.09	235354	6.76	131125	8.02
8M552672.D	CAL @ 100 PPB	281452	5.09	237589	6.76	133001	8.02
8M552673.D	CAL @ 250 PPB	250171	5.09	217045	6.76	161858	8.02
8M552674.D	CAL @ 500 PPB	283417	5.09	248469	6.76	158202	8.02
8M552675.D	BLK	360944	5.09	296132	6.76	153651	8.02
8M552676.D	BLK	327211	5.09	274572	6.76	143167	8.02
8M552677.D	BLK	328460	5.09	262987	6.76	136634	8.02
8M552678.D	BLK	305557	5.09	252574	6.76	130979	8.02
8M552679.D	ICV	304622	5.09	253401	6.76	143455	8.02
8M552680.D	BLK	82497 A	5.04	116301	6.74	105391	8.02
8M552681.D	STD	289843	5.07	234298	6.75	124872	8.02
8M552682.D	BLK	310732	5.09	259116	6.76	137405	8.02
8M552683.D	BLK	323643	5.09	267090	6.76	142644	8.02
8M552684.D	DAILY BLANK	299956	5.09	248009	6.76	130013	8.02
8M552685.D	AD27723-001	308323	5.09	257376	6.76	133377	8.02
8M552686.D	AD27667-001	381632	5.09	318857	6.76	169752	8.02
8M552687.D	AD27667-002	378468	5.09	316245	6.76	161912	8.02
8M552688.D	AD27667-003	345311	5.09	298426	6.76	151441	8.02
8M552689.D	AD27723-001(MS)	367898	5.09	306510	6.76	175556	8.02
8M552690.D	AD27723-001(MSD)	398909	5.09	341042	6.76	188039	8.02
8M552691.D	MBS98151	285333	5.09	243030	6.76	134143	8.02
8M552692.D	BLK	331326	5.09	270530	6.76	142765	8.02
8M552693.D	AD27723-002	373681	5.09	316467	6.76	163702	8.02
8M552694.D	AD27723-003	385004	5.09	333008	6.76	170101	8.02
8M552695.D	AD27723-004	334171	5.09	284745	6.76	149466	8.02
8M552696.D	AD27723-005	369556	5.09	319286	6.76	169602	8.02
8M552697.D	AD27723-006	336479	5.09	287107	6.76	195412	8.02

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 8M552670.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 21:58

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	258559	5.09	218739	6.76	120646	8.02								
Eval File Area Limit:	129280-517118		109370-437478		60323-241292									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample						
8M552698.D	AD27723-007	393694	5.09	327309	6.76	173197	8.02
8M552699.D	AD27723-008	317472	5.09	270160	6.76	139834	8.02
8M552700.D	AD27710-018(5X)	327600	5.09	273099	6.76	122439	8.02
8M552701.D	STD	278049	5.09	244390	6.76	131288	8.02
8M552702.D	STD	415012	5.09	355382	6.76	190720	8.02
8M552703.D	BLK	553523 A	5.09	463464 A	6.76	241002	8.02
8M552704.D	BLK	504807	5.09	411506	6.76	210772	8.02
8M552705.D	BLK	394569	5.09	425255	6.76	178968	8.02
8M552706.D	BLK	399689	5.09	325495	6.76	197919	8.02
8M552707.D	BLK	376498	5.09	315483	6.76	163729	8.02
8M552708.D	BLK	57290 A	5.06	75482 A	6.75	60056 A	8.02

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553145.D Method: EPA 8260D

Analysis Date/Time: 12/15/21 11:07

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	294270	5.09	273847	6.76	150047	8.02								
Eval File Area Limit:	147135-588540		136924-547694		75024-300094									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample						
8M553143.D	STD	316279	5.09	289550	6.76	157949	8.02
8M553144.D	50 PPB	297498	5.09	274546	6.76	150677	8.02
8M553146.D	BLK	286309	5.09	270583	6.76	147662	8.02
8M553147.D	BLK	311248	5.09	280950	6.76	149710	8.02
8M553148.D	BLK	302117	5.09	262047	6.76	136052	8.02
8M553149.D	DAILY BLANK	294932	5.09	278184	6.76	147050	8.02
8M553150.D	BLK	316202	5.09	287723	6.76	155186	8.02
8M553151.D	BLK	282808	5.09	262074	6.76	141999	8.02
8M553152.D	AD27903-002	259266	5.09	242621	6.76	129695	8.02
8M553153.D	AD27822-001	302169	5.09	267154	6.76	128796	8.02
8M553154.D	AD27848-011	318983	5.09	300503	6.76	160466	8.02
8M553155.D	AD27848-012	255513	5.09	242516	6.76	130835	8.02
8M553156.D	AD27848-025	299185	5.09	283042	6.76	152135	8.02
8M553157.D	AD27848-026	276906	5.09	259709	6.76	143272	8.02
8M553158.D	AD27823-002	300685	5.09	278570	6.76	130929	8.02
8M553159.D	AD27862-001	276583	5.09	257851	6.76	123816	8.02
8M553160.D	AD27849-014	328175	5.08	310484	6.76	163522	8.02
8M553161.D	AD27887-001	290010	5.09	251291	6.76	106693	8.02
8M553162.D	AD27738-001	379217	5.09	366466	6.76	203718	8.02
8M553163.D	MBS98234	288643	5.09	277173	6.76	150719	8.02
8M553164.D	AD27849-014(MS)	289057	5.09	265841	6.76	140333	8.03
8M553165.D	AD27849-014(MSD)	265167	5.09	249848	6.76	132081	8.02
8M553169.D	AD27862-001	232525	5.09	211972	6.76	87476	8.02
8M553170.D	AD27810-001	128142A	5.09	125210A	6.76	67272A	8.02
8M553171.D	AD27810-002	258394	5.09	248706	6.76	149066	8.02
8M553172.D	AD27878-003	240542	5.09	229665	6.76	118177	8.02
8M553173.D	AD27878-004	264999	5.09	256303	6.76	141532	8.02
8M553174.D	AD27878-005	0A	0.00R	0A	0.00R	0A	0.00R
8M553175.D	AD27878-007	106474A	5.09	106527A	6.76	59448A	8.02
8M553176.D	AD27878-009	258076	5.09	237418	6.76	114608	8.02

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27738-001
Client Id: SB-008 SS
Data File: 9M110157.D
Analysis Date: 12/16/21 15:57
Date Rec/Extracted: 12/07/21-12/15/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.038	U	50-32-8	Benzo[a]pyrene	0.038	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.038	U	205-99-2	Benzo[b]fluoranthene	0.038	U
122-66-7	1,2-Diphenylhydrazine	0.038	U	191-24-2	Benzo[g,h,i]perylene	0.038	U
123-91-1	1,4-Dioxane	0.019	U	207-08-9	Benzo[k]fluoranthene	0.038	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.038	U	100-51-6	Benzyl alcohol	0.038	U
95-95-4	2,4,5-Trichlorophenol	0.038	U	111-91-1	bis(2-Chloroethoxy)methan	0.038	U
88-06-2	2,4,6-Trichlorophenol	0.038	U	111-44-4	bis(2-Chloroethyl)ether	0.0096	U
120-83-2	2,4-Dichlorophenol	0.014	U	108-60-1	bis(2-chloroisopropyl)ether	0.038	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.038	U
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.038	U
121-14-2	2,4-Dinitrotoluene	0.038	U	105-60-2	Caprolactam	0.038	U
606-20-2	2,6-Dinitrotoluene	0.038	U	86-74-8	Carbazole	0.038	U
91-58-7	2-Chloronaphthalene	0.038	U	218-01-9	Chrysene	0.038	U
95-57-8	2-Chlorophenol	0.038	U	53-70-3	Dibenzo[a,h]anthracene	0.038	U
91-57-6	2-Methylnaphthalene	0.038	U	132-64-9	Dibenzofuran	0.0097	U
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.038	U
88-74-4	2-Nitroaniline	0.038	U	131-11-3	Dimethylphthalate	0.038	U
88-75-5	2-Nitrophenol	0.038	U	84-74-2	Di-n-butylphthalate	0.044	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.038	U
91-94-1	3,3'-Dichlorobenzidine	0.038	U	206-44-0	Fluoranthene	0.038	U
99-09-2	3-Nitroaniline	0.038	U	86-73-7	Fluorene	0.038	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.038	U
101-55-3	4-Bromophenyl-phenylether	0.038	U	87-68-3	Hexachlorobutadiene	0.038	U
59-50-7	4-Chloro-3-methylphenol	0.038	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.038	U
7005-72-3	4-Chlorophenyl-phenylether	0.038	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.038	U
100-01-6	4-Nitroaniline	0.038	U	78-59-1	Isophorone	0.038	U
100-02-7	4-Nitrophenol	0.038	U	91-20-3	Naphthalene	0.011	U
83-32-9	Acenaphthene	0.038	U	98-95-3	Nitrobenzene	0.038	U
208-96-8	Acenaphthylene	0.038	U	62-75-9	N-Nitrosodimethylamine	0.047	U
98-86-2	Acetophenone	0.038	U	621-64-7	N-Nitroso-di-n-propylamine	0.014	U
120-12-7	Anthracene	0.038	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.038	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.42	U	85-01-8	Phenanthrene	0.038	U
92-87-5	Benzidine	0.067	U	108-95-2	Phenol	0.038	U
56-55-3	Benzo[a]anthracene	0.038	U	129-00-0	Pyrene	0.038	U

Worksheet #: 621892

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

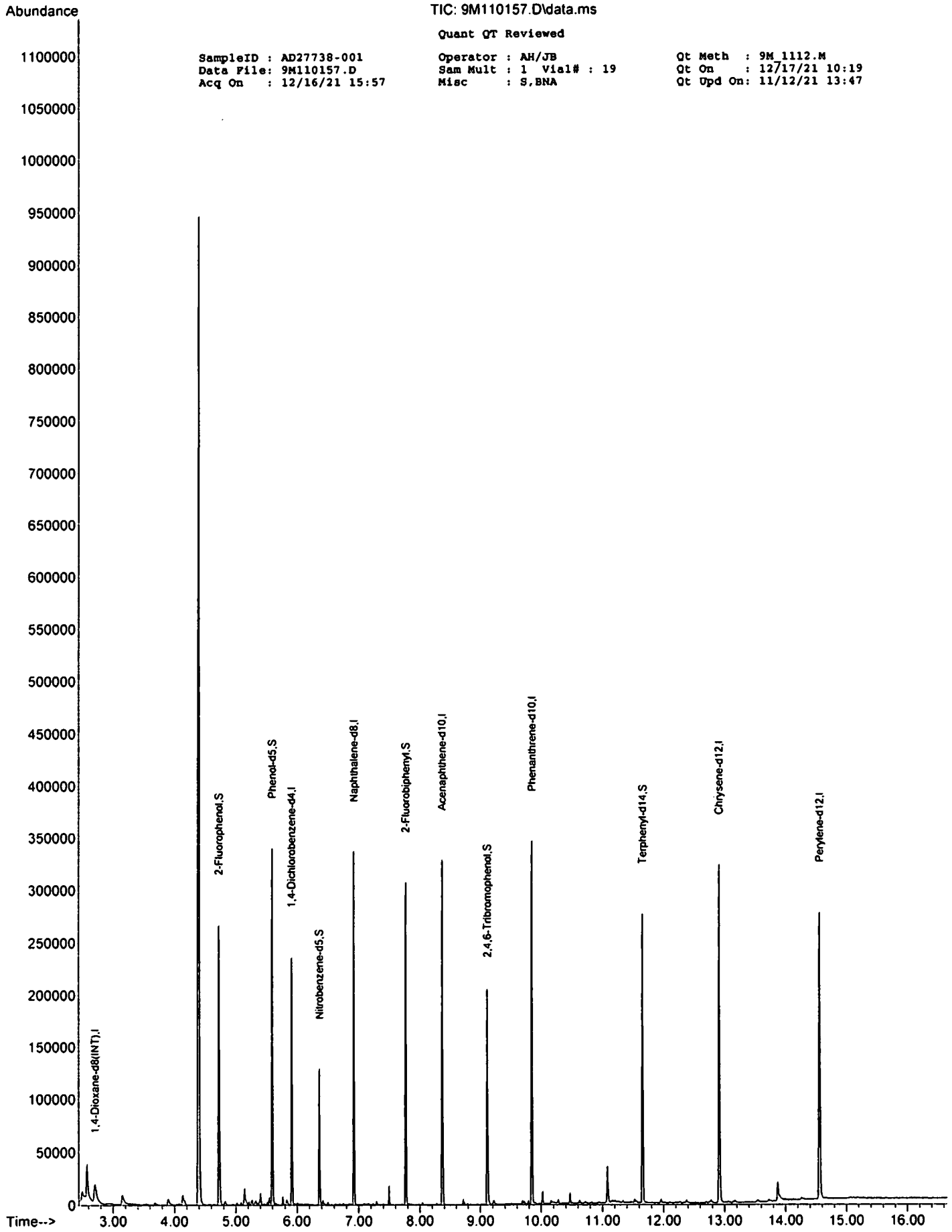
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD27738-001 Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110157.D Sam Mult : 1 Vial# : 19 Qt On : 12/17/21 10:19
Acq On : 12/16/21 15:57 Misc : S,BNA Qt Upd On: 11/12/21 13:47

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-16-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.707	96	20586	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.913	152	34947	40.00	ng	-0.02
31) Naphthalene-d8	6.925	136	135344	40.00	ng	-0.01
50) Acenaphthene-d10	8.366	164	68464	40.00	ng	-0.02
77) Phenanthrene-d10	9.848	188	130602	40.00	ng	0.00
91) Chrysene-d12	12.913	240	112743	40.00	ng	0.00
103) Perylene-d12	14.560	264	118547	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.725	112	83610	70.51	ng	0.00
Spiked Amount 100.000			Recovery = 70.51%			
16) Phenol-d5	5.595	99	111228	73.22	ng	0.00
Spiked Amount 100.000			Recovery = 73.22%			
32) Nitrobenzene-d5	6.366	128	18050	37.66	ng	-0.01
Spiked Amount 50.000			Recovery = 75.32%			
55) 2-Fluorobiphenyl	7.772	172	89808	35.34	ng	-0.01
Spiked Amount 50.000			Recovery = 70.68%			
80) 2,4,6-Tribromophenol	9.119	330	25142	74.50	ng	0.00
Spiked Amount 100.000			Recovery = 74.50%			
94) Terphenyl-d14	11.660	244	84632	44.93	ng	0.00
Spiked Amount 50.000			Recovery = 89.86%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110157.D\data.ms
Quant QT Reviewed
SampleID : AD27738-001
Data File: 9M110157.D
Acq On : 12/16/21 15:57
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : S,BNA
Qt Meth : 9M_1112.M
Qt On : 12/17/21 10:19
Qt Upd On: 11/12/21 13:47
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95887
Client Id:
Data File: 9M110142.D
Analysis Date: 12/16/21 09:58
Date Rec/Extracted: NA-12/15/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 621892

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

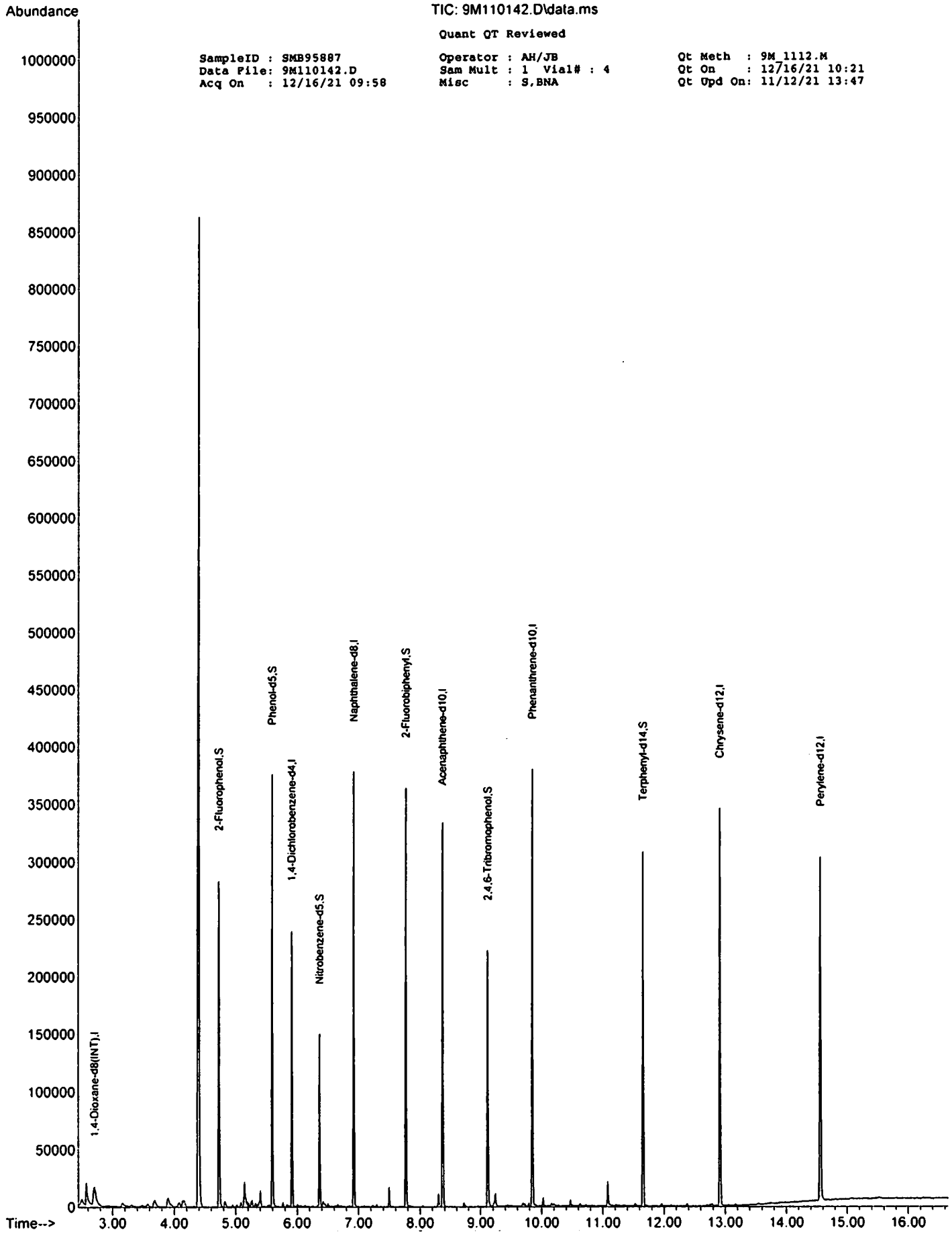
Quantitation Report (QT Reviewed)

SampleID : SMB95887 Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110142.D Sam Mult : 1 Vial# : 4 Qt On : 12/16/21 10:21
Acq On : 12/16/21 09:58 Misc : S,BNA Qt Upd On: 11/12/21 13:47

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-16-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.707	96	20544	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.913	152	35201	40.00	ng	-0.02
31) Naphthalene-d8	6.925	136	142807	40.00	ng	-0.01
50) Acenaphthene-d10	8.366	164	70574	40.00	ng	-0.02
77) Phenanthrene-d10	9.848	188	135897	40.00	ng	0.00
91) Chrysene-d12	12.913	240	119370	40.00	ng	0.00
103) Perylene-d12	14.560	264	127048	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.725	112	89113	75.30	ng	0.00
Spiked Amount 100.000			Recovery =	75.30%		
16) Phenol-d5	5.595	99	118470	78.15	ng	0.00
Spiked Amount 100.000			Recovery =	78.15%		
32) Nitrobenzene-d5	6.366	128	20340	40.02	ng	-0.01
Spiked Amount 50.000			Recovery =	80.04%		
55) 2-Fluorobiphenyl	7.772	172	99282	37.91	ng	-0.01
Spiked Amount 50.000			Recovery =	75.82%		
80) 2,4,6-Tribromophenol	9.119	330	26488	75.38	ng	0.00
Spiked Amount 100.000			Recovery =	75.38%		
94) Terphenyl-d14	11.660	244	91316	45.79	ng	0.00
Spiked Amount 50.000			Recovery =	91.58%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed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TIC: 9M110142.D\data.ms
Quant QT Reviewed
SampleID : SMB95887
Data File: 9M110142.D
Acq On : 12/16/21 09:58
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : S,BNA
Qt Meth : 9M_1112.M
Qt On : 12/16/21 10:21
Qt Upd On: 11/12/21 13:47
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M110142.D	SMB95887	S	12/16/21 09:58	1		75	78	80	76	75	92
9M110157.D	AD27738-001	S	12/16/21 15:57	1		71	73	75	71	75	90
9M110141.D	SMB95887(MS)	S	12/16/21 09:35	1		78	80	88	83	88	94
9M110151.D	AD27892-004(40X)	S	12/16/21 13:38	40	SD	0*	0*	0*	0*	0*	0*
9M110155.D	AD27892-004(40X)(MS)	S	12/16/21 15:10	40	SD	0*	0*	0*	0*	0*	0*
9M110156.D	AD27892-004(40X)(MS	S	12/16/21 15:33	40	SD	0*	0*	0*	0*	0*	0*

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95887

Data File	Sample ID:	Analysis Date
Spike or Dup: 9M110141.D	SMB95887(MS)	12/16/2021 9:35:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	22.6541	0	50	45	25	150
Pyridine	1	40.3693	0	50	81	1	150
N-Nitrosodimethylamine	1	37.3412	0	50	75	50	130
Benzaldehyde	1	33.4896	0	50	67	20	220
Aniline	1	17.8348	0	50	36	20	150
Pentachloroethane	1	33.7101	0	50	67	50	130
bis(2-Chloroethyl)ether	1	33.3963	0	50	67	50	130
Phenol	1	66.1364	0	100	66	20	150
2-Chlorophenol	1	67.6798	0	100	68	50	130
N-Decane	1	33.0743	0	50	66	20	130
1,3-Dichlorobenzene	1	33.2701	0	50	67	60	130
1,4-Dichlorobenzene	1	36.0809	0	50	72	60	130
1,2-Dichlorobenzene	1	35.231	0	50	70	50	130
Benzyl alcohol	1	38.5091	0	50	77	20	130
bis(2-chloroisopropyl)ether	1	35.9918	0	50	72	40	130
2-Methylphenol	1	70.6969	0	100	71	50	130
Acetophenone	1	38.7422	0	50	77	50	130
Hexachloroethane	1	36.6711	0	50	73	50	130
N-Nitroso-di-n-propylamine	1	37.4969	0	50	75	40	130
3&4-Methylphenol	1	75.522	0	100	76	70	130
Nitrobenzene	1	43.0258	0	50	86	70	130
Isophorone	1	38.4023	0	50	77	60	130
2-Nitrophenol	1	79.5551	0	100	80	70	130
2,4-Dimethylphenol	1	70.1447	0	100	70	40	130
Benzoic Acid	1	77.6674	0	100	78	20	130
bis(2-Chloroethoxy)methane	1	40.15	0	50	80	60	130
2,4-Dichlorophenol	1	73.7027	0	100	74	70	130
1,2,4-Trichlorobenzene	1	36.6447	0	50	73	50	130
Naphthalene	1	35.8066	0	50	72	50	130
4-Chloroaniline	1	21.4612	0	50	43	10	150
Hexachlorobutadiene	1	34.2937	0	50	69	60	130
Caprolactam	1	45.1992	0	50	90	50	130
4-Chloro-3-methylphenol	1	84.9983	0	100	85	50	130
2-Methylnaphthalene	1	38.2001	0	50	76	70	130
1-Methylnaphthalene	1	37.7046	0	50	75	70	130
1,1'-Biphenyl	1	37.7015	0	50	75	60	130
1,2,4,5-Tetrachlorobenzene	1	36.4095	0	50	73	70	130
Hexachlorocyclopentadiene	1	15.4081	0	50	31	20	160
2,4,6-Trichlorophenol	1	78.352	0	100	78	70	130
2,4,5-Trichlorophenol	1	80.5843	0	100	81	70	130
2-Chloronaphthalene	1	39.0558	0	50	78	70	130
1,4-Dimethylnaphthalene	1	38.2044	0	50	76	70	130
Diphenyl Ether	1	37.9461	0	50	76	70	130
2-Nitroaniline	1	48.0029	0	50	96	50	130
Coumarin	1	40.6821	0	50	81	70	130
Acenaphthylene	1	39.4989	0	50	79	70	130
Dimethylphthalate	1	42.5012	0	50	85	70	130
2,6-Dinitrotoluene	1	37.8305	0	50	76	70	130
Acenaphthene	1	40.8425	0	50	82	50	130
3-Nitroaniline	1	35.4416	0	50	71	10	130
2,4-Dinitrophenol	1	79.0679	0	100	79	20	150
Dibenzofuran	1	39.9601	0	50	80	70	130
2,4-Dinitrotoluene	1	44.8448	0	50	90	40	130
4-Nitrophenol	1	94.0322	0	100	94	20	150
2,3,4,6-Tetrachlorophenol	1	80.1664	0	100	80	70	130
Fluorene	1	41.2081	0	50	82	50	130
4-Chlorophenyl-phenylether	1	41.4125	0	50	83	70	130
Diethylphthalate	1	44.9028	0	50	90	70	130
4-Nitroaniline	1	41.778	0	50	84	50	130
Atrazine	1	45.0941	0	50	90	50	130
4,6-Dinitro-2-methylphenol	1	86.1287	0	100	86	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95887

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	34.341	0	50	69	50	130
1,2-Diphenylhydrazine	1	48.9066	0	50	98	70	130
4-Bromophenyl-phenylether	1	43.2539	0	50	87	70	130
Hexachlorobenzene	1	39.7602	0	50	80	70	130
N-Octadecane	1	49.1832	0	50	98	70	130
Pentachlorophenol	1	80.8079	0	100	81	40	130
Phenanthrene	1	43.639	0	50	87	70	130
Anthracene	1	42.3819	0	50	85	70	130
Carbazole	1	43.9681	0	50	88	70	130
Di-n-butylphthalate	1	49.7998	0	50	100	70	130
Fluoranthene	1	45.5664	0	50	91	70	130
Pyrene	1	42.7632	0	50	86	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	46.6588	0	50	93	50	130
3,3'-Dichlorobenzidine	1	22.0502	0	50	44	10	130
Benzo[a]anthracene	1	40.3932	0	50	81	70	130
Chrysene	1	44.2105	0	50	88	60	130
bis(2-Ethylhexyl)phthalate	1	45.4713	0	50	91	70	130
Di-n-octylphthalate	1	47.0883	0	50	94	70	130
Benzo[b]fluoranthene	1	45.1678	0	50	90	70	130
Benzo[k]fluoranthene	1	41.6373	0	50	83	70	130
Benzo[a]pyrene	1	41.2085	0	50	82	70	130
Indeno[1,2,3-cd]pyrene	1	41.6313	0	50	83	70	130
Dibenzo[a,h]anthracene	1	40.2134	0	50	80	60	130
Benzo[g,h,i]perylene	1	40.6528	0	50	81	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95887

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110155.D	AD27892-004(40X)(MS)	12/16/2021 3:10:00 PM
Non Spike(If applicable):	9M110151.D	AD27892-004(40X)	12/16/2021 1:38:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	0	0	50	0*	25	150
Pyridine	1	0	0	50	0*	1	150
N-Nitrosodimethylamine	1	0	0	50	0*	50	130
Benzaldehyde	1	0	0	50	0*	20	220
Aniline	1	0	0	50	0*	20	150
Pentachloroethane	1	0	0	50	0*	50	130
bis(2-Chloroethyl)ether	1	0	0	50	0*	50	130
N-Decane	1	0	0	50	0*	20	130
1,3-Dichlorobenzene	1	0	0	50	0*	60	130
1,4-Dichlorobenzene	1	0	0	50	0*	60	130
1,2-Dichlorobenzene	1	0	0	50	0*	50	130
Benzyl alcohol	1	0	0	50	0*	20	130
bis(2-chloroisopropyl)ether	1	0	0	50	0*	40	130
Acetophenone	1	0	0	50	0*	50	130
Hexachloroethane	1	0	0	50	0*	50	130
N-Nitroso-di-n-propylamine	1	0	0	50	0*	40	130
Nitrobenzene	1	0	0	50	0*	70	130
Isophorone	1	0	0	50	0*	60	130
Benzoic Acid	1	0	0	100	0*	20	130
bis(2-Chloroethoxy)methane	1	0	0	50	0*	60	130
1,2,4-Trichlorobenzene	1	0	0	50	0*	50	130
Naphthalene	1	275.584	207.904	50	135*	50	130
4-Chloroaniline	1	0	0	50	0*	10	150
Hexachlorobutadiene	1	0	0	50	0*	60	130
Caprolactam	1	0	0	50	0*	50	130
2-Methylnaphthalene	1	3952.108	4068.344	50	-230*	70	130
1-Methylnaphthalene	1	0	0	50	0*	70	130
1,1'-Biphenyl	1	0	0	50	0*	60	130
1,2,4,5-Tetrachlorobenzene	1	0	0	50	0*	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2-Chloronaphthalene	1	0	0	50	0*	70	130
1,4-Dimethylnaphthalene	1	0	0	50	0*	70	130
Diphenyl Ether	1	0	0	50	0*	70	130
2-Nitroaniline	1	0	0	50	0*	50	130
Coumarin	1	0	0	50	0*	70	130
Acenaphthylene	1	0	0	50	0*	70	130
Dimethylphthalate	1	0	0	50	0*	70	130
2,6-Dinitrotoluene	1	0	0	50	0*	70	130
Acenaphthene	1	0	0	50	0*	50	130
3-Nitroaniline	1	0	0	50	0*	70	130
Dibenzofuran	1	0	0	50	0*	70	130
2,4-Dinitrotoluene	1	0	0	50	0*	40	130
Fluorene	1	94.708	0	50	189*	50	130
4-Chlorophenyl-phenylether	1	0	0	50	0*	70	130
Diethylphthalate	1	0	0	50	0*	70	130
4-Nitroaniline	1	0	0	50	0*	50	130
Atrazine	1	0	0	50	0*	50	130
n-Nitrosodiphenylamine	1	0	0	50	0*	50	130
1,2-Diphenylhydrazine	1	0	0	50	0*	70	130
4-Bromophenyl-phenylether	1	0	0	50	0*	70	130
Hexachlorobenzene	1	0	0	50	0*	70	130
N-Octadecane	1	0	0	50	0*	70	130
Phenanthrene	1	0	0	50	0*	70	130
Anthracene	1	0	0	50	0*	70	130
Carbazole	1	0	0	50	0*	70	130
Di-n-butylphthalate	1	0	0	50	0*	70	130
Fluoranthene	1	0	0	50	0*	70	130
Pyrene	1	0	0	50	0*	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	0	0	50	0*	50	130
3,3'-Dichlorobenzidine	1	0	0	50	0*	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95887

Method: 8270E	Matrix: Soil		Units: mg/Kg	QC Type: MS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	0	0	50	0*	70	130
Chrysene	1	0	0	50	0*	60	130
bis(2-Ethylhexyl)phthalate	1	0	0	50	0*	70	130
Di-n-octylphthalate	1	0	0	50	0*	70	130
Benzo[b]fluoranthene	1	0	0	50	0*	70	130
Benzo[k]fluoranthene	1	0	0	50	0*	70	130
Benzo[a]pyrene	1	0	0	50	0*	70	130
Indeno[1,2,3-cd]pyrene	1	0	0	50	0*	70	130
Dibenzo[a,h]anthracene	1	0	0	50	0*	60	130
Benzo[g,h,i]perylene	1	0	0	50	0*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95887

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110156.D	AD27892-004(40X)(MSD)	12/16/2021 3:33:00 PM
Non Spike(If applicable):	9M110151.D	AD27892-004(40X)	12/16/2021 1:38:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	0	0	50	0*	25	150
Pyridine	1	0	0	50	0*	1	150
N-Nitrosodimethylamine	1	0	0	50	0*	50	130
Benzaldehyde	1	0	0	50	0*	20	220
Aniline	1	0	0	50	0*	20	150
Pentachloroethane	1	0	0	50	0*	50	130
bis(2-Chloroethyl)ether	1	0	0	50	0*	50	130
N-Decane	1	0	0	50	0*	20	130
1,3-Dichlorobenzene	1	0	0	50	0*	60	130
1,4-Dichlorobenzene	1	0	0	50	0*	60	130
1,2-Dichlorobenzene	1	0	0	50	0*	50	130
Benzyl alcohol	1	0	0	50	0*	20	130
bis(2-chloroisopropyl)ether	1	0	0	50	0*	40	130
Acetophenone	1	0	0	50	0*	50	130
Hexachloroethane	1	0	0	50	0*	50	130
N-Nitroso-di-n-propylamine	1	0	0	50	0*	40	130
Nitrobenzene	1	0	0	50	0*	70	130
Isophorone	1	0	0	50	0*	60	130
Benzoic Acid	1	0	0	100	0*	20	130
bis(2-Chloroethoxy)methane	1	0	0	50	0*	60	130
1,2,4-Trichlorobenzene	1	0	0	50	0*	50	130
Naphthalene	1	287.424	207.904	50	159*	50	130
4-Chloroaniline	1	0	0	50	0*	10	150
Hexachlorobutadiene	1	0	0	50	0*	60	130
Caprolactam	1	0	0	50	0*	50	130
2-Methylnaphthalene	1	3729.396	4068.344	50	-680*	70	130
1-Methylnaphthalene	1	0	0	50	0*	70	130
1,1'-Biphenyl	1	0	0	50	0*	60	130
1,2,4,5-Tetrachlorobenzene	1	0	0	50	0*	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2-Chloronaphthalene	1	0	0	50	0*	70	130
1,4-Dimethylnaphthalene	1	0	0	50	0*	70	130
Diphenyl Ether	1	0	0	50	0*	70	130
2-Nitroaniline	1	0	0	50	0*	50	130
Coumarin	1	0	0	50	0*	70	130
Acenaphthylene	1	0	0	50	0*	70	130
Dimethylphthalate	1	0	0	50	0*	70	130
2,6-Dinitrotoluene	1	0	0	50	0*	70	130
Acenaphthene	1	0	0	50	0*	50	130
3-Nitroaniline	1	0	0	50	0*	70	130
Dibenzofuran	1	0	0	50	0*	70	130
2,4-Dinitrotoluene	1	0	0	50	0*	40	130
Fluorene	1	82.944	0	50	166*	50	130
4-Chlorophenyl-phenylether	1	0	0	50	0*	70	130
Diethylphthalate	1	0	0	50	0*	70	130
4-Nitroaniline	1	0	0	50	0*	50	130
Atrazine	1	0	0	50	0*	50	130
n-Nitrosodiphenylamine	1	0	0	50	0*	50	130
1,2-Diphenylhydrazine	1	0	0	50	0*	70	130
4-Bromophenyl-phenylether	1	0	0	50	0*	70	130
Hexachlorobenzene	1	0	0	50	0*	70	130
N-Octadecane	1	0	0	50	0*	70	130
Phenanthrene	1	0	0	50	0*	70	130
Anthracene	1	0	0	50	0*	70	130
Carbazole	1	0	0	50	0*	70	130
Di-n-butylphthalate	1	0	0	50	0*	70	130
Fluoranthene	1	0	0	50	0*	70	130
Pyrene	1	0	0	50	0*	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	0	0	50	0*	50	130
3,3'-Dichlorobenzidine	1	0	0	50	0*	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95887

Method: 8270E	Matrix: Soil		Units: mg/Kg	QC Type: MSD		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	0	0	50	0*	70	130
Chrysene	1	0	0	50	0*	60	130
bis(2-Ethylhexyl)phthalate	1	0	0	50	0*	70	130
Di-n-octylphthalate	1	0	0	50	0*	70	130
Benzo[b]fluoranthene	1	0	0	50	0*	70	130
Benzo[k]fluoranthene	1	0	0	50	0*	70	130
Benzo[a]pyrene	1	0	0	50	0*	70	130
Indeno[1,2,3-cd]pyrene	1	0	0	50	0*	70	130
Dibenzo[a,h]anthracene	1	0	0	50	0*	60	130
Benzo[g,h,i]perylene	1	0	0	50	0*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95887

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110156.D	AD27892-004(40X)(MSD)	12/16/2021 3:33:00 PM
Duplicate(If applicable):	9M110155.D	AD27892-004(40X)(MS)	12/16/2021 3:10:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	0	0	NA	30
Pyridine	1	0	0	NA	30
N-Nitrosodimethylamine	1	0	0	NA	30
Benzaldehyde	1	0	0	NA	30
Aniline	1	0	0	NA	30
Pentachloroethane	1	0	0	NA	30
bis(2-Chloroethyl)ether	1	0	0	NA	30
N-Decane	1	0	0	NA	30
1,3-Dichlorobenzene	1	0	0	NA	30
1,4-Dichlorobenzene	1	0	0	NA	40
1,2-Dichlorobenzene	1	0	0	NA	30
Benzyl alcohol	1	0	0	NA	30
bis(2-chloroisopropyl)ether	1	0	0	NA	30
Acetophenone	1	0	0	NA	30
Hexachloroethane	1	0	0	NA	30
N-Nitroso-di-n-propylamine	1	0	0	NA	40
Nitrobenzene	1	0	0	NA	30
Isophorone	1	0	0	NA	30
Benzoic Acid	1	0	0	NA	30
bis(2-Chloroethoxy)methane	1	0	0	NA	30
1,2,4-Trichlorobenzene	1	0	0	NA	40
Naphthalene	1	287.424	275.584	4.2	40
4-Chloroaniline	1	0	0	NA	30
Hexachlorobutadiene	1	0	0	NA	30
Caprolactam	1	0	0	NA	30
2-Methylnaphthalene	1	3729.396	3952.108	5.8	30
1-Methylnaphthalene	1	0	0	NA	30
1,1'-Biphenyl	1	0	0	NA	30
1,2,4,5-Tetrachlorobenzene	1	0	0	NA	30
Hexachlorocyclopentadiene	1	0	0	NA	30
2-Chloronaphthalene	1	0	0	NA	30
1,4-Dimethylnaphthalene	1	0	0	NA	30
Diphenyl Ether	1	0	0	NA	30
2-Nitroaniline	1	0	0	NA	30
Coumarin	1	0	0	NA	30
Acenaphthylene	1	0	0	NA	30
Dimethylphthalate	1	0	0	NA	30
2,6-Dinitrotoluene	1	0	0	NA	30
Acenaphthene	1	0	0	NA	40
3-Nitroaniline	1	0	0	NA	30
Dibenzofuran	1	0	0	NA	30
2,4-Dinitrotoluene	1	0	0	NA	40
Fluorene	1	82.944	94.708	13	40
4-Chlorophenyl-phenylether	1	0	0	NA	30
Diethylphthalate	1	0	0	NA	30
4-Nitroaniline	1	0	0	NA	30
Atrazine	1	0	0	NA	30
n-Nitrosodiphenylamine	1	0	0	NA	30
1,2-Diphenylhydrazine	1	0	0	NA	30
4-Bromophenyl-phenylether	1	0	0	NA	30
Hexachlorobenzene	1	0	0	NA	30
N-Octadecane	1	0	0	NA	30
Phenanthrene	1	0	0	NA	30
Anthracene	1	0	0	NA	30
Carbazole	1	0	0	NA	30
Di-n-butylphthalate	1	0	0	NA	30
Fluoranthene	1	0	0	NA	30
Pyrene	1	0	0	NA	40
Benzidine	1	0	0	NA	30
Butylbenzylphthalate	1	0	0	NA	40
3,3'-Dichlorobenzidine	1	0	0	NA	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95887

Method: 8270E	Matrix: Soil	Units: mg/Kg	QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	0	0	NA	30
Chrysene	1	0	0	NA	30
bis(2-Ethylhexyl)phthalate	1	0	0	NA	30
Di-n-octylphthalate	1	0	0	NA	30
Benzo[b]fluoranthene	1	0	0	NA	30
Benzo[k]fluoranthene	1	0	0	NA	30
Benzo[a]pyrene	1	0	0	NA	30
Indeno[1,2,3-cd]pyrene	1	0	0	NA	30
Dibenzo[a,h]anthracene	1	0	0	NA	30
Benzo[g,h,i]perylene	1	0	0	NA	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95887
Blank Data File: 9M110142.D
Matrix: Soil

Blank Analysis Date: 12/16/21 09:58
Blank Extraction Date: 12/15/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD27738-001	9M110157.D	12/16/21 15:57
AD27892-004(40X)	9M110156.D	12/16/21 15:33
AD27892-004(40X)	9M110155.D	12/16/21 15:10
AD27892-004(40X)	9M110151.D	12/16/21 13:38
SMB95887(MS)	9M110141.D	12/16/21 09:35

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109528.D
Analysis Date: 11/12/21 08:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.119 to 10.130 min

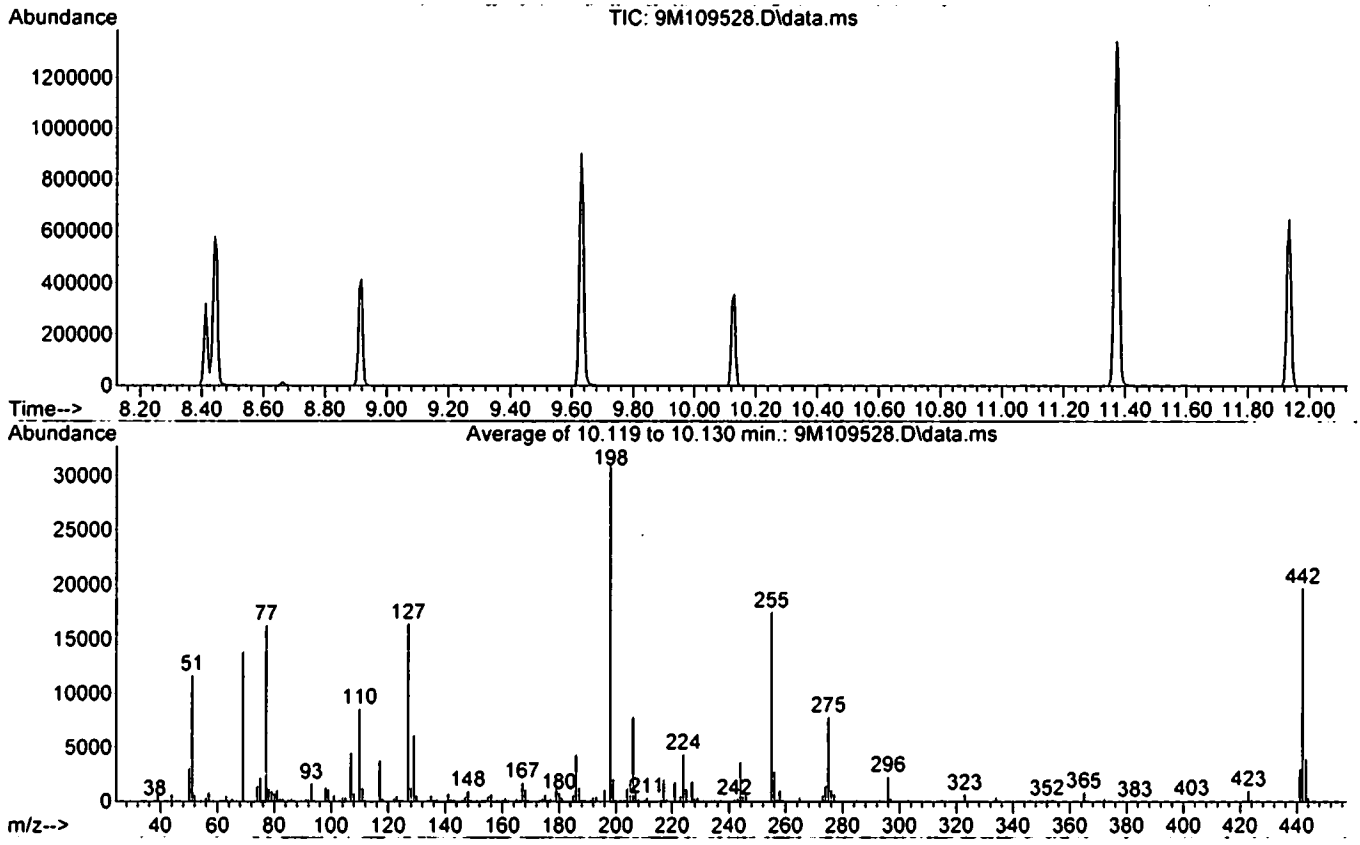
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

Data File	Sample Number	Analysis Date:
9M109529.D	CAL BNA@50PPM	11/12/21 08:27
9M109530.D	CAL BNA@50PPM	11/12/21 10:07
9M109531.D	CAL BNA@196PP	11/12/21 10:34
9M109532.D	CAL BNA@160PP	11/12/21 10:57
9M109533.D	CAL BNA@120PP	11/12/21 11:20
9M109534.D	CAL BNA@80PPM	11/12/21 11:43
9M109535.D	CAL BNA@10PPM	11/12/21 12:06
9M109536.D	CAL BNA@2PPM	11/12/21 12:29
9M109537.D	CAL BNA@20PPM	11/12/21 12:52
9M109538.D	CAL BNA@0.5PP	11/12/21 13:15
9M109539.D	ICV BNA@50PPM	11/12/21 13:39

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-12-21\
Data File : 9M109528.D
Acq On : 12 Nov 2021 8:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1110.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Nov 10 11:23:34 2021



Spectrum Information: Average of 10.119 to 10.130 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M110139.D
Instrument: GCMS 9 **Analysis Date:** 12/16/21 08:47
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.113 to 10.119 min

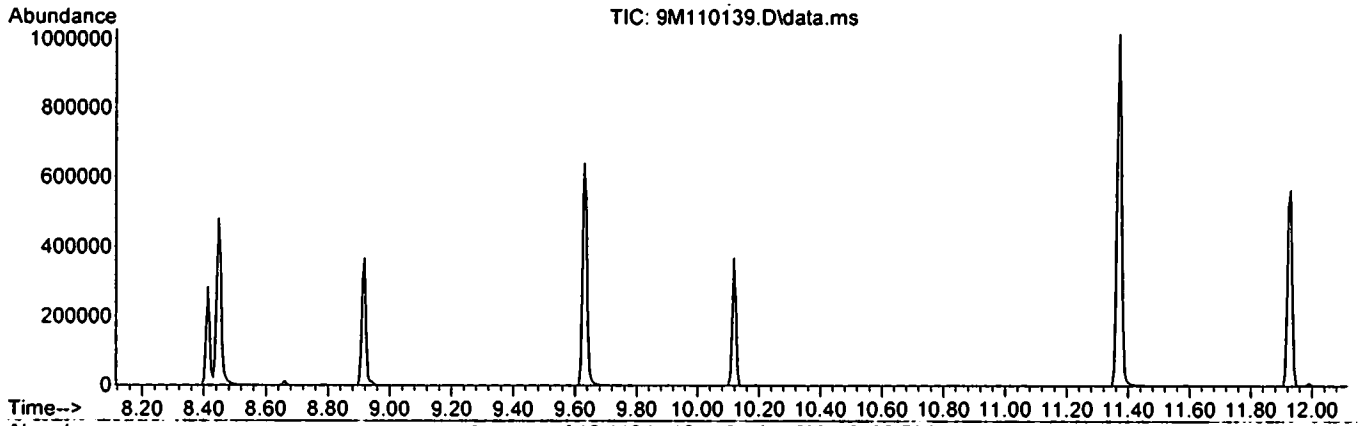
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	42.6	13667	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.5	15585	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.5	17828	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	32108	PASS
199	198	5	9	7.2	2313	PASS
275	198	10	30	22.5	7227	PASS
365	198	1	100	2.6	849	PASS
441	443	0.01	100	82.0	2883	PASS
442	198	40	100	53.3	17121	PASS
443	442	17	23	20.5	3515	PASS

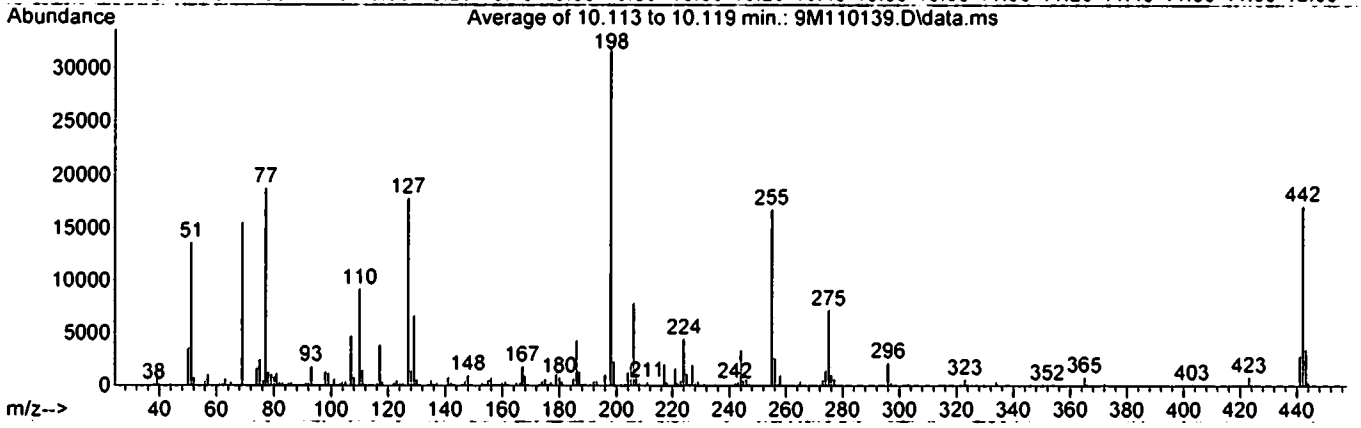
Data File	Sample Number	Analysis Date:
9M110140.D	CAL BNA@50PPM	12/16/21 09:10
9M110141.D	SMB95887(MS)	12/16/21 09:35
9M110142.D	SMB95887	12/16/21 09:58
9M110143.D	AD27892-001	12/16/21 10:21
9M110144.D	AD27892-002	12/16/21 10:54
9M110145.D	AD27892-003	12/16/21 11:17
9M110146.D	AD27892-004(20X)	12/16/21 11:42
9M110147.D	AD27892-005(10X)	12/16/21 12:05
9M110148.D	AD27892-006(5X)	12/16/21 12:28
9M110149.D	AD27892-007(5X)	12/16/21 12:51
9M110150.D	AD27892-008(10X)	12/16/21 13:14
9M110151.D	AD27892-004(40X)	12/16/21 13:38
9M110152.D	AD27892-005(20X)	12/16/21 14:01
9M110153.D	AD27892-006(20X)	12/16/21 14:24
9M110154.D	SMB95898	12/16/21 14:47
9M110155.D	AD27892-004(40X)	12/16/21 15:10
9M110156.D	AD27892-004(40X)	12/16/21 15:33
9M110157.D	AD27738-001	12/16/21 15:57

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-16-21\
Data File : 9M110139.D
Acq On : 16 Dec 2021 8:47
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1112.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Nov 12 13:36:55 2021





Spectrum Information: Average of 10.113 to 10.119 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.6	13667	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.5	15585	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.5	17828	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	32108	PASS
199	198	5	9	7.2	2313	PASS
275	198	10	30	22.5	7227	PASS
365	198	1	100	2.6	849	PASS
441	443	0.01	100	82.0	2883	PASS
442	198	40	100	53.3	17121	PASS
443	442	17	23	20.5	3515	PASS

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9624	1.0385	0.9669	0.9852	1.0105	0.9840	0.9623	1.0374	1.2738	1.02	2.79	0.999	0.999	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0486	1.9170	1.8713	2.0691	2.2124	2.2284	2.2238	2.3593	----	2.12	3.24	0.998	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5844	1.4491	1.4539	1.5611	1.6550	1.6441	1.6192	1.7263	----	1.59	3.19	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2576	2.2947	2.1426	2.2439	2.3506	2.3554	2.3159	2.4717	----	2.30	4.73	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9817	2.0459	1.9007	1.9986	2.0301	1.9700	1.8467	1.8743	----	1.96	5.56	0.998	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	3.6724	3.8218	3.6170	3.8109	3.8797	3.8028	3.7243	3.9384	5.9717	4.03	5.65	0.999	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8220	0.8160	0.8000	0.8246	0.8651	0.8584	0.8408	0.8950	----	0.840	5.69	0.998	0.999	3.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4993	2.5870	2.4254	2.5484	2.6034	2.5521	2.4368	2.6078	3.7688	2.67	5.71	0.998	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9070	2.7980	2.7604	2.9117	3.0575	3.0437	2.9845	3.1500	----	2.95	5.60	0.999	0.999	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4390	3.4392	3.2937	3.4793	3.5934	3.5717	3.4979	3.7009	----	3.50	5.61	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4405	2.3875	2.3479	2.4739	2.5552	2.5234	2.4667	2.6111	----	2.48	5.75	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.4001	2.4737	2.3574	2.4726	2.5051	2.4558	2.3701	2.4693	----	2.44	5.79	0.999	0.999	2.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6183	2.7799	2.5364	2.6789	2.7404	2.7154	2.6342	2.7741	----	2.68	5.88	0.999	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5135	1.5618	1.4460	1.5151	1.5577	1.5799	1.5269	1.6228	----	1.54	5.94	0.998	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4241	1.4528	1.3670	1.4209	1.4569	1.4820	1.4296	1.5216	----	1.44	6.07	0.998	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9354	0.7923	0.8570	0.8927	0.9735	0.9931	0.9729	1.0312	----	0.931	6.04	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5245	1.6342	1.5016	1.5422	1.5529	1.5613	1.5181	1.6110	----	1.56	6.15	0.999	0.999	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2790	1.1876	1.1809	1.2453	1.3187	1.3446	1.3138	1.3888	1.8577	1.35	6.12	0.999	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8684	1.9327	1.8087	1.8489	1.9011	1.8899	1.7528	1.7972	----	1.85	6.25	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5577	0.5501	0.5271	0.5475	0.5722	0.5824	0.5669	0.6033	----	0.563	6.34	0.999	1.00	4.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0350	0.9675	0.9599	1.0188	1.0591	1.0389	0.9623	0.9938	1.5420	1.06	6.25	0.998	0.999	17	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3738	1.2322	1.2398	1.3105	1.4009	1.3982	1.3041	1.3519	1.8559	1.39	6.25	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Qua	0.1282	0.1135	0.1167	0.1295	0.1464	0.1518	0.1511	0.1602	----	0.137	6.38	0.997	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Qua	0.3349	0.2940	0.3027	0.3287	0.3598	0.3626	0.3578	0.3710	----	0.339	6.40	0.999	1.00	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6882	0.6448	0.6339	0.6649	0.7011	0.6990	0.6882	0.7195	----	0.680	6.58	0.999	0.999	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1380	0.1026	0.1181	0.1310	0.1649	0.1706	0.1717	0.1775	----	0.147	6.64	0.995	0.999	19	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3471	0.3040	0.3130	0.3362	0.3515	0.3547	0.3509	0.3663	0.4496	0.353	6.66	0.999	1.00	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1785	----	0.1050	0.1306	0.2381	0.2357	0.2493	0.2565	----	0.199	6.72	0.997	0.998	31		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4129	0.4087	0.3835	0.4010	0.4125	0.4165	0.4042	0.4268	----	0.408	6.74	0.999	0.999	3.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2724	0.2294	0.2416	0.2598	0.2788	0.2816	0.2806	0.2955	0.3159	0.273	6.82	0.999	1.00	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2961	0.3028	0.2757	0.2922	0.2980	0.3014	0.2951	0.3090	----	0.296	6.89	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.0470	1.0755	0.9996	1.0490	1.0627	1.0544	1.0167	1.0556	1.6962	1.12	6.95	0.999	0.999	20	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4019	0.3916	0.3841	0.3984	0.4122	0.4073	0.3911	0.3987	0.5999	0.421	6.99	0.999	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1664	0.1811	0.1564	0.1684	0.1698	0.1708	0.1669	0.1756	----	0.169	7.04	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1028	0.0763	0.0903	0.0990	0.1078	0.1095	0.1092	0.1134	----	0.101	7.26	0.999	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2790	0.2360	0.2456	0.2686	0.2917	0.2961	0.2962	0.3115	----	0.278	7.35	0.999	1.00	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6944	0.6771	0.6494	0.6875	0.7097	0.7020	0.6815	0.7064	----	0.689	7.50	0.999	0.999	2.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6359	0.6332	0.5994	0.6464	0.6485	0.6492	0.6300	0.6543	----	0.637	7.58	0.999	0.999	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6646	0.6552	0.6244	0.6640	0.6791	0.6756	0.6562	0.6804	----	0.662	7.50	0.999	0.999	2.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8181	0.8439	0.7751	0.8068	0.8353	0.8250	0.7981	0.8291	----	0.816	7.87	0.999	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6260	0.6195	0.5745	0.6187	0.6385	0.6449	0.6256	0.6543	----	0.625	7.62	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.84

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120701 0065

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3487	0.2175	0.2510	0.2846	0.3547	0.3672	0.3633	0.3825	----	0.321	7.61	0.999	0.999	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3951	0.3254	0.3304	0.3732	0.4680	0.4450	0.4280	0.4408	----	0.401	7.71	0.998	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4129	0.3291	0.3665	0.3779	0.4389	0.4465	0.4444	0.4589	----	0.409	7.74	0.999	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4618	1.5140	1.3749	1.4569	1.4905	1.5099	1.4993	1.5684	----	1.48	7.78	0.999	1.00	3.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2532	1.2243	1.1694	1.2342	1.2757	1.2716	1.2471	1.3053	----	1.25	7.90	1.00	1.00	3.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8957	0.8725	0.8277	0.8857	0.9200	0.9223	0.8954	0.9455	----	0.896	7.96	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.4092	0.2887	0.3381	0.3846	0.4465	0.4466	0.4453	0.4696	----	0.404	7.97	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5229	0.4865	0.4837	0.5100	0.5299	0.5411	0.5265	0.5415	----	0.518	8.16	1.00	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	2.0049	1.8122	1.7868	1.9733	2.0282	2.0438	1.9827	2.0551	----	1.96	8.26	1.00	1.00	5.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3643	1.3293	1.2827	1.3547	1.4004	1.4241	1.3904	1.4616	----	1.38	8.12	0.999	0.999	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Qua	0.2782	0.1388	0.2329	0.2784	0.3131	0.3074	0.2911	0.2979	----	0.267	8.18	0.998	0.999	22	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2908	1.2738	1.2124	1.2642	1.3286	1.3155	1.2716	1.3292	----	1.29	8.41	0.999	0.999	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3201	0.1950	0.2774	0.3205	0.3632	0.3617	0.3575	0.3700	----	0.321	8.33	0.999	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0869	----	0.0451	0.0618	0.1087	0.1195	0.1271	0.1374	----	0.0981	8.42	0.990	0.999	35	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7827	1.7455	1.6620	1.7503	1.8030	1.7994	1.7598	1.8414	2.7555	1.88	8.57	0.999	0.999	18	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3137	0.1515	0.2380	0.3005	0.3764	0.3932	0.3922	0.4181	----	0.323	8.54	0.997	0.999	28	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2423	0.0971	0.1858	0.2265	0.2770	0.2835	0.2825	0.2919	----	0.236	8.45	0.997	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3371	0.2342	0.2888	0.3203	0.3628	0.3754	0.3688	0.3905	----	0.335	8.67	0.998	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4784	1.3492	1.3467	1.4529	1.5101	1.5068	1.4451	1.5090	----	1.45	8.90	0.999	0.999	4.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6835	0.6653	0.6452	0.6744	0.7039	0.7095	0.6878	0.7234	----	0.687	8.88	0.999	1.00	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3517	1.2321	1.2382	1.3373	1.3846	1.3999	1.3726	1.4466	----	1.35	8.75	0.999	0.999	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3794	0.2108	0.2963	0.3488	0.4084	0.4144	0.4054	0.4252	----	0.361	8.90	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3785	0.2738	0.3162	0.3638	0.3982	0.4039	0.4031	0.4274	----	0.371	9.52	0.998	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0667	----	0.0384	0.0522	0.0847	0.0942	0.0973	0.1028	----	0.0767	8.92	0.996	0.999	32	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6667	0.6137	0.6067	0.6608	0.6785	0.6906	0.6588	0.6918	----	0.659	9.00	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0970	0.0638	0.0758	0.0921	0.1065	0.1096	0.1083	0.1145	----	0.0960	9.12	0.998	0.999	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8028	0.7355	0.7308	0.7920	0.8132	0.8254	0.7892	0.9078	----	0.800	9.04	0.996	0.998	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2120	0.1905	0.1888	0.2081	0.2178	0.2263	0.2184	0.2324	----	0.212	9.38	0.998	0.999	7.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2245	0.2244	0.2147	0.2256	0.2310	0.2348	0.2274	0.2413	----	0.228	9.44	0.999	0.999	3.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4526	0.3055	0.3705	0.4318	0.4571	0.4645	0.4379	0.4491	----	0.421	9.71	0.999	0.999	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1263	----	0.0853	0.1072	0.1391	0.1479	0.1477	0.1591	----	0.130	9.64	0.997	0.999	20	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1071	1.1074	1.0299	1.1076	1.1353	1.1443	1.0920	1.1436	----	1.11	9.88	0.999	0.999	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1346	1.0159	1.0256	1.1238	1.1722	1.1868	1.1336	1.1875	----	1.12	9.94	0.999	0.999	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0534	0.9433	0.9530	1.0382	1.0852	1.1119	1.0591	1.1128	----	1.04	10.11	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2114	0.8511	0.9817	1.1298	1.2483	1.2889	1.2345	1.3030	1.0518	1.14	10.48	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1959	0.9746	1.0118	1.1427	1.2390	1.2665	1.2179	1.2875	----	1.17	11.22	0.999	0.999	10	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3132	1.1788	1.1981	1.2929	1.3442	1.3431	1.2920	1.3431	----	1.29	11.49	0.999	0.999	5.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.8253	0.4771	0.6651	0.7903	0.8780	0.8544	0.7833	0.7829	----	0.757	11.37	0.997	0.999	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6634	0.6183	0.6068	0.6496	0.6918	0.6974	0.6818	0.7365	----	0.668	11.67	0.997	0.998	6.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.84
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2581	0.2208	0.2294	0.2433	0.2702	0.2731	0.2697	0.2863	----	0.256	11.60	0.998	0.999	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4522	0.3175	0.3732	0.4153	0.4680	0.4770	0.4645	0.4853	----	0.432	12.00	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5453	0.3020	0.4116	0.4853	0.5681	0.5833	0.5740	0.6049	----	0.509	12.25	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Qua	0.4090	0.2028	0.2947	0.3479	0.4261	0.4307	0.4170	0.4371	----	0.371	12.36	0.999	0.999	23		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4707	0.3390	0.4080	0.4666	0.5043	0.5014	0.4845	0.4970	----	0.459	12.88	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2591	1.2310	1.1698	1.2516	1.2936	1.2988	1.2576	1.3003	----	1.26	12.91	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.2559	1.2566	1.1720	1.2439	1.2635	1.2542	1.1614	1.2167	----	1.23	12.95	0.998	0.998	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.8253	0.4720	0.6343	0.7437	0.8454	0.8517	0.8063	0.8387	----	0.752	12.95	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1854	0.4944	0.7883	0.9702	1.2565	1.3146	1.2879	1.3756	----	1.08	13.70	0.998	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1382	0.9772	1.0034	1.1964	1.1841	1.1931	1.1967	1.3067	----	1.15	14.13	0.996	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1500	1.0463	1.0559	1.0442	1.1920	1.1748	1.1730	1.1903	----	1.13	14.16	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1147	0.8795	0.9429	1.0377	1.1501	1.1895	1.1504	1.2288	----	1.09	14.50	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2675	0.9839	1.0523	1.1561	1.3126	1.3716	1.3462	1.4405	----	1.24	15.94	0.998	0.999	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0392	0.8025	0.8707	0.9504	1.0752	1.1191	1.1030	1.1768	----	1.02	15.97	0.998	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0437	0.8741	0.9013	0.9750	1.0721	1.1133	1.0879	1.1694	----	1.03	16.34	0.998	0.999	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.84
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110140.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/16/2021 9:10:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.72	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.75	50.73	50	**		1.025	1.040	1.46	
Pyridine	1	0		3.23	54.04	50	**		2.116	2.287	8.08	
N-Nitrosodimethylamine	1	0		3.17	56.39	50	**		1.587	1.790	12.79	
2-Fluorophenol	1	0	S	4.72	52.21	50	**		2.304	2.406	4.41	
Benzaldehyde	1	0		5.55	60.72	50	20	0.01	1.956	2.375	21.44	C1
Aniline	1	0		5.64	54.24	50	**		4.027	4.028	8.49	
Pentachloroethane	1	0		5.68	51.45	50	**	0.05	0.840	0.865	2.89	
bis(2-Chloroethyl)ether	1	0		5.69	50.32	50	20	0.7	2.670	2.687	0.63	
Phenol-d5	1	0	S	5.60	54.90	50	**		2.952	3.241	9.79	
Phenol	1	0		5.61	54.71	50	20	0.8	3.502	3.832	9.42	
2-Chlorophenol	1	0		5.74	52.81	50	20	0.8	2.476	2.615	5.63	
N-Decane	1	0		5.77	55.71	50	**	0.05	2.438	2.716	11.41	
1,3-Dichlorobenzene	1	0		5.87	50.57	50	**		2.685	2.715	1.13	
1,4-Dichlorobenzene-d4	1	0	I	5.92	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.93	52.79	50	20		1.541	1.627	5.58	
1,2-Dichlorobenzene	1	0		6.05	52.69	50	**		1.444	1.522	5.38	
Benzyl alcohol	1	0		6.02	53.92	50	**		0.931	1.004	7.84	
bis(2-chloroisopropyl)ether	1	0		6.14	60.94	50	20	0.01	1.556	1.896	21.88	C1
2-Methylphenol	1	0		6.11	56.07	50	20	0.7	1.346	1.510	12.14	
Acetophenone	1	0		6.24	55.56	50	20	0.01	1.850	2.056	11.12	
Hexachloroethane	1	0		6.32	52.53	50	20	0.3	0.563	0.592	5.06	
N-Nitroso-di-n-propylamine	1	0		6.24	55.94	50	20	0.5	1.064	1.191	11.87	
3&4-Methylphenol	1	0		6.24	55.14	50	20		1.385	1.528	10.28	
Naphthalene-d8	1	0	I	6.92	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.37	29.07	25	**		0.137	0.162	16.26	
Nitrobenzene	1	0		6.38	57.12	50	20	0.2	0.339	0.398	14.24	
Isophorone	1	0		6.57	57.50	50	20	0.4	0.680	0.782	15.00	
2-Nitrophenol	1	0		6.63	59.83	50	20	0.1	0.147	0.179	19.65	
2,4-Dimethylphenol	1	0		6.65	51.37	50	20	0.2	0.353	0.362	2.74	
Benzoic Acid	1	0		6.71	50.54	50	**		0.199	0.213	1.08	
bis(2-Chloroethoxy)methane	1	0		6.72	55.26	50	20	0.3	0.408	0.451	10.51	
2,4-Dichlorophenol	1	0		6.81	52.41	50	20	0.2	0.273	0.286	4.82	
1,2,4-Trichlorobenzene	1	0		6.88	50.00	50	**		0.296	0.296	0.01	
Naphthalene	1	0		6.94	52.96	50	20	0.7	1.117	1.106	5.91	
4-Chloroaniline	1	0		6.98	50.78	50	20	0.01	0.421	0.427	1.55	
Hexachlorobutadiene	1	0		7.02	49.33	50	20	0.01	0.169	0.167	1.33	
Caprolactam	1	0		7.25	58.80	50	20	0.01	0.101	0.119	17.60	
4-Chloro-3-methylphenol	1	0		7.34	56.90	50	20	0.2	0.278	0.317	13.81	
2-Methylnaphthalene	1	0		7.48	52.59	50	**	0.4	0.689	0.724	5.17	
1-Methylnaphthalene	1	0		7.56	51.98	50	**	0.4	0.637	0.662	3.96	
Methylnaphthalenes	1	0		7.48	104.90	50	**			1.390	109.80	
1,1'-Biphenyl	1	0		7.86	54.85	50	20	0.01	0.816	0.896	9.71	
Acenaphthene-d10	1	0	I	8.37	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.61	49.64	50	20	0.01	0.625	0.621	0.73	
Hexachlorocyclopentadiene	1	0		7.60	21.95	50	20	0.05	0.321	0.147	56.09	C1
2,4,6-Trichlorophenol	1	0		7.70	48.28	50	20	0.2	0.401	0.387	3.44	
2,4,5-Trichlorophenol	1	0		7.74	48.56	50	20	0.2	0.409	0.398	2.88	
2-Fluorobiphenyl	1	0	S	7.77	24.76	25	**		1.485	1.470	0.95	
2-Chloronaphthalene	1	0		7.88	51.10	50	20	0.8	1.248	1.275	2.20	
1,4-Dimethylnaphthalene	1	0		8.17	50.11	50	**		1.055	1.057	0.21	
Dimethylnaphthalenes	1	0		8.17	50.11	50	20			1.057	0.21	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110140.D Instrument: GCMS 9

Cont Calibration Date/Time 12/16/2021 9:10:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.94	51.64	50	**		0.896	0.925	3.29	
2-Nitroaniline	1	0		7.97	58.86	50	20	0.01	0.404	0.499	17.73	
Coumarin	1	0		8.15	51.21		**		0.518			
Acenaphthylene	1	0		8.25	51.34	50	20	0.9	1.961	2.013	2.67	
Dimethylphthalate	1	0		8.11	51.55	50	20	0.01	1.376	1.419	3.11	
2,6-Dinitrotoluene	1	0		8.17	49.88	50	20	0.2	0.267	0.301	0.23	
Acenaphthene	1	0		8.40	51.64	50	20	0.9	1.286	1.328	3.29	
3-Nitroaniline	1	0		8.32	58.86	50	20	0.01	0.321	0.378	17.72	
2,4-Dinitrophenol	1	0		8.41	55.01	50	20	0.2	0.098	0.100	10.03	
Dibenzofuran	1	0		8.56	47.98	50	20	0.8	1.878	1.802	4.05	
2,4-Dinitrotoluene	1	0		8.53	55.81	50	20	0.2	0.323	0.391	11.62	
4-Nitrophenol	1	0		8.45	57.39	50	20	0.01	0.236	0.289	14.79	
2,3,4,6-Tetrachlorophenol	1	0		8.66	51.95	50	20	0.01	0.335	0.348	3.90	
Fluorene	1	0		8.88	51.84	50	20	0.9	1.450	1.503	3.68	
4-Chlorophenyl-phenylether	1	0		8.87	50.37	50	20	0.4	0.687	0.692	0.75	
Diethylphthalate	1	0		8.74	52.65	50	20	0.01	1.345	1.417	5.30	
4-Nitroaniline	1	0		8.89	52.69	50	20	0.01	0.361	0.413	5.38	
Atrazine	1	0		9.52	53.17	50	20	0.01	0.371	0.394	6.33	
Phenanthrene-d10	1	0	I	9.85	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.92	55.42	50	20	0.01	0.077	0.087	10.83	
n-Nitrosodiphenylamine	1	0		8.98	50.69	50	20	0.01	0.659	0.668	1.38	
2,4,6-Tribromophenol	1	0	S	9.12	52.65	50	**		0.096	0.107	5.29	
1,2-Diphenylhydrazine	1	0		9.02	61.74	50	**		0.800	0.987	23.49	
4-Bromophenyl-phenylether	1	0		9.37	50.88	50	20	0.1	0.212	0.216	1.76	
Hexachlorobenzene	1	0		9.43	49.96	50	20	0.1	0.228	0.228	0.09	
N-Octadecane	1	0		9.69	62.05	50	**	0.05	0.421	0.523	24.10	
Pentachlorophenol	1	0		9.63	46.49	50	20	0.05	0.130	0.116	7.03	
Phenanthrene	1	0		9.87	51.00	50	20	0.7	1.108	1.131	1.99	
Anthracene	1	0		9.93	51.76	50	20	0.7	1.123	1.162	3.53	
Carbazole	1	0		10.10	50.80	50	20	0.01	1.045	1.061	1.61	
Di-n-butylphthalate	1	0		10.47	55.42	50	20	0.01	1.145	1.269	10.84	
Fluoranthene	1	0		11.21	52.18	50	20	0.6	1.167	1.218	4.36	
Chrysene-d12	1	0	I	12.92	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.48	56.57	50	20	0.6	1.288	1.457	13.14	
Benzidine	1	0		11.37	43.81	50	**		0.757	0.733	12.39	
Terphenyl-d14	1	0	S	11.66	27.78	25	**		0.668	0.743	11.13	
4,4'-DDE	1	0		11.59	55.11		**		0.256			
4,4'-DDD	1	0		11.99	57.67		**		0.432			
Butylbenzylphthalate	1	0		12.24	57.33	50	20	0.01	0.509	0.630	14.66	
4,4'-DDT	1	0		12.35	47.60		**		0.371			
3,3'-Dichlorobenzidine	1	0		12.88	56.20	50	20	0.01	0.459	0.516	12.40	
Benzo[a]anthracene	1	0		12.91	52.38	50	20	0.8	1.258	1.318	4.76	
Chrysene	1	0		12.95	50.62	50	20	0.7	1.228	1.243	1.25	
bis(2-Ethylhexyl)phthalate	1	0		12.93	52.02	50	20	0.01	0.752	0.864	4.04	
Perylene-d12	1	0	I	14.56	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.68	56.24	50	20	0.01	1.084	1.355	12.48	
Benzo[b]fluoranthene	1	0		14.12	53.33	50	20	0.7	1.150	1.226	6.65	
Benzo[k]fluoranthene	1	0		14.15	51.41	50	20	0.7	1.128	1.160	2.82	
Benzo[a]pyrene	1	0		14.49	52.07	50	20	0.7	1.087	1.132	4.15	
Indeno[1,2,3-cd]pyrene	1	0		15.94	52.02	50	20	0.5	1.241	1.292	4.04	
Dibenzo[a,h]anthracene	1	0		15.96	51.99	50	20	0.4	1.017	1.058	3.99	
Benzo[g,h,i]perylene	1	0		16.34	50.50	50	20	0.5	1.030	1.040	1.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110140.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/16/2021 9:10:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.662	0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.055	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109530.D Method: EPA 8270E

Analysis Date/Time: 11/12/21 10:07

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
Eval File Area Limit:	16559-66236		29294-117176		114192-456766		54458-217832		102032-408126		96603-386412		104604-418416	
Eval File Rt Limit:	2.25-3.25		5.43-6.43		6.44-7.44		7.88-8.88		9.35-10.35		12.42-13.42		14.06-15.06	

Data File	Sample													
9M109530.D	CAL BNA@50PPM	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
9M109531.D	CAL BNA@196PPM	25016	2.74	43177	5.93	171873	6.94	81811	8.38	155085	9.85	151041	12.92	158596	14.56
9M109532.D	CAL BNA@160PPM	27353	2.74	47722	5.92	187885	6.94	90029	8.38	170786	9.85	165121	12.92	175539	14.56
9M109533.D	CAL BNA@120PPM	25881	2.74	45223	5.92	180459	6.94	85911	8.38	159730	9.85	154814	12.92	164815	14.55
9M109534.D	CAL BNA@80PPM	27336	2.74	49171	5.92	195077	6.94	93101	8.38	175374	9.85	167242	12.92	179672	14.55
9M109535.D	CAL BNA@10PPM	23963	2.74	43124	5.92	173483	6.93	84895	8.38	159142	9.85	146568	12.91	157496	14.55
9M109536.D	CAL BNA@2PPM	24360	2.74	44423	5.92	175017	6.93	87263	8.37	163318	9.85	148455	12.91	161765	14.55
9M109537.D	CAL BNA@20PPM	28654	2.74	52105	5.92	206203	6.93	99213	8.38	184782	9.85	174287	12.91	186634	14.55
9M109538.D	CAL BNA@0.5PPM	24368	2.74	44096	5.92	177756	6.93	86981	8.37	162760	9.85	149224	12.91	162376	14.55
9M109539.D	ICV BNA@50PPM	27449	2.74	47884	5.92	189949	6.93	91839	8.38	171179	9.85	165497	12.92	174845	14.55

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110140.D Method: EPA 8270E

Analysis Date/Time: 12/16/21 09:10

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	22786	2.72	38790	5.92	158405	6.92	79986	8.37	150904	9.85	136287	12.92	146913	14.56
Eval File Area Limit:	11393-45572		19395-77580		79202-316810		39993-159972		75452-301808		68144-272574		73456-293826	
Eval File Rt Limit:	2.22-3.22		5.42-6.42		6.42-7.42		7.87-8.87		9.35-10.35		12.42-13.42		14.06-15.06	

Data File	Sample													
9M110141.D	SMB95887(MS)	20576	2.70	34946	5.91	138136	6.92	64516	8.37	124014	9.85	117481	12.92	124786	14.57
9M110142.D	SMB95887	20544	2.71	35201	5.91	142807	6.92	70574	8.37	135897	9.85	119370	12.91	127048	14.56
9M110143.D	AD27892-001	21738	2.70	38922	5.92	121204	6.93	70584	8.38	134819	9.85	123525	12.91	129336	14.56
9M110144.D	AD27892-002	22131	2.71	42046	5.92	89479	6.95	37997	8.38	118095	9.85	130165	12.92	143041	14.57
9M110145.D	AD27892-003	18143	2.72	40435	5.92	99295	6.95	78706	8.42	101932	9.85	116175	12.91	100590	14.55
9M110146.D	AD27892-004(20X)	22753	2.72	43040	5.92	139391	6.93	74724	8.38	126542	9.85	152225	12.91	137199	14.56
9M110147.D	AD27892-005(10X)	24169	2.72	43633	5.92	145991	6.93	81344	8.38	164922	9.85	148773	12.91	160886	14.56
9M110148.D	AD27892-006(5X)	24376	2.72	42015	5.92	146131	6.93	67094	8.38	145733	9.85	139932	12.91	160357	14.56
9M110149.D	AD27892-007(5X)	25705	2.72	43329	5.92	155458	6.93	81005	8.38	146473	9.85	152100	12.91	160383	14.56
9M110150.D	AD27892-008(10X)	25657	2.72	40763	5.91	161703	6.92	73481	8.37	147768	9.85	145480	12.91	156666	14.56
9M110151.D	AD27892-004(40X)	26371	2.72	43050	5.92	158364	6.92	72984	8.37	153655	9.85	152292	12.91	156461	14.56
9M110152.D	AD27892-005(20X)	27234	2.72	42391	5.92	155641	6.92	75492	8.37	151681	9.85	150635	12.91	163988	14.56
9M110153.D	AD27892-006(20X)	26829	2.72	44124	5.92	162828	6.92	78477	8.37	158301	9.85	144812	12.91	160189	14.56
9M110154.D	SMB95898	25607	2.70	44997	5.91	178852	6.92	89556	8.37	169692	9.85	138349	12.91	152013	14.56
9M110155.D	AD27892-004(40X)(M	27383	2.72	45051	5.92	158325	6.92	76312	8.37	158303	9.85	142171	12.91	162001	14.56
9M110156.D	AD27892-004(40X)(M	27160	2.72	46191	5.92	172086	6.92	85581	8.37	167457	9.85	151833	12.91	161941	14.56
9M110157.D	AD27738-001	20586	2.71	34947	5.91	135344	6.92	68464	8.37	130602	9.85	112743	12.91	118547	14.56

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27738-001
Client Id: SB-008 SS
Data File: 7G56200.D
Analysis Date: 12/10/21 13:31
Date Rec/Extracted: 12/07/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	69	U				

Worksheet #: 621338

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56200.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:31
Operator : ABM/AH
Sample : AD27738-001
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:25:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

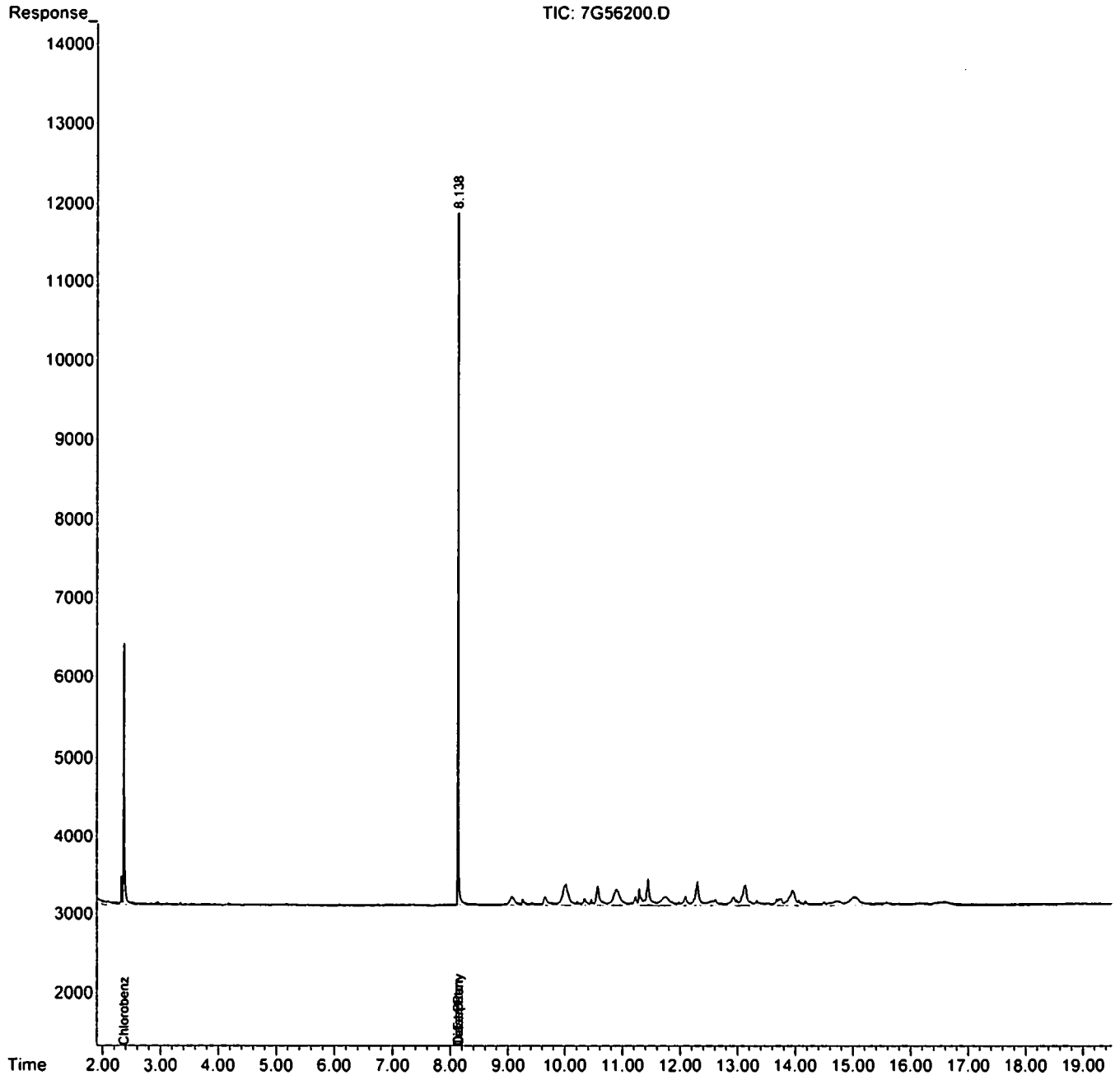
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.368	30719	9.179		
23)	O-Terphenyl	8.138	66989	10.910		
24)d	Diesel Range Organics(T	8.138f	162210	30.413		m
25)t	Total Petroleum Hydroca	8.138f	397816	76.304		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56200.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:31
Operator : ABM/AH
Sample : AD27738-001
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:25:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95839
Client Id:
Data File: 7G56199.D
Analysis Date: 12/10/21 13:02
Date Rec/Extracted: NA-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 621338

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

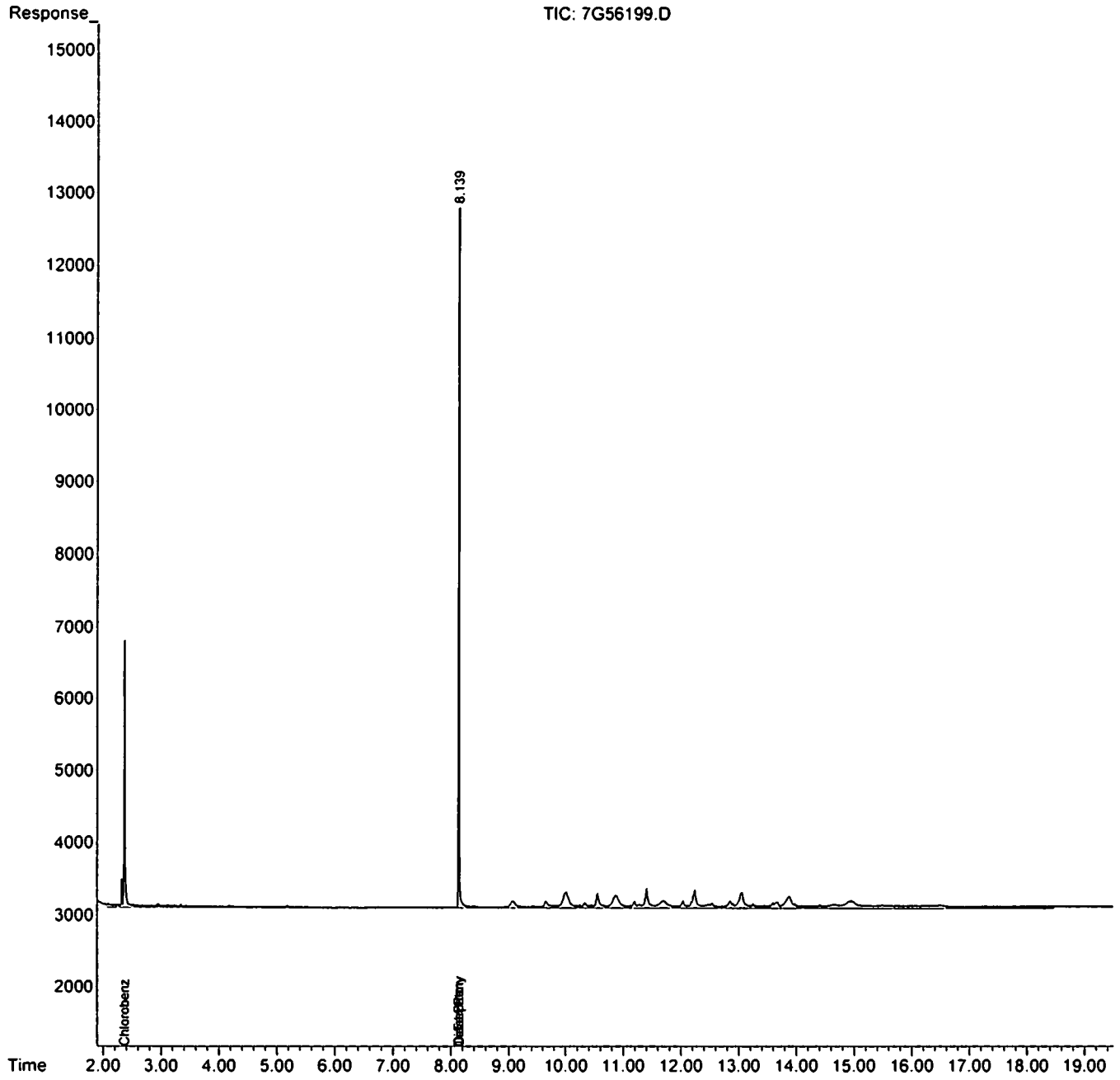
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.368	33700	10.070		
23)	O-Terphenyl	8.140	76018	12.381		
24)d	Diesel Range Organics(T	8.139f	169152	31.715		m
25)t	Total Petroleum Hydroca	8.139f	396186	75.992		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

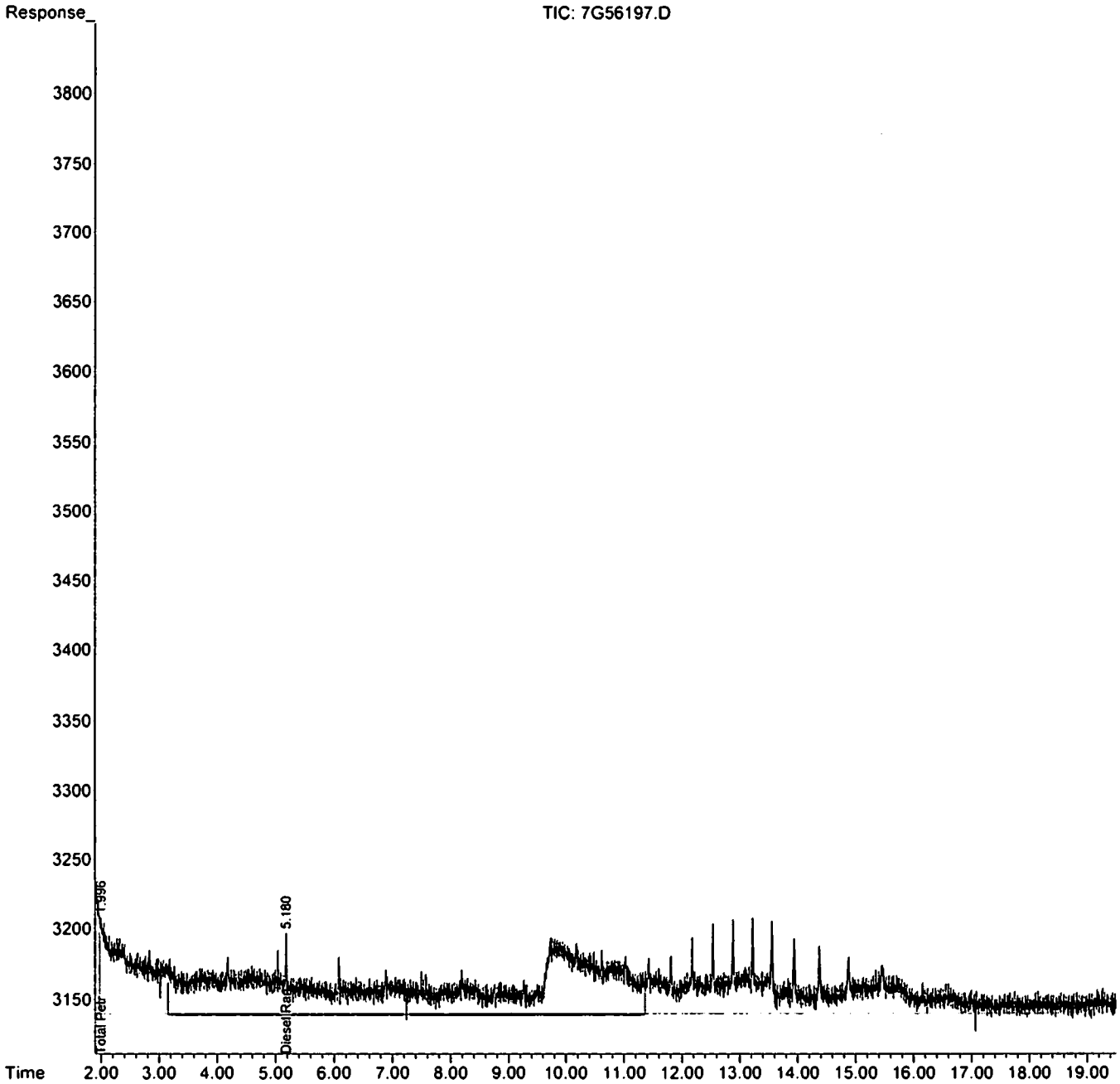
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.180	108944	20.426		m
25)t	Total Petroleum Hydroca	1.996	195935	37.582		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56199.D	SMB95839	S	12/10/21 13:02	1		50	62				
7G56201.D	AD27738-001(MS)	S	12/10/21 14:00	1		45	106				
7G56202.D	AD27738-001(MSD)	S	12/10/21 14:30	1		50	59				
7G56200.D	AD27738-001	S	12/10/21 13:31	1		46	55				
7G56198.D	SMB95839(MS)	S	12/10/21 12:32	1		50	52				

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56198.D	SMB95839(MS)	12/10/2021 12:32:00 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1703.58	0	3000	57	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1670.94	0	3000	56	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1829.44	0	3000	61	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Duplicate(If applicable):	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	1829.44	1670.94	9.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95839
Blank Data File: 7G56199.D
Matrix: Soil

Blank Analysis Date: 12/10/21 13:02
Blank Extraction Date: 12/09/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27738-001	7G56200.D	12/10/21 13:31
AD27738-001(MSD	7G56202.D	12/10/21 14:30
AD27738-001(MS)	7G56201.D	12/10/21 14:00
SMB95839(MS)	7G56198.D	12/10/21 12:32

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56195.D	INST BLK	12/10/21 11:12	Soil					
7G56196.D	CAL TPH@20PPM	12/10/21 11:33	Soil	7G56196.	8.1465	0		
7G56197.D	INST BLK	12/10/21 12:03	Soil	7G56196.	0.0000	200		
7G56198.D	SMB95839(MS)	12/10/21 12:32	Soil	7G56196.	8.1418	0.0577		
7G56199.D	SMB95839	12/10/21 13:02	Soil	7G56196.	8.1398	0.0823		
7G56200.D	AD27738-001	12/10/21 13:31	Soil	7G56196.	8.1380	0.1044		
7G56201.D	AD27738-001(MS)	12/10/21 14:00	Soil	7G56196.	8.1391	0.0909		
7G56202.D	AD27738-001(MSD)	12/10/21 14:30	Soil	7G56196.	8.1405	0.0737		
7G56203.D	AD27774-001	12/10/21 15:00	Soil	7G56196.	8.1392	0.0896		
7G56204.D	AD27774-002	12/10/21 15:29	Soil	7G56196.	8.1377	0.1081		
7G56205.D	AD27774-003	12/10/21 15:58	Soil	7G56196.	8.1371	0.1154		
7G56206.D	CAL TPH@20PPM	12/10/21 16:35	Soil	7G56196.	8.1432	0.0405		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1120701 0088

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56196.D			7G56206.D										
Method:				8015			8015										
Calibration Name:				CAL TPH@20PPM			CAL TPH@20PPM										
Calibration Date/Time				12/10/21 11:33			12/10/21 16:35										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	13.79	20	31.1*	15.03	20	24.9*									
C9	20	1	0	13.65	20	31.8*	15.26	20	23.7*									
C10	20	1	0	13.61	20	32.0*	14.63	20	26.9*									
C12	20	1	0	14.45	20	27.8*	16.1	20	19.5									
C14	20	1	0	15.21	20	24.0*	15.23	20	23.9*									
C16	20	1	0	15.34	20	23.3*	16.32	20	18.4									
C17	20	1	0	11.21	20	44.0*	15.45	20	22.8*									
Pristane	20	1	0	20.93	20	4.7	18.63	20	6.9									
C18	20	1	0	15.48	20	22.6*	16.23	20	18.9									
Phytane	20	1	0	15.77	20	21.2*	16.8	20	16.0									
C20	20	1	0	16.57	20	17.2	17.74	20	11.3									
C22	20	1	0	16.6	20	17.0	17.59	20	12.1									
C24	20	1	0	16.79	20	16.1	17.63	20	11.9									
C26	20	1	0	16.88	20	15.6	17.8	20	11.0									
C28	20	1	0	17.27	20	13.7	18.21	20	9.0									
C30	20	1	0	17.89	20	10.6	18.72	20	6.4									
C32	20	1	0	18.15	20	9.3	19.34	20	3.3									
C34	20	1	0	18.02	20	9.9	19.56	20	2.2									
C36	20	1	0	17.86	20	10.7	19.38	20	3.1									
C40	20	1	0	16.62	20	16.9	18.36	20	8.2									
C44	20	1	0	15.83	20	20.9*	16.89	20	15.6									
Chlorobenzene	20	1	0	14.25	20	28.8*	15.59	20	22.1*									
O-Terphenyl	20	1	0	16.95	20	15.3	17.99	20	10.1									
Average Difference	20	1	0			20.2			14.2									

Flags/Notes: ** - Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27738-001
Client Id: SB-008 SS
Data File: 7G56200.D
Analysis Date: 12/10/21 13:31
Date Rec/Extracted: 12/07/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	69	U				

Worksheet #: 621347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56200.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:31
Operator : ABM/AH
Sample : AD27738-001
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:25:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

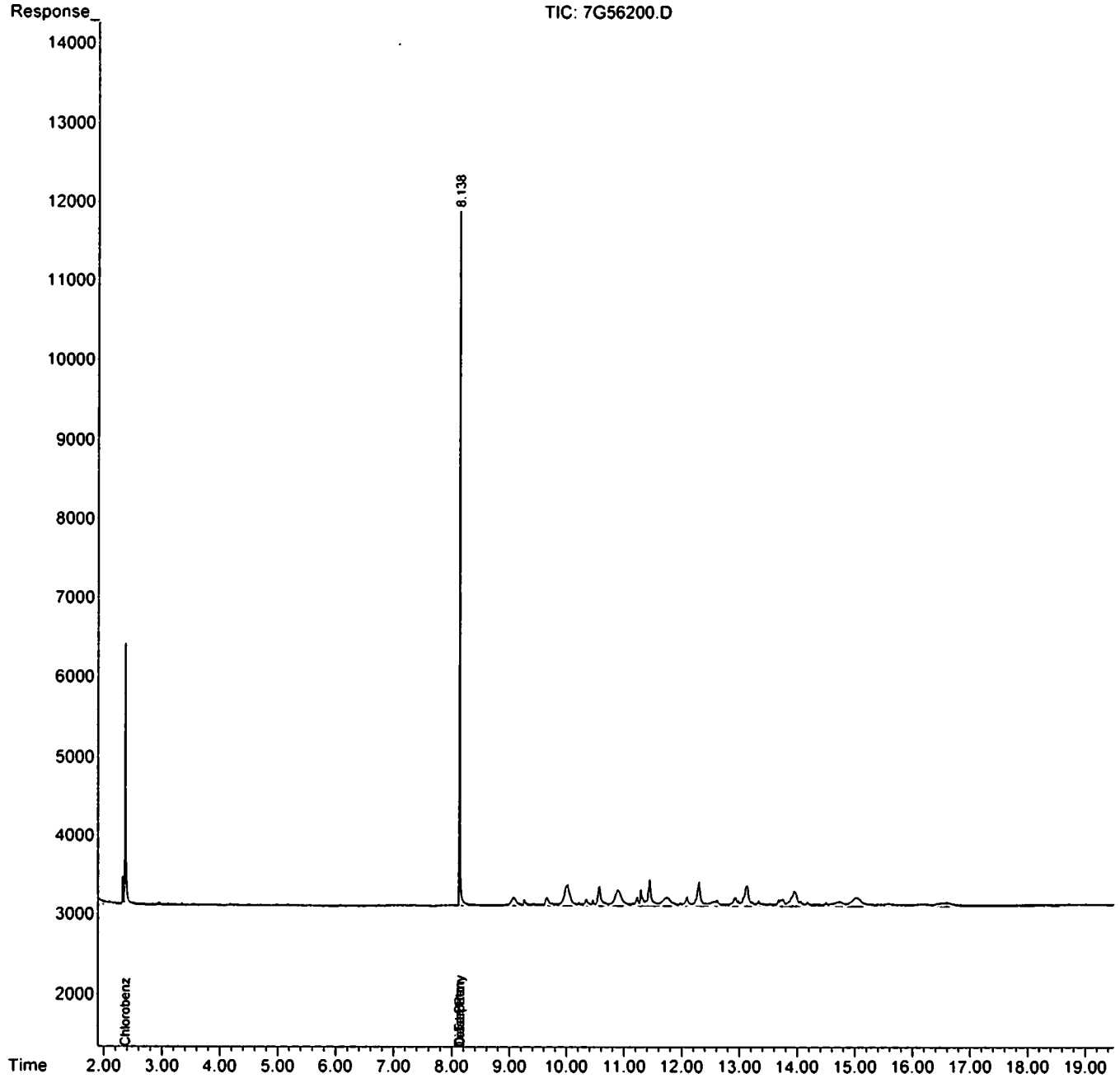
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.368	30719	9.179		
23)	O-Terphenyl	8.138	66989	10.910		
24)d	Diesel Range Organics(T	8.138f	162210	30.413		m
25)t	Total Petroleum Hydroca	8.138f	397816	76.304		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56200.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:31
Operator : ABM/AH
Sample : AD27738-001
Misc : S,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:25:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95839
Client Id:
Data File: 7G56199.D
Analysis Date: 12/10/21 13:02
Date Rec/Extracted: NA-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 621347

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

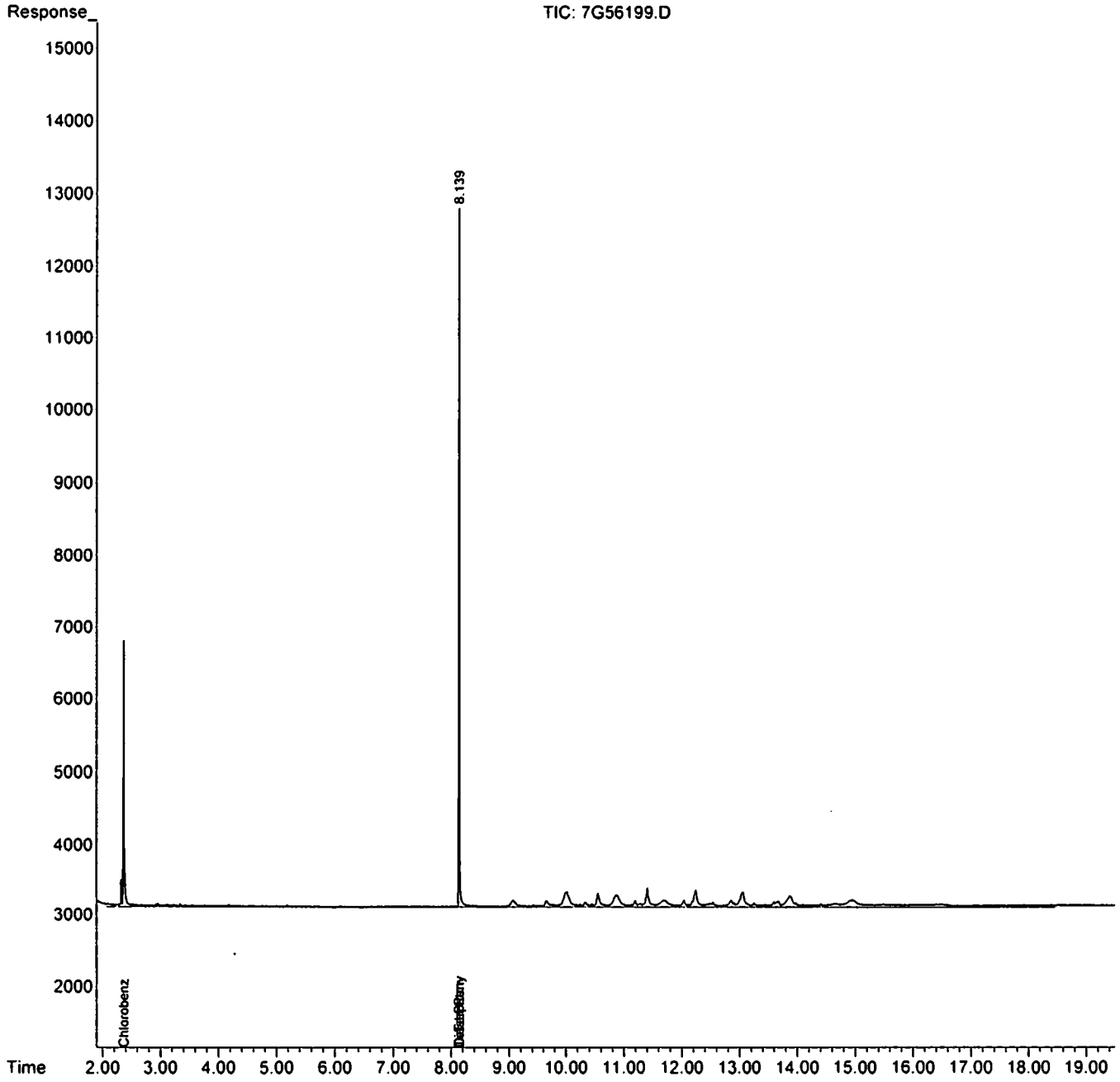
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.368	33700	10.070		
23)	O-Terphenyl	8.140	76018	12.381		
24)d	Diesel Range Organics(T	8.139f	169152	31.715		m
25)t	Total Petroleum Hydroca	8.139f	396186	75.992		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

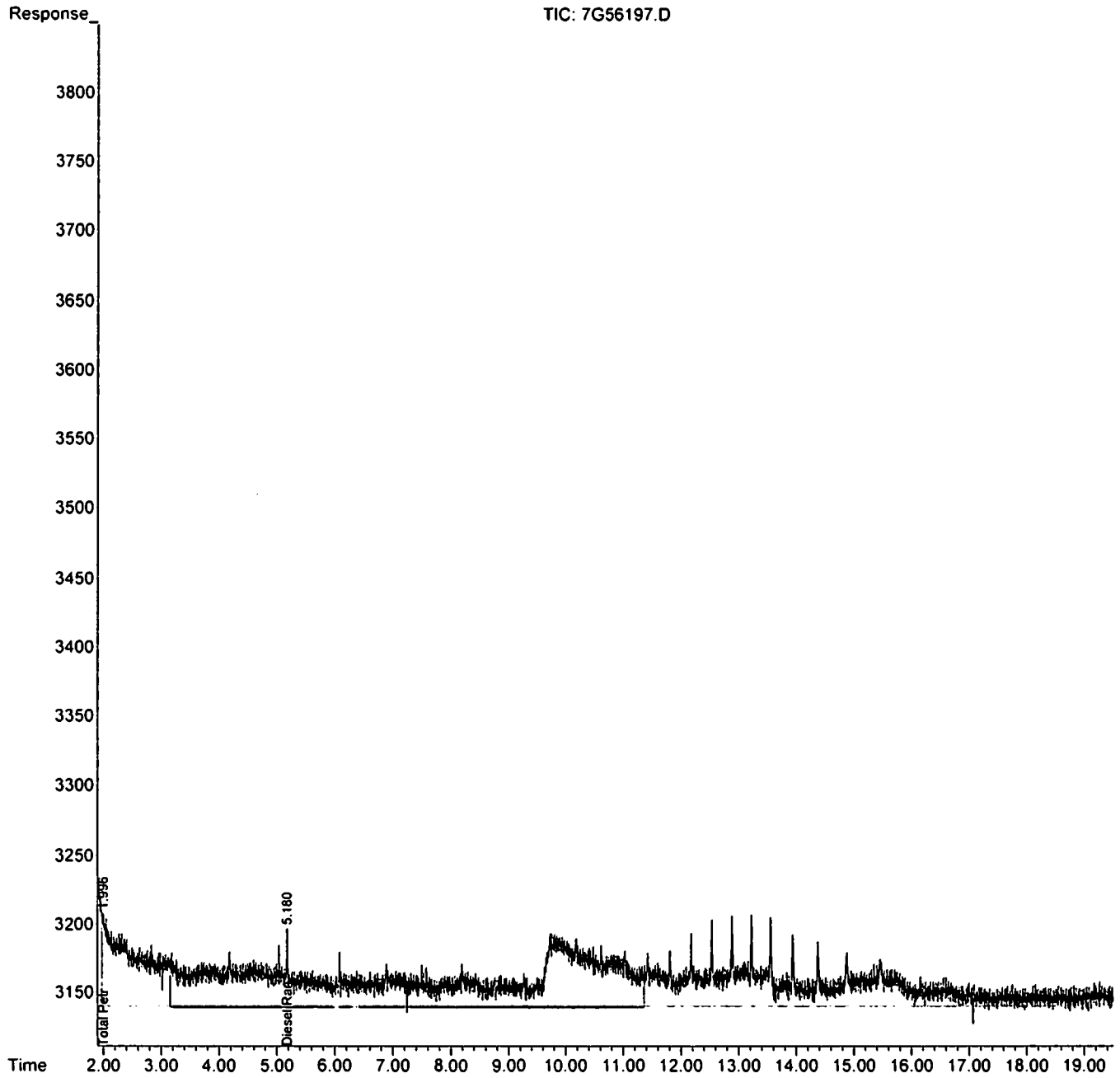
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.180	108944	20.426		m
25)t	Total Petroleum Hydroca	1.996	195935	37.582		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56199.D	SMB95839	S	12/10/21 13:02	1		50	62				
7G56201.D	AD27738-001(MS)	S	12/10/21 14:00	1		45	106				
7G56202.D	AD27738-001(MSD)	S	12/10/21 14:30	1		50	59				
7G56200.D	AD27738-001	S	12/10/21 13:31	1		46	55				
7G56198.D	SMB95839(MS)	S	12/10/21 12:32	1		50	52				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56198.D	SMB95839(MS)	12/10/2021 12:32:00 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1703.58**	**0**	**3000**	**57**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1670.94	0	3000	56	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1829.44	0	3000	61	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Duplicate(If applicable):	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**1829.44**	**1670.94**	**9.1**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95839
Blank Data File: 7G56199.D
Matrix: Soil

Blank Analysis Date: 12/10/21 13:02
Blank Extraction Date: 12/09/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27738-001	7G56200.D	12/10/21 13:31
AD27738-001(MSD	7G56202.D	12/10/21 14:30
AD27738-001(MS)	7G56201.D	12/10/21 14:00
SMB95839(MS)	7G56198.D	12/10/21 12:32

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56195.D	INST BLK	12/10/21 11:12	Soil					
7G56196.D	CAL TPH@20PPM	12/10/21 11:33	Soil	7G56196.	8.1465	0		
7G56197.D	INST BLK	12/10/21 12:03	Soil	7G56196.	0.0000	200		
7G56198.D	SMB95839(MS)	12/10/21 12:32	Soil	7G56196.	8.1418	0.0577		
7G56199.D	SMB95839	12/10/21 13:02	Soil	7G56196.	8.1398	0.0823		
7G56200.D	AD27738-001	12/10/21 13:31	Soil	7G56196.	8.1380	0.1044		
7G56201.D	AD27738-001(MS)	12/10/21 14:00	Soil	7G56196.	8.1391	0.0909		
7G56202.D	AD27738-001(MSD)	12/10/21 14:30	Soil	7G56196.	8.1405	0.0737		
7G56203.D	AD27774-001	12/10/21 15:00	Soil	7G56196.	8.1392	0.0896		
7G56204.D	AD27774-002	12/10/21 15:29	Soil	7G56196.	8.1377	0.1081		
7G56205.D	AD27774-003	12/10/21 15:58	Soil	7G56196.	8.1371	0.1154		
7G56206.D	CAL TPH@20PPM	12/10/21 16:35	Soil	7G56196.	8.1432	0.0405		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1120701 0107

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	---	---	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	---	---	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	---	---	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	---	---	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	---	---	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	---	---	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	---	---	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	---	---	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	---	---	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	---	---	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	---	---	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	---	---	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	---	---	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	---	---	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	---	---	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	---	---	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	---	---	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	---	---	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	---	---	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	---	---	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	---	---	---	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	---	---	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	---	---	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	---	---	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	---	---	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	---	---	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56196.D			7G56206.D										
Method:				8015			8015										
Calibration Name:				CAL TPH@20PPM			CAL TPH@20PPM										
Calibration Date/Time				12/10/21 11:33			12/10/21 16:35										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	13.79	20	31.1*	15.03	20	24.9*									
C9	20	1	0	13.65	20	31.8*	15.26	20	23.7*									
C10	20	1	0	13.61	20	32.0*	14.63	20	26.9*									
C12	20	1	0	14.45	20	27.8*	16.1	20	19.5									
C14	20	1	0	15.21	20	24.0*	15.23	20	23.9*									
C16	20	1	0	15.34	20	23.3*	16.32	20	18.4									
C17	20	1	0	11.21	20	44.0*	15.45	20	22.8*									
Pristane	20	1	0	20.93	20	4.7	18.63	20	6.9									
C18	20	1	0	15.48	20	22.6*	16.23	20	18.9									
Phytane	20	1	0	15.77	20	21.2*	16.8	20	16.0									
C20	20	1	0	16.57	20	17.2	17.74	20	11.3									
C22	20	1	0	16.6	20	17.0	17.59	20	12.1									
C24	20	1	0	16.79	20	16.1	17.63	20	11.9									
C26	20	1	0	16.88	20	15.6	17.8	20	11.0									
C28	20	1	0	17.27	20	13.7	18.21	20	9.0									
C30	20	1	0	17.89	20	10.6	18.72	20	6.4									
C32	20	1	0	18.15	20	9.3	19.34	20	3.3									
C34	20	1	0	18.02	20	9.9	19.56	20	2.2									
C36	20	1	0	17.86	20	10.7	19.38	20	3.1									
C40	20	1	0	16.62	20	16.9	18.36	20	8.2									
C44	20	1	0	15.83	20	20.9*	16.89	20	15.6									
Chlorobenzene	20	1	0	14.25	20	28.8*	15.59	20	22.1*									
O-Terphenyl	20	1	0	16.95	20	15.3	17.99	20	10.1									
Average Difference	20	1	0			20.2			14.2									

Flags/Notes: ** - Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:										
Calibration Name:										
Calibration Date/Time										
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0								
C9	1	0								
C10	1	0								
C12	1	0								
C14	1	0								
C16	1	0								
C17	1	0								
Pristane	1	0								
C18	1	0								
Phytane	1	0								
C20	1	0								
C22	1	0								
C24	1	0								
C26	1	0								
C28	1	0								
C30	1	0								
C32	1	0								
C34	1	0								
C36	1	0								
C40	1	0								
C44	1	0								
Chlorobenzene	1	0								
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)				
Diesel Range Organic	1	0								
Total Petroleum Hydr	1	0								
Ext. Petroleum Hydro	1	0								
Mineral Spirits	1	0								
Stoddard Solvent	1	0								

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD27738-001
Client Id: SB-008 SS
Data File: 13M23229.D
Analysis Date: 12/10/21 16:55
Date Rec/Extracted: 12/07/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 6.82g:10ml
Final Vol: NA
Dilution: 73.3
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	21	U				

Worksheet #: 621872

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23229.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 16:55
Operator : SG
Sample : AD27738-001
Misc : M,MEXT!2
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 13 11:41:42 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

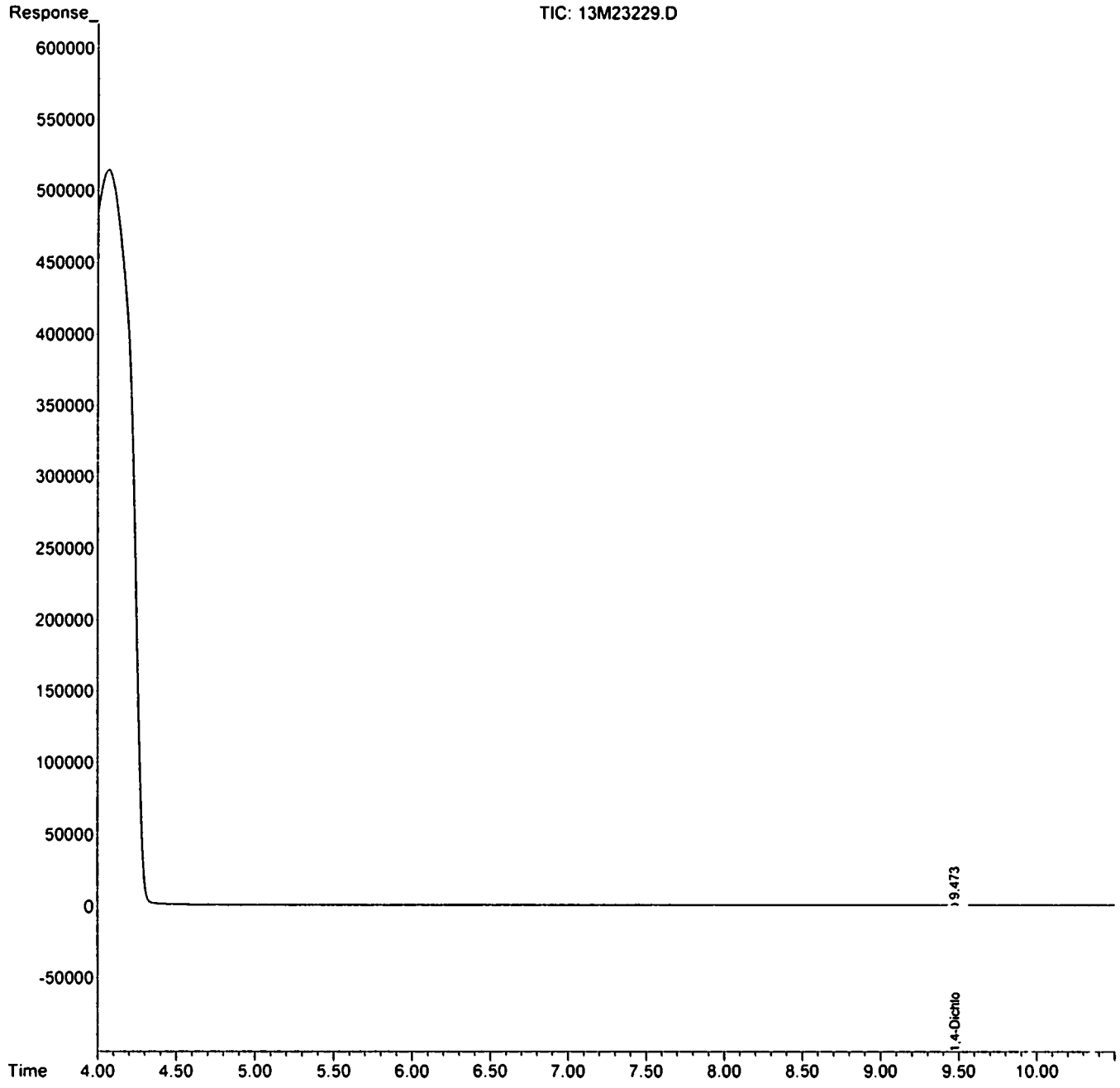
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.473	21702	26.363	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23229.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 16:55
Operator : SG
Sample : AD27738-001
Misc : M,MEXT!2
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 13 11:41:42 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23214.D
Analysis Date: 12/10/21 12:43
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 621872

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23214.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 12:43
Operator : SG
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 16:55:08 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

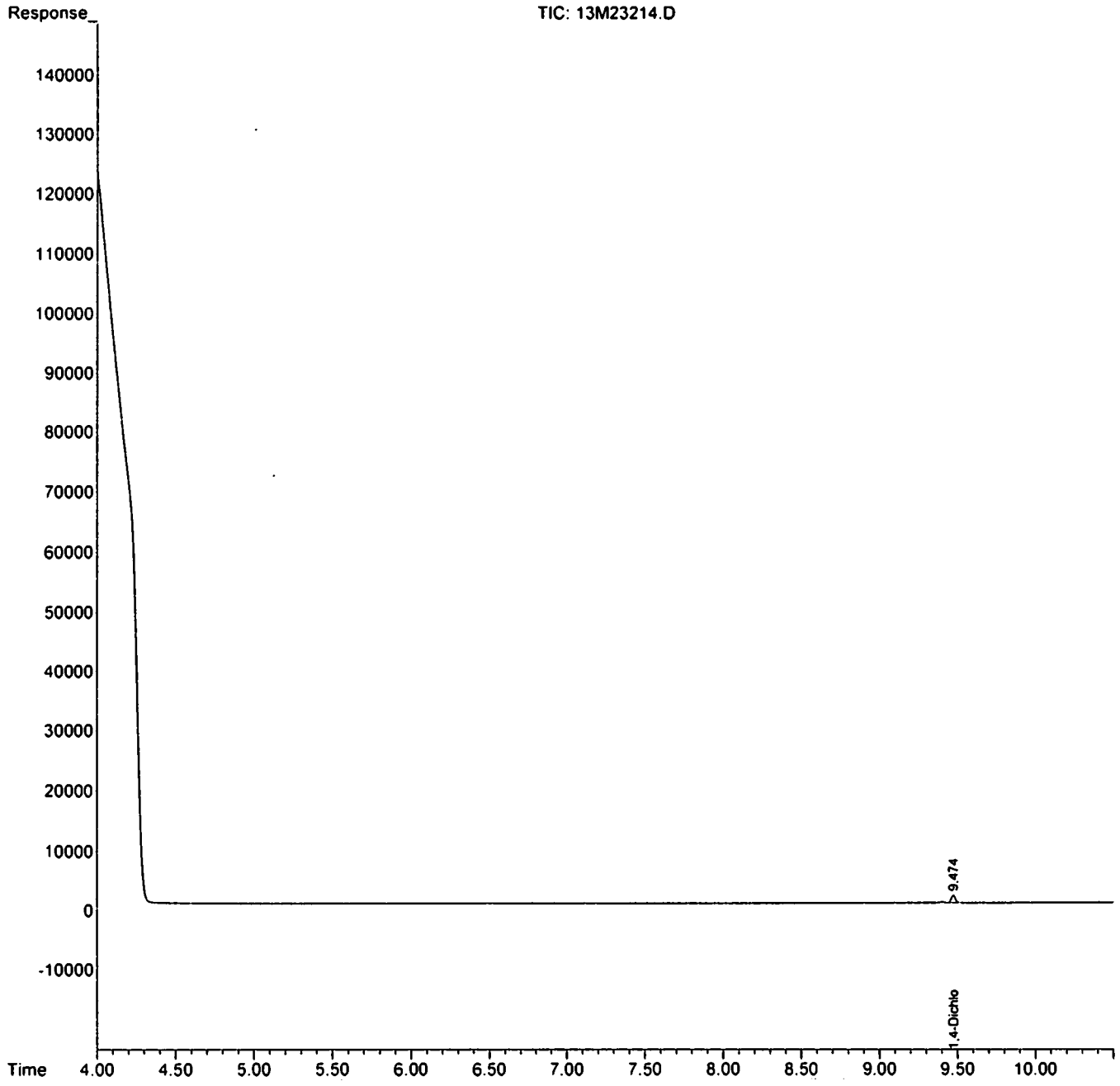
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.474	22306	27.098	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23214.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 12:43
Operator : SG
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 16:55:08 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M23214.D	DAILY BLANK	M	12/10/21 12:43	1		90					
13M23229.D	AD27738-001	M	12/10/21 16:55	1		88					
13M23215.D	AD27710-017	M	12/10/21 12:59	1		100					
13M23216.D	MBS98187	M	12/10/21 13:16	1		120					
13M23217.D	AD27710-017(MS)	M	12/10/21 13:33	1		116					
13M23218.D	AD27710-017(MSD)	M	12/10/21 13:50	1		116					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS98187

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23216.D	MBS98187	12/10/2021 1:16:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2176.94	0	2000	109	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS98187

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23217.D	AD27710-017(MS)	12/10/2021 1:33:00 PM
Non Spike(If applicable):	13M23215.D	AD27710-017	12/10/2021 12:59:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2107.15	0	2000	105	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23218.D	AD27710-017(MSD)	12/10/2021 1:50:00 PM
Non Spike(If applicable):	13M23215.D	AD27710-017	12/10/2021 12:59:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2104.92	0	2000	105	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS98187

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23218.D	AD27710-017(MSD)	12/10/2021 1:50:00 PM
Duplicate(If applicable):	13M23217.D	AD27710-017(MS)	12/10/2021 1:33:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2104.92	2107.15	0.11	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23214.D
Matrix: Methanol

Blank Analysis Date: 12/10/21 12:43
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27738-001	13M23229.D	12/10/21 16:55
AD27710-017(MSD	13M23218.D	12/10/21 13:50
AD27710-017(MS)	13M23217.D	12/10/21 13:33
MBS98187	13M23216.D	12/10/21 13:16
AD27710-017	13M23215.D	12/10/21 12:59

Form 5

Method: EPA 8015D

Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23111.D	BLK	11/24/21 07:34	Aqueous	13M2315	9.4811	0.3667		
13M23114.D	CAL @ 250 PPB	11/24/21 08:24	Aqueous	13M2312	9.4798	0.2313		
13M23116.D	CAL @ 500 PPB	11/24/21 08:57	Aqueous	13M2312	9.4683	0.1099		
13M23118.D	CAL @ 750 PPB	11/24/21 09:30	Aqueous	13M2312	9.4693	0.1205		
13M23120.D	CAL @ 1000 PPB	11/24/21 10:04	Aqueous	13M2312	9.4613	0.0359		
13M23124.D	CAL @ 1500 PPB	11/24/21 11:35	Aqueous	13M2312	9.4803	0.2366		
13M23126.D	CAL @ 2000 PPB	11/24/21 12:08	Aqueous	13M2312	9.4597	0.019		
13M23128.D	CAL @ 4000 PPB	11/24/21 12:41	Aqueous	13M2312	9.4579	0		
13M23131.D	ICV	11/24/21 13:31	Aqueous	13M2312	9.4569	0.0106		
13M23134.D	DAILY BLANK	11/24/21 14:21	Methanol	13M2312	9.4528	0.0539		
13M23135.D	DAILY BLANK	11/24/21 14:37	Aqueous	13M2312	9.4491	0.0931		
13M23136.D	STD	11/24/21 14:58	Aqueous	13M2312	9.4595	0.0169		
13M23137.D	BLK	11/24/21 15:14	Aqueous	13M2312	9.4511	0.0719		
13M23138.D	BLK	11/24/21 15:30	Methanol	13M2312	9.4466	0.1195		
13M23139.D	BLK	11/24/21 15:47	Methanol	13M2312	9.4414	0.1746		
13M23140.D	AD27002-003(80uL)	11/24/21 16:03	Methanol	13M2312	9.4461	0.1248		
13M23141.D	BLK	11/24/21 16:20	Methanol	13M2312	9.4476	0.109		
13M23142.D	BLK	11/24/21 16:36	Methanol	13M2312	9.4552	0.0286		
13M23143.D	AD27002-003(400uL)	11/24/21 16:53	Methanol	13M2312	9.4609	0.0317		
13M23144.D	BLK	11/24/21 17:09	Methanol	13M2312	9.4552	0.0286		
13M23145.D	MBS97290	11/24/21 17:26	Methanol	13M2312	9.4541	0.0402		
13M23146.D	MBS97291	11/24/21 17:42	Aqueous	13M2312	9.4548	0.0328		
13M23147.D	AD27503-008(MS)	11/24/21 17:59	Methanol	13M2312	9.4481	0.1037		
13M23148.D	AD27503-008(MSD)	11/24/21 18:15	Methanol	13M2312	9.4456	0.1301		
13M23149.D	BLK	11/24/21 18:32	Aqueous	13M2312	9.4479	0.1058		
13M23150.D	AD27564-001	11/24/21 18:48	Methanol	13M2312	9.4461	0.1248		
13M23151.D	BLK	11/24/21 19:05	Aqueous	13M2312	9.4491	0.0931		
13M23152.D	MBS97292	11/24/21 19:21	Methanol	13M2312	9.4473	0.1121		
13M23153.D	CAL @ 2000 PPB	11/24/21 19:37	Aqueous	13M2312	9.4464	0.1217		
13M23154.D	2000 PPB	11/24/21 19:54	Aqueous	13M2315	9.4500	0.0381		
13M23155.D	BLK	11/24/21 20:11	Aqueous	13M2315	9.4477	0.0138		
13M23156.D	BLK	11/24/21 20:28	Aqueous	13M2315	9.4474	0.0106		
13M23157.D	BLK	11/24/21 20:45	Aqueous	13M2315	9.4486	0.0233		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23210.D	BLK	12/10/21 11:36	Aqueous	13M2323	9.5050	0.408		
13M23211.D	CAL @ 2000 PPB	12/10/21 11:53	Aqueous	13M2321	9.4822	0		
13M23212.D	BLK	12/10/21 12:09	Aqueous	13M2321	9.4803	0.02		
13M23213.D	BLK	12/10/21 12:26	Methanol	13M2321	9.4755	0.0707		
13M23214.D	DAILY BLANK	12/10/21 12:43	Methanol	13M2321	9.4743	0.0833		
13M23215.D	AD27710-017	12/10/21 12:59	Methanol	13M2321	9.4701	0.1277		
13M23216.D	MBS98187	12/10/21 13:16	Methanol	13M2321	9.4783	0.0411		
13M23217.D	AD27710-017(MS)	12/10/21 13:33	Methanol	13M2321	9.4800	0.0232		
13M23218.D	AD27710-017(MSD)	12/10/21 13:50	Methanol	13M2321	9.4776	0.0485		
13M23219.D	STD	12/10/21 14:06	Aqueous	13M2321	9.4746	0.0802		
13M23220.D	BLK	12/10/21 14:23	Aqueous	13M2321	9.4624	0.209		
13M23221.D	AD27728-004	12/10/21 14:40	Methanol	13M2321	9.4674	0.1562		
13M23222.D	AD27728-008	12/10/21 14:57	Methanol	13M2321	9.4667	0.1636		
13M23223.D	AD27728-012	12/10/21 15:15	Methanol	13M2321	9.4661	0.1699		
13M23224.D	AD27728-016	12/10/21 15:31	Methanol	13M2321	9.4680	0.1499		
13M23225.D	AD27758-004	12/10/21 15:48	Methanol	13M2321	9.4683	0.1467		
13M23226.D	AD27758-005	12/10/21 16:05	Methanol	13M2321	9.4807	0.0158		
13M23227.D	AD27758-006	12/10/21 16:21	Methanol	13M2321	9.4764	0.0612		
13M23228.D	AD27758-007	12/10/21 16:39	Methanol	13M2321	9.4761	0.0643		
13M23229.D	AD27738-001	12/10/21 16:55	Methanol	13M2321	9.4735	0.0918		
13M23230.D	AD27774-001	12/10/21 17:12	Methanol	13M2321	9.4663	0.1678		
13M23231.D	AD27774-002	12/10/21 17:29	Methanol	13M2321	9.4710	0.1182		
13M23232.D	AD27774-003	12/10/21 17:47	Methanol	13M2321	9.4261	0.5934		
13M23233.D	BLK	12/10/21 18:03	Methanol	13M2321	9.4671	0.1594		
13M23234.D	AD27810-001	12/10/21 18:20	Methanol	13M2321	9.4661	0.1699		
13M23235.D	AD27810-002	12/10/21 18:37	Methanol	13M2321	9.4723	0.1045		
13M23236.D	BLK	12/10/21 18:54	Aqueous	13M2321	9.4656	0.1752		
13M23237.D	BLK	12/10/21 19:10	Aqueous	13M2321	9.4604	0.2302		
13M23238.D	CAL @ 2000PPB	12/10/21 19:27	Aqueous	13M2321	9.4628	0.2048		
13M23239.D	CAL @ 2000PPB	12/10/21 19:44	Aqueous	13M2323	9.4663	0.037		
13M23240.D	BLK	12/10/21 20:01	Aqueous	13M2323	9.4605	0.0243		
13M23241.D	BLK	12/10/21 20:17	Aqueous	13M2323	9.4628	0		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1120701 0124

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M23128.	CAL @ 4000 PPB	11/24/21 12:41	2	13M23126.	CAL @ 2000 PPB	11/24/21 12:08
3	13M23124.	CAL @ 1500 PPB	11/24/21 11:35	4	13M23120.	CAL @ 1000 PPB	11/24/21 10:04
5	13M23118.	CAL @ 750 PPB	11/24/21 09:30	6	13M23116.	CAL @ 500 PPB	11/24/21 08:57
7	13M23114.	CAL @ 250 PPB	11/24/21 08:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1152	0.0918	0.0778	0.0779	0.0742	0.0704	0.0686	----	0.0823	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0009	0.0008	0.0008	0.0010	0.0009	0.0009	0.0008	----	0.000910	5.44	0.992	0.996	8.8	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0015	0.0013	0.0014	0.0014	0.0014	0.0016	----	0.00150	9.27	0.997	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0784	0.0756	0.0792	0.0709	0.0701	0.0597	0.0754	----	0.0728	8.51	0.999	0.999	9.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.5 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 , Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M23211.D			13M23238.D										
Method:			8015			8015										
Calibration Name:			CAL @ 2000 PPB			CAL @ 2000PPB										
Calibration Date/Time			12/10/21 11:53			12/10/21 19:27										
			Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1701	2000	14.9	1815	2000	9.3									

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27738-001	% Solid:	87	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-008 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/7/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.7	6.3	1	0.5	50	12/09/21	96659	S27972A3	40	P	PEICP3A
7439-92-1	Lead	5.7	ND	1	0.5	50	12/09/21	96659	S27972A3	40	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27738-001	% Solid:	87	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-008 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/7/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.23	1.0	1	0.5	100	12/08/21	966600	821CNEW	47	MS	MS3_7700SWA
7440-43-9	Cadmium	0.46	ND	1	0.5	100	12/08/21	966600	821CNEW	47	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96659 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96659 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-36-0	Antimony	2.0	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-38-2	Arsenic	2.0	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-41-7	Beryllium	0.60	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-43-9	Cadmium	0.60	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-22-4	Silver	0.75	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-28-0	Thallium	2.5	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-31-5	Tin	10	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-32-6	Titanium	5.0	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	12/09/21	96659	S27972A3	14	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96660 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96660 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	MI	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	12/08/21	96660	0821CNEW	20	MS	S3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/09/21
Data File: S27972A3
Prep Batch: 96659
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-12	Rec	CCV V-360409-23	Rec	CCV V-360409-34	Rec	CCV V-360409-44	Rec		Rec		Rec		Rec
Aluminum	5/5	4.84895	97	4.85298	97	4.99506	100	5.00788	100	4.93372	99						
Barium	.5/.5	0.48584	97	0.48527	97	0.50344	101	0.50865	102	0.50317	101						
Calcium	50/50	49.51340	99	50.23880	100	50.95950	102	51.80770	104	50.81710	102						
Chromium	.5/.5	0.48599	97	0.48721	97	0.50490	101	0.50828	102	0.50307	101						
Cobalt	.5/.5	0.49974	100	0.50372	101	0.51388	103	0.51753	104	0.50762	102						
Copper	.5/.5	0.49803	100	0.48952	98	0.49734	99	0.49107	98	0.48756	98						
Iron	5/5	4.86519	97	4.86338	97	5.03595	101	5.02407	100	4.96892	99						
Lead	.5/.5	0.48782	96	0.49059	98	0.50388	101	0.51126	102	0.50107	100						
Magnesium	50/50	48.83390	98	50.86160	102	50.89520	102	50.23420	100	49.75180	100						
Manganese	.5/.5	0.49369	99	0.49259	99	0.50575	101	0.50999	102	0.50485	101						
Nickel	.5/.5	0.50515	101	0.51108	102	0.52038	104	0.52971	106	0.52095	104						
Zinc	.5/.5	0.50076	100	0.49354	99	0.51347	103	0.51349	103	0.50373	101						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/09/21
Data File: S27972A3
Prep Batch: 96659
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360414	Recovery	Low Limit	High Limit		LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	5.31450	106	80	120		500	505.363	101	90	110
Aluminum	2.0	1.99787	100	80	120		500	511.894	102	90	110
Arsenic	0.04	0.0410128	103	80	120		10	10.2909	103	90	110
Boron	0.2	0.0998746	50 a	80	120		5	4.65004	93	90	110
Barium	0.1	0.103815	104	80	120		10	10.3057	103	90	110
Beryllium	0.012	0.0159015	133 a	80	120		5	4.94619	99	90	110
Calcium	10	10.2481	102	80	120		500	474.792	95	90	110
Cadmium	0.012	0.0110240	92	80	120		5	5.38130	108	90	110
Cerium	0.2	0.251	126 a	80	120		25	24.36	97	90	110
Cobalt	0.025	0.0236239	94	80	120		5	4.92505	99	90	110
Chromium	0.05	0.0531922	106	80	120		10	9.88927	99	90	110
Copper	0.05	0.0508394	102	80	120		10	10.7867	108	90	110
Silver	0.015	0.0165489	110	80	120		1	1.11872	112 a	90	110
Potassium	NA	-16.9663		80	120		200	-272.588	-140 a	90	110
Zinc	0.1	0.0945346	95	80	120		10	9.71589	97	90	110
Manganese	0.1	0.100692	101	80	120		10	10.0682	101	90	110
Molybdenum	0.025	0.0278175	111	80	120		10	9.89024	99	90	110
Sodium	NA	3.08013		80	120		1000	1194.89	119 a	90	110
Nickel	0.05	0.0478245	96	80	120		10	9.80969	98	90	110
Lead	0.05	0.0545533	109	80	120		10	9.86292	99	90	110
Antimony	0.04	0.0429202	107	80	120		5	5.40237	108	90	110
Selenium	0.05	0.0534749	107	80	120		5	4.96610	99	90	110
Silicon	0.2	0.265421	133 a	80	120		25	25.5933	102	90	110
Tin	0.2	0.199438	100	80	120		10	10.1556	102	90	110
Titanium	0.1	0.0996551	100	80	120		10	10.3133	103	90	110
Thallium	0.05	0.0596613	119	80	120		5	4.96429	99	90	110
Vanadium	0.1	0.101499	101	80	120		10	9.37581	94	90	110
Iron	2.0	2.01739	101	80	120		400	391.561	98	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/08/21
Data File: S120821CNEW
Prep Batch: 96660
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-363138-9	Rec	CCV V-363142-18	Rec	CCV V-363142-26	Rec	CCV V-363142-38	Rec	CCV V-363142-50	Rec	CCV V-363142-55	Rec		Rec		Rec
Antimony	50/50	50.56600	101	52.06900	104	50.60300	101	50.63500	101	51.87500	104	51.61100	103				
Arsenic	50/50	51.85400	104	50.39100	101	50.56500	101	50.55900	101	51.36700	103	51.32500	103				
Beryllium	50/50	51.69300	103	52.30300	105	53.69900	107	49.85300	100	53.01300	106	53.21600	106				
Cadmium	50/50	49.90900	100	51.14800	102	49.99400	100	50.04200	100	50.75000	102	50.36100	101				
Potassium	5000/5000	5204.2250 ^	104	5106.0920 ^	102	5185.3090 ^	104	5075.9720 ^	102	5177.9660 ^	104	5132.6090 ^	103				
Selenium	50/250	50.39400	101	252.82800	101	255.37200	102	253.26900	101	255.37300	102	255.77600	102				
Silver	10/50	10.13000	101	52.03800	104	50.20800	100	50.68500	102	51.82500	104	51.42400	103				
Sodium	5000/5000	5186.4220 ^	104	5099.3240 ^	102	5082.2490 ^	102	5059.5350 ^	101	5103.0200 ^	102	5078.0780 ^	102				
Thallium	50/50	48.62600	97	53.40500	107	49.32000	99	51.80100	104	52.90500	106	52.89000	106				
Vanadium	50/50	50.53400	101	51.07000	102	51.14700	102	50.48800	101	51.29800	103	50.84500	102				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/08/21
Data File: S120821CNEW
Prep Batch: 96660
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-363143	Recovery	Low Limit	High Limit		LRS Spike Amount	LRS V-363141	Recovery	Low Limit	High Limit	
Magnesium	500	522.110	104	80	120		50000	51394.178	103	90	110	
Aluminum	500	516.784	103	80	120		15000	15527.861	104	90	110	
Arsenic	1	1.074	107	80	120		500	520.691	104	90	110	
Barium	5	5.251	105	80	120		500	508.219	102	90	110	
Beryllium	1	1.102	110	80	120		500	518.368	104	90	110	
Calcium	500	490.489	98	80	120		50000	53694.178	107	90	110	
Cadmium	2	2.033	102	80	120		500	503.604	101	90	110	
Cobalt	2	2.075	104	80	120		500	501.267	100	90	110	
Chromium	2	2.152	108	80	120		500	510.183	102	90	110	
Copper	10	9.417	94	80	120		500	501.482	100	90	110	
Silver	1	0.929	93	80	120		500	99.173	20 a	90	110	
Potassium	500	498.188	100	80	120		50000	52794.216	106	90	110	
Zinc	20	20.199	101	80	120		500	503.718	101	90	110	
Manganese	6	6.148	102	80	120		500	513.317	103	90	110	
Molybdenum	1	1.070	107	80	120		500	512.139	102	90	110	
Sodium	500	459.343	92	80	120		50000	52106.365	104	90	110	
Nickel	3	2.919	97	80	120		500	508.398	102	90	110	
Lead	2	1.994	100	80	120		500	495.006	99	90	110	
Antimony	4	4.073	102	80	120		500	502.618	101	90	110	
Selenium	10	10.232	102	80	120		2500	2544.740	102	90	110	
Thallium	2	2.127	106	80	120		500	500.773	100	90	110	
Vanadium	1	1.070	107	80	120		500	518.270	104	90	110	
Iron	500	525.475	105	80	120		50000	51321.513	103	90	110	

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/09/21
Data File: S27972A3
Prep Batch: 96659
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-6	CCB V-360404-13	CCB V-360404-24	CCB V-360404-35	CCB V-360404-45	MB 96659 (100)-14		
Aluminum	1 U	2 U	2 U	2 U	2 U	100U		
Barium	.05 U	.1 U	.1 U	.1 U	.1 U	5U		
Calcium	5 U	10 U	10 U	10 U	10 U	500U		
Chromium	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Cobalt	.0125 U	.025 U	.025 U	.025 U	.025 U	1.3U		
Copper	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Iron	1 U	2 U	2 U	2 U	2 U	100U		
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Magnesium	2.5 U	5 U	5 U	5 U	5 U	250U		
Manganese	.05 U	.1 U	.1 U	.1 U	.1 U	5U		
Nickel	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U		
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	5U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/08/21
Data File: S120821CNEW
Prep Batch: 96660
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-363139-11	CCB V-363139-19	CCB V-363139-27	CCB V-363139-39	CCB V-363139-51	CCB V-363139-56	MB 96660-20
Antimony	2U	4U	4U	4U	4U	4U	400U
Arsenic	.5U	1U	1U	1U	1U	1U	100U
Beryllium	.5U	1U	1U	1U	1U	1U	100U
Cadmium	1U	2U	2U	2U	2U	2U	200U
Potassium	250U	500U	500U	500U	500U	500U	50000U
Selenium	5U	10U	10U	10U	10U	10U	1000U
Silver	.5U	1U	1U	1U	1U	1U	100U
Sodium	250U	500U	500U	500U	500U	500U	50000U
Thallium	1U	2U	2U	2U	2U	2U	200U
Vanadium	.5U	1U	1U	1U	1U	1U	100U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/09/21
Data File: S27972A3
Prep Batch: 96659
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	500.674	100							
Barium	0	U								
Calcium	500	471.70€	94							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	190.617	95							
Lead	0	U								
Magnesium	500	496.76€	99							
Manganese	0	U								
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/08/21
Data File: S120821CNEW
Prep Batch: 96660
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120701

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-363140-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	51353.57	103							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	159475.7	106							
Iron	125000	128102.8	102							
Magnesium	50000	51132.34	102							
Potassium	50000	52837.32	106							
Selenium	0	U								
Silver	0	U								
Sodium	125000	129827.8	104							
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96659

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96659

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96659	1	S27972A3	16	0.6541	.734	89		67	125
Lead	96659	1	S27972A3	16	1.7365	1.86	93		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96659

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96659	1	S27972A3	15	0.6670	.734	91		67	125
Lead	96659	1	S27972A3	15	1.7965	1.86	97		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD27733-021

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96659	1	S27972A3	20	S27972A3	17	0.5743	0.0946	0.5	96		75	125
Lead	96659	1	S27972A3	20	S27972A3	17	0.5081	0.05U	0.5	102		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27733-021

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96659	1	S27972A3	19	S27972A3	17	0.5481	0.0946	0.5	91		75	125
Lead	96659	1	S27972A3	19	S27972A3	17	0.4841	0.05U	0.5	97		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96659

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27733-021

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S27972A3	21	S27972A3	17	0.5884	0.0946	0.50	99		75	125
Lead	1	S27972A3	21	S27972A3	17	0.5307	0.05U	0.50	106		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96660

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96660

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96660	1	S120821C	22	225.9620	225	100		65	121
Cadmium	96660	1	S120821C	22	247.8150	249	100		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96660

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96660	1	S120821C	21	228.6600	225	102		65	121
Cadmium	96660	1	S120821C	21	251.2010	249	101		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD27733-021

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96660	1	S120821C	32	S120821C	28	245.1240	11.9460	250	93		75	125
Cadmium	96660	1	S120821C	32	S120821C	28	231.3190	2U	250	93		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27733-021

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96660	1	S120821C	31	S120821C	28	253.7200	11.9460	250	97		75	125
Cadmium	96660	1	S120821C	31	S120821C	28	240.9570	2U	250	96		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96660

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS | Matrix: SOIL | SampleID: AD27733-021

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S120821C	33	S120821C	28	63.2390	11.9460	50	103		75	125
Cadmium	1	S120821C	33	S120821C	28	51.3610	2U	50	103		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96659

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR | Matrix: SOIL | SampleID: LCS MR 96659

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96659	S27972A3	16	S27972A3	15	0.6541	0.6670	2	20
Lead	96659	S27972A3	16	S27972A3	15	1.7365	1.7965	3.4	20

TxtQcType: MR | Matrix: SOIL | SampleID: AD27733-021

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96659	S27972A3	18	S27972A3	17	0.0918	0.0946	3	20
Lead	96659	S27972A3	18	S27972A3	17	0.05U	0.05U	---	20

TxtQcType: MSD | Matrix: SOIL | SampleID: AD27733-021

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96659	S27972A3	20	S27972A3	19	0.5743	0.5481	4.7	20
Lead	96659	S27972A3	20	S27972A3	19	0.5081	0.4841	4.8	20

TxtQcType: SD | Matrix: SOIL | SampleID: AD27733-021

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	96659	S27972A3	22	S27972A3	17	5	0.0180	0.0946	4.6		10
Lead	96659	S27972A3	22	S27972A3	17	5	0.0120	0.0369	62	c	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH:96660

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96660

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	96660	S120821C	22	S120821C	21	225.9620	228.6600	1.2		20
Cadmium	96660	S120821C	22	S120821C	21	247.8150	251.2010	1.4		20

TxtQcType: MR Matrix: SOIL SampleID: AD27733-021

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	96660	S120821C	29	S120821C	28	23.0750	11.9460	64	a	20
Cadmium	96660	S120821C	29	S120821C	28	2U	2U	---		20

TxtQcType: MSD Matrix: SOIL SampleID: AD27733-021

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	96660	S120821C	32	S120821C	31	245.1240	253.7200	3.4		20
Cadmium	96660	S120821C	32	S120821C	31	231.3190	240.9570	4.1		20

TxtQcType: SD Matrix: SOIL SampleID: AD27733-021

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	96660	S120821C	30	S120821C	28	5	2.3780	11.9460	0.47		20
Cadmium	96660	S120821C	30	S120821C	28	5	0.0350	0.1970	11	c	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 27472 Analyst: KJ

QC Number: 96659 Prep Date: 12/8/21

Matrix: SOIL (6010) Reviewed By: DL

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL				--	
LCS	0.5g					--	
LCSD						--	
1. 27733 -021							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -021							
MR -021							
MS -021							Balance used: 039
MSD -021							Pipettes used: 153, 149
2. 27731 -022							
3. 27736 -002							Hot Block used: 4
4. 27728 -004							
5. -008							
6. -012							
7. -016							
8. 27714 -001							
9. -002							
10. 27726 -001							
11. 27750 -001							
12. -002							
13. -003							
14. -004							
15. 27738 -001							
16. 27747 -001							
17. -001							
18. 27759 -001							
19.							
20.							

Hot Plate Temperature: 92.3° C (90-95° C) Start Time: 12:20PM End Time: 2:30PM

	Volume mL	Lot #
LCS, LCSD	0.5g	V-14201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V-13719, 13730, 358844
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5mL	V- 14296
HCl	5.0mL	V- 14217
H_2O_2	1.5mL	V- 14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0mL	V- 359944
1:1 HCl		V-

Relinquished By KJ Date 12/8/21

Received By DL Date 12/9/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 27973 Analyst: KJ

QC Number: 96660 Prep Date: 12/8/21

Matrix: SOIL (6020) Reviewed By:

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		–	
LCS						–	
LCSD						–	
1. 27733 -021							Samples are combined prior to analysis to provide extra sample volume for analysis
~~1. Analytical Duplicate~~							
MR -021							
MS -021							Balance used: 039
MSD -021							Pipettes used: 153, 149
2. 27733 -022							
3. 27736 -004							Hot Block used: 5
4. 27738 -008							
5. -018							
6. -018							
12/8 KJ 7. ~~27744~~ -006							
8. 27754 -002							
12/8 KJ 9. ~~27758~~ -002							
10. 27726 -001							
11. 27750 -001							
12. -002							
13. -003							
14. -004							
15. 27718 -001							
16. 27747 -001							
17. -003							
18. 27759 -001							
19.							
20.							

Hot Plate Temperature: 93.0 C (90-95° C) Start Time: 12:20PM End Time: 2:30PM

	Volume mL	Lot #
LCS, LCSD	0.1	V- 14101
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 13729, 13730
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5mL	V- 14996
HCl	1.0mL	V- 14217
H_2O_2	1.5mL	V- 14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0mL	V- 359994
1:1 HCl		V-

Relinquished By KJ Date 12/8/21

Received By Date 12/8/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27972A3.txt

Analysis Date: 12/09/21 **Instrument:** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-360404	1	CAL	09:39	1							V-360404(ICB/CCB)
CALST2 V-360414	1	CAL	09:43	2							V-360414(LLICV/LLCCV soil)
CALST3 V-360405	1	CAL	09:47	3							V-360405(ICS3 - Middle Std)
CALST4 V-360406	1	CAL	09:51	4							V-360406(ICS4 High std)
ICV V-360409	1	ICV	09:55	5							V-360409(CCV)
ICB V-360404	1	ICB	09:59	6							V-360404(ICB/CCB)
LRS V-360412	1	LRS	10:02	7	MET-TAL6010S	SOIL	SOIL	SW846	96659		V-360412(LRS)
ICS3 V-360405	1	ICS	10:07	8							V-360405(ICS3 - Middle Std)
RINSE	1	NA	10:11	9		SOIL	SOIL	SW846	96659		0
LLICV V-360414	1	LLICV	10:15	10	MET-TAL6010S	SOIL	SOIL	SW846	96659		V-360414(LLICV/LLCCV soil)
ICSA V-360410	1	ICSA	10:18	11							V-360410(ICSA)
CCV V-360409	1	CCV	10:23	12							V-360409(CCV)
CCB V-360404	1	CCB	10:27	13							V-360404(ICB/CCB)
MB 96659 (100)	1	MB	10:31	14	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
LCS 96659	1	LCS	10:35	15	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
LCS MR 96659	1	LCS	10:40	16	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27733-021	1	SMP	10:45	17	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27733-021	1	MR	10:49	18	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27733-021	1	MS	10:54	19	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27733-021	1	MSD	10:59	20	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27733-021	1	PS	11:03	21	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27733-021	5	SD	11:08	22	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
CCV V-360409	1	CCV	11:12	23							V-360409(CCV)
CCB V-360404	1	CCB	11:16	24							V-360404(ICB/CCB)
AD27733-022	1	SMP	11:20	25	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27736-002	1	SMP	11:24	26	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27728-004	1	SMP	11:29	27	MET-RCRA-S	SOIL	SOIL	SW846	96659		0
AD27728-008	1	SMP	11:33	28	MET-RCRA-S	SOIL	SOIL	SW846	96659		0
AD27728-012	1	SMP	11:37	29	MET-RCRA-S	SOIL	SOIL	SW846	96659		0
AD27728-016	1	SMP	11:41	30	MET-RCRA-S	SOIL	SOIL	SW846	96659		0
AD27714-001	1	SMP	11:45	31	MET-RCRA-S	SOIL	SOIL	SW846	96659		0
AD27714-002	1	SMP	11:49	32	MET-RCRA-S	SOIL	SOIL	SW846	96659		0
AD27726-001	1	SMP	11:53	33	MET-RCRA-S	SOIL	SOIL	SW846	96659	Al>LRS Al,Pb not reported	0
CCV V-360409	1	CCV	11:58	34							V-360409(CCV)
CCB V-360404	1	CCB	12:02	35							V-360404(ICB/CCB)
AD27750-001	1	SMP	12:06	36	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27750-002	1	SMP	12:10	37	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27750-003	1	SMP	12:15	38	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27750-004	1	SMP	12:20	39	MET-TAL6010S	SOIL	SOIL	SW846	96659	Mn>LRS not reported	0
AD27738-001	1	SMP	12:24	40	MET-RCRA-S	SOIL	SOIL	SW846	96659		0
AD27747-001	1	SMP	12:28	41	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27747-003	1	SMP	12:33	42	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
AD27759-001	1	SMP	12:38	43	MET-TAL6010S	SOIL	SOIL	SW846	96659		0
CCV V-360409	1	CCV	12:43	44							V-360409(CCV)
CCB V-360404	1	CCB	12:47	45							V-360404(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 12/9/2021 1:17:53 PM

Run is OK All elements reported

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S120821CNEW.txt

Analysis Date: 12/08/21 **Instrument** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	17:28	1		SOIL	SOIL	SW846	96660		0
RINSE	1	NA	17:32	2		SOIL	SOIL	SW846	96660		0
CalBlk V-363132	1	ISBLK	17:37	3		SOIL	SOIL				V-363132(Cal Blk WARNING)
CalStd1 V-363133	1	CAL	17:41	4							V-363133(Cal Std-1 WARNING)
CalStd2 V-363134	1	CAL	17:46	5							V-363134(Cal Std-2 WARNING)
CalStd3 V-363135	1	CAL	17:50	6							V-363135(Cal Std-3 WARNING)
CalStd4 V-363136	1	CAL	17:55	7							V-363136(Cal Std-4 WARNING)
CalStd5 V-363137	1	CAL	17:59	8							V-363137(Cal Std-5 WARNING)
ICV V-363138	1	ICV	18:05	9							V-363138(ICV WARNING)
LLICV V-363143	1	LLICV	18:09	10		SOIL	SOIL	SW846	96660		V-363143(LL-ICV/CCV SOIL WARNING)
ICB V-363139	1	ICB	18:14	11							V-363139(ICB/CCB WARNING)
ICSA V-363140	1	ICSA	18:18	12							V-363140(ICSA WARNING)
RINSE	1	NA	18:23	13		SOIL	SOIL	SW846	96660		0
LRS V-363141	1	LRS	18:27	14		SOIL	SOIL	SW846	96660	Ag fail	V-363141(LRS WARNING)
RINSE	1	NA	18:31	15		SOIL	SOIL	SW846	96660		0
RINSE	1	NA	18:36	16		SOIL	SOIL	SW846	96660		0
RINSE	1	NA	18:40	17		SOIL	SOIL	SW846	96660		0
CCV V-363142	1	CCV	18:45	18							V-363142(CCV WARNING)
CCB V-363139	1	CCB	18:49	19							V-363139(ICB/CCB WARNING)
MB 96660	1	MB	18:54	20		SOIL	SOIL	SW846	96660		0
LCS 96660	1	LCS	18:58	21		SOIL	SOIL	SW846	96660		0
LCS MR 96660	1	LCS	19:02	22		SOIL	SOIL	SW846	96660		0
AD27714-001	1	SMP	19:07	23	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
AD27714-002	1	SMP	19:11	24	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
AD27726-001	1	SMP	19:15	25	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
CCV V-363142	1	CCV	19:20	26							V-363142(CCV WARNING)
CCB V-363139	1	CCB	19:24	27							V-363139(ICB/CCB WARNING)
AD27733-021	1	SMP	19:28	28	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27733-021	1	MR	19:33	29	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27733-021	5	SD	19:37	30	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27733-021	1	MS	19:42	31	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27733-021	1	MSD	19:46	32	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27733-021	1	PS	19:50	33	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27733-022	1	SMP	19:54	34	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27736-002	1	SMP	19:59	35	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27728-004	1	SMP	20:03	36	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
RINSE	1	NA	20:07	37		SOIL	SOIL	SW846	96660		0
CCV V-363142	1	CCV	20:12	38							V-363142(CCV WARNING)
CCB V-363139	1	CCB	20:16	39							V-363139(ICB/CCB WARNING)
AD27728-008	1	SMP	20:21	40	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
AD27728-012	1	SMP	20:25	41	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
AD27728-016	1	SMP	20:29	42	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
AD27750-001	1	SMP	20:34	43	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27750-002	1	SMP	20:38	44	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27750-003	1	SMP	20:42	45	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27750-004	1	SMP	20:47	46	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27738-001	1	SMP	20:51	47	MET-RCRA-MS	SOIL	SOIL	SW846	96660		0
AD27747-001	1	SMP	20:56	48	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
RINSE	1	NA	21:00	49		SOIL	SOIL	SW846	96660		0
CCV V-363142	1	CCV	21:04	50							V-363142(CCV WARNING)
CCB V-363139	1	CCB	21:09	51							V-363139(ICB/CCB WARNING)
AD27747-003	1	SMP	21:13	52	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
AD27759-001	1	SMP	21:18	53	MET-TAL6020S	SOIL	SOIL	SW846	96660		0
RINSE	1	NA	21:22	54		SOIL	SOIL	SW846	96660		0
CCV V-363142	1	CCV	21:26	55							V-363142(CCV WARNING)
CCB V-363139	1	CCB	21:31	56							V-363139(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 12/9/2021 8:56:44 AM

Run ok. Report Ag, As, Be, Cd, K, Na, Sb, Se, Tl, V. LRS fail for Ag. Ag Lr = 100ppb. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 20 12/9/21

Standard/Batch/SnCl2 Lot #:

12/9/21

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S120821CN Sample ID: CalBlk V-363132 Sample Date 12/08/21 Sample Time: 17:37

IS ID:	Area	Area Limit		
Ho-1	3443649.29	2410554.503	-	4476744.077
In-1	3177878.53	2224514.971	-	4131242.089
Sc-1	2090307.84	1463215.488	-	2717400.192
Tb-1	3643391.51	2550374.057	-	4736408.963

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363132	3	3443649.	3177878.	2090307.	3643391.				
SMP	RINSE	1	3541113.	3271771.	2169771.	3738743.				
SMP	RINSE	2	3433775.	3205566.	2101581.	3679917.				
CAL	CalStd1 V-36313	4	3461164.	3165512.	2070226.	3675102.				
CAL	CalStd2 V-36313	5	3498928.	3160018.	2110046.	3693265.				
CAL	CalStd3 V-36313	6	3449062.	3169885.	2084294.	3673851.				
CAL	CalStd4 V-36313	7	3510846.	3172150.	2107935.	3711259.				
CAL	CalStd5 V-36313	8	3519000.	3125600.	2084695.	3714929.				
ICV	ICV V-363138	9	3505593.	3185081.	2112268.	3715365.				
LLICV	LLICV V-363143	10	3475749.	3186730.	2124155.	3702394.				
ICB	ICB V-363139	11	3509901.	3204424.	2102514.	3714005.				
ICSA	ICSA V-363140	12	3405494.	2908496.	2025394.	3619578.				
SMP	RINSE	13	3471341.	3210006.	2090068.	3711830.				
LRS	LRS V-363141	14	3391303.	3032418.	2076261.	3652322.				
SMP	RINSE	15	3450699.	3179502.	2091942.	3690858.				
SMP	RINSE	16	3419543.	3132269.	2067040.	3627637.				
SMP	RINSE	17	3412970.	3150606.	2062909.	3601035.				
CCV	CCV V-363142	18	3437012.	3070852.	2039209.	3661783.				
CCB	CCB V-363139	19	3493270.	3134797.	2057567.	3714145.				
MB	MB 96660	20	3517976.	3121678.	2079010.	3704539.				
LCS	LCS 96660	21	3577163.	3225659.	2209013.	3833844.				
MR	LCS MR 96660	22	3562507.	3164738.	2197594.	3785115.				
SMP	AD27714-001	23	3609028.	3017940.	2640259.	3828651.				
SMP	AD27714-002	24	3590921.	3027071.	2476019.	3801601.				
SMP	AD27726-001	25	3540910.	2998692.	2149238.	3741489.				
CCV	CCV V-363142	26	3475602.	3100296.	2083669.	3672289.				
CCB	CCB V-363139	27	3460269.	3141409.	2083231.	3648760.				
SMP	AD27733-021	28	3610678.	3098058.	2804173. *	3823693.				
MR	AD27733-021	29	3708000.	3093949.	2770796. *	3889327.				
SD	AD27733-021	30	3488828.	3136484.	2188541.	3737372.				
MS	AD27733-021	31	3594563.	3091725.	2890797. *	3826769.				
MSD	AD27733-021	32	3672123.	3115960.	2819355. *	3843877.				
PS	AD27733-021	33	3627644.	3064270.	2768905. *	3836831.				
SMP	AD27733-022	34	3634778.	3068162.	2735190. *	3847329.				
SMP	AD27736-002	35	3496291.	3111911.	2747857. *	3717902.				
SMP	AD27728-004	36	3576803.	3028845.	2290305.	3754678.				
SMP	RINSE	37	3473785.	3184370.	2073752.	3708293.				
CCV	CCV V-363142	38	3506058.	3145476.	2066713.	3729251.				
CCB	CCB V-363139	39	3561097.	3162114.	2063818.	3728598.				
SMP	AD27728-008	40	3605656.	3132093.	2242521.	3805672.				
SMP	AD27728-012	41	3632770.	3099626.	2434431.	3830147.				
SMP	AD27728-016	42	3597493.	3092563.	2303986.	3770690.				
SMP	AD27750-001	43	3630727.	3117263.	2599410.	3886668.				
SMP	AD27750-002	44	3570985.	3054987.	2497784.	3798808.				
SMP	AD27750-003	45	3511756.	3040673.	2732558. *	3709442.				
SMP	AD27750-004	46	3596835.	2993762.	2362277.	3818891.				
SMP	AD27738-001	47	3620927.	3025183.	2230733.	3804025.				
SMP	AD27747-001	48	3526281.	2957300.	2929985. *	3751593.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	RINSE	49	3352384.	3057166.	1973116.	3572091.
CCV	CCV V-363142	50	3369103.	3008549.	1996849.	3529498.
CCB	CCB V-363139	51	3432598.	3070402.	1995619.	3584354.
SMP	AD27747-003	52	3638218.	2990386.	3171684. *	3832601.
SMP	AD27759-001	53	3524759.	3011866.	2591564.	3728888.
SMP	RINSE	54	3337456.	3054251.	1992093.	3546576.
CCV	CCV V-363142	55	3353647.	3027726.	2006559.	3549256.
CCB	CCB V-363139	56	3385722.	3085494.	2029567.	3596758.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S120821CN Sample ID: CalBlk V-363132 Sample Date 12/08/21 Sample Time: 17:37

IS ID:	Area	Area Limit		
Ho-2	2234669.29	1564268.503	-	2905070.077
In-2	831143.06	581800.142	-	1080485.978
Sc-2	98492.05	68944.435	-	128039.665
Tb-2	2294136.06	1605895.242	-	2982376.878

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363132	3	2234669.	831143.0	98492.05	2294136.				
SMP	RINSE	1	2282130.	845707.0	100565.9	2325846.				
SMP	RINSE	2	2282775.	854185.8	100953.0	2320823.				
CAL	CalStd1 V-36313	4	2222251.	820840.8	96854.58	2258849.				
CAL	CalStd2 V-36313	5	2236476.	826140.7	96799.55	2281721.				
CAL	CalStd3 V-36313	6	2231529.	820482.2	98223.93	2287143.				
CAL	CalStd4 V-36313	7	2269165.	825224.5	98969.00	2302512.				
CAL	CalStd5 V-36313	8	2245431.	820167.2	97426.08	2286497.				
ICV	ICV V-363138	9	2255615.	823776.6	98332.08	2289610.				
LLICV	LLICV V-363143	10	2238778.	828983.4	98956.63	2279300.				
ICB	ICB V-363139	11	2232673.	821104.7	98705.56	2279149.				
ICSA	ICSA V-363140	12	2179916.	751668.0	94277.47	2222078.				
SMP	RINSE	13	2276380.	847080.4	99785.36	2316379.				
LRS	LRS V-363141	14	2216380.	792811.3	98720.03	2252358.				
SMP	RINSE	15	2255125.	847743.4	99445.03	2318483.				
SMP	RINSE	16	2266779.	840799.3	98870.62	2302502.				
SMP	RINSE	17	2239652.	836308.6	97941.39	2287358.				
CCV	CCV V-363142	18	2239629.	814549.6	96399.01	2285484.				
CCB	CCB V-363139	19	2216556.	802132.2	95066.27	2267466.				
MB	MB 96660	20	2222857.	797975.5	94698.43	2262337.				
LCS	LCS 96660	21	2279786.	814532.8	102776.8	2289235.				
MR	LCS MR 96660	22	2277483.	822089.3	104131.0	2325617.				
SMP	AD27714-001	23	2301044.	776275.6	127642.9	2318477.				
SMP	AD27714-002	24	2320800.	787965.7	117935.0	2356193.				
SMP	AD27726-001	25	2292869.	791346.3	105022.4	2343525.				
CCV	CCV V-363142	26	2275034.	838814.0	100477.8	2314255.				
CCB	CCB V-363139	27	2246193.	834981.8	100103.8	2303613.				
SMP	AD27733-021	28	2383230.	818380.8	140038.2 *	2405039.				
MR	AD27733-021	29	2404070.	816730.7	136063.4 *	2419194.				
SD	AD27733-021	30	2278999.	830220.7	106240.3	2316525.				
MS	AD27733-021	31	2368847.	817536.1	144013.4 *	2372617.				
MSD	AD27733-021	32	2330526.	809992.3	137894.1 *	2373705.				
PS	AD27733-021	33	2345713.	800360.5	136901.7 *	2375700.				
SMP	AD27733-022	34	2354963.	807871.5	134682.3 *	2390623.				
SMP	AD27736-002	35	2277201.	815652.0	135829.0 *	2337386.				
SMP	AD27728-004	36	2275706.	780291.6	109127.1	2317373.				
SMP	RINSE	37	2274201.	850848.0	99298.73	2320655.				
CCV	CCV V-363142	38	2264768.	816965.3	97131.74	2301921.				
CCB	CCB V-363139	39	2244752.	813043.3	96706.49	2292993.				
SMP	AD27728-008	40	2288202.	794955.0	104732.9	2334973.				
SMP	AD27728-012	41	2286592.	781073.1	115542.8	2318721.				
SMP	AD27728-016	42	2250880.	791788.7	106554.1	2297990.				
SMP	AD27750-001	43	2334528.	808070.6	123184.0	2391920.				
SMP	AD27750-002	44	2313268.	792137.2	119786.3	2364212.				
SMP	AD27750-003	45	2279898.	784793.7	133864.0 *	2319258.				
SMP	AD27750-004	46	2313914.	787591.6	113262.8	2375068.				
SMP	AD27738-001	47	2373998.	797605.0	105325.7	2391226.				
SMP	AD27747-001	48	2308692.	769317.7	145611.0 *	2340258.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	RINSE	49	2186227.	808088.2	92905.36		2228033.
CCV	CCV V-363142	50	2187697.	787813.0	93331.76		2195797.
CCB	CCB V-363139	51	2180958.	798524.7	93583.07		2224175.
SMP	AD27747-003	52	2342298.	763233.0	159119.3	*	2349378.
SMP	AD27759-001	53	2296977.	779176.2	125880.6		2328317.
SMP	RINSE	54	2200034.	806945.6	94255.68		2233740.
CCV	CCV V-363142	55	2182914.	793294.4	93881.87		2233069.
CCB	CCB V-363139	56	2175406.	788701.1	93504.59		2221711.

* Indicates Internal Standard Area outside of limits

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1120701**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD27738-001	SB-008 SS	Soil/Terracore	1	87	Percent			12/08/21	12/07/21	12/06/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12616

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD27762-007	81	81.40590	Percent	1.27	10.09	8.45	12/08/21	BEENA	0.61	5
Sample	AD27738-001	87	86.78304	Percent	1.30	9.32	8.26	12/08/21	BEENA		
Sample	AD27747-001	87	87.11217	Percent	1.30	9.68	8.60	12/08/21	BEENA		
Sample	AD27747-002	86	86.03448	Percent	1.28	12.88	11.26	12/08/21	BEENA		
Sample	AD27747-003	85	84.83755	Percent	1.29	12.37	10.69	12/08/21	BEENA		
Sample	AD27747-004	81	80.82027	Percent	1.28	9.57	7.98	12/08/21	BEENA		
Sample	AD27749-001	78	77.64706	Percent	1.28	8.93	7.22	12/08/21	BEENA		
Sample	AD27749-002	79	78.73511	Percent	1.28	12.19	9.87	12/08/21	BEENA		
Sample	AD27749-003	80	80.30303	Percent	1.28	7.22	6.05	12/08/21	BEENA		
Sample	AD27749-004	82	81.59449	Percent	1.28	11.44	9.57	12/08/21	BEENA		
Sample	AD27749-005	77	76.64474	Percent	1.27	13.43	10.59	12/08/21	BEENA		
Sample	AD27751-001	76	76.28866	Percent	1.28	8.07	6.46	12/08/21	BEENA		
Sample	AD27751-002	77	76.96391	Percent	1.26	10.68	8.51	12/08/21	BEENA		
Sample	AD27751-003	77	77.41573	Percent	1.27	10.17	8.16	12/08/21	BEENA		
Sample	AD27751-004	77	77.05411	Percent	1.28	11.26	8.97	12/08/21	BEENA		
Sample	AD27751-005	76	75.63989	Percent	1.30	12.63	9.87	12/08/21	BEENA		
Sample	AD27751-006	76	75.76076	Percent	1.29	10.82	8.51	12/08/21	BEENA		
Sample	AD27751-007	72	72.06704	Percent	1.28	8.44	6.44	12/08/21	BEENA		
Sample	AD27762-006	81	81.28141	Percent	1.30	9.26	7.76	12/08/21	BEENA		
Sample	AD27762-007	82	81.90045	Percent	1.29	10.13	8.53	12/08/21	BEENA		
Sample	AD27762-008	82	82.06600	Percent	1.29	8.26	7.01	12/08/21	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
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Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 12/8/2021

Report Date: 1/25/2022

Deliverables: MDE-R

Lab ID: AD27774

Lab Project No: 1120805

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1120805

Sample Summary

Client: Intertek-PSI

Project: CSA WMATA 0444100

HC Project #: 1120805

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD27774-001	SB-009SS	Soil/Terracore	12/7/2021	12/8/2021
AD27774-002	SB-010SS	Soil/Terracore	12/7/2021	12/8/2021
AD27774-003	SB-011SS	Soil/Terracore	12/7/2021	12/8/2021

HC Case Narrative

Client: Intertek-PSI **HC Project:** 1120805
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches 98158, 98174, 98178 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 98174, 98178 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD27774-001, -002 had one or more internal standard areas outside +100% / -50% window from most recent calibration verification standard. Please refer to the applicable Form 8 for the areas.

Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 95930 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

1/26/2022
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1120805

Project: CSA WMATA 0444100

Lab#: AD27774-001 **Sample ID: SB-009SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.7	14	EPA 6010D
Lead	mg/kg	5.7	6.1	EPA 6010D
Arsenic	mg/kg	0.23	3.3	EPA 6020B
Benzo[a]anthracene	mg/kg	0.038	0.087	EPA 8270E
Benzo[a]pyrene	mg/kg	0.038	0.092	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.038	0.11	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.038	0.066	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.038	0.042	EPA 8270E
Chrysene	mg/kg	0.038	0.080	EPA 8270E
Fluoranthene	mg/kg	0.038	0.14	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.038	0.057	EPA 8270E
Phenanthrene	mg/kg	0.038	0.069	EPA 8270E
Pyrene	mg/kg	0.038	0.15	EPA 8270E

Lab#: AD27774-002 **Sample ID: SB-010SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.8	22	EPA 6010D
Lead	mg/kg	5.8	7.4	EPA 6010D
Arsenic	mg/kg	0.23	3.3	EPA 6020B

Lab#: AD27774-003 **Sample ID: SB-011SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	6.0	16	EPA 6010D
Lead	mg/kg	6.0	7.1	EPA 6010D
Arsenic	mg/kg	0.24	5.9	EPA 6020B
Diesel Range Organics	mg/kg	71	330	EPA 8015D
Gasoline Range Organics	mg/kg	380	5400	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	71	470	EPA 8015D
Cyclohexane	mg/kg	0.76	4.1	EPA 8260D
Isopropylbenzene	mg/kg	0.76	11	EPA 8260D
Methylcyclohexane	mg/kg	0.76	17	EPA 8260D
2-Methylnaphthalene	mg/kg	0.040	0.092	EPA 8270E
bis(2-Ethylhexyl)phthalate	mg/kg	0.040	0.23	EPA 8270E
Naphthalene	mg/kg	0.011	0.025	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project #: 1120805

Sample ID: SB-009SS
Lab#: AD27774-001
Matrix: Soil/Terracore

Collection Date: 12/7/2021
Receipt Date: 12/8/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	68	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	83.8	mg/kg	24	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.7	14
Lead	1	mg/kg	5.7	6.1

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.23	3.3
Cadmium	1	mg/kg	0.45	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.038	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.038	ND
1,2-Diphenylhydrazine	1	mg/kg	0.038	ND
1,4-Dioxane	1	mg/kg	0.019	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.038	ND
2,4,5-Trichlorophenol	1	mg/kg	0.038	ND
2,4,6-Trichlorophenol	1	mg/kg	0.038	ND
2,4-Dichlorophenol	1	mg/kg	0.014	ND
2,4-Dimethylphenol	1	mg/kg	0.018	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.038	ND
2,6-Dinitrotoluene	1	mg/kg	0.038	ND
2-Chloronaphthalene	1	mg/kg	0.038	ND
2-Chlorophenol	1	mg/kg	0.038	ND
2-Methylnaphthalene	1	mg/kg	0.038	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.038	ND
2-Nitrophenol	1	mg/kg	0.038	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.038	ND
3-Nitroaniline	1	mg/kg	0.038	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.038	ND
4-Chloro-3-methylphenol	1	mg/kg	0.038	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.038	ND

Sample ID:	**SB-009SS**	**Collection Date:**	**12/7/2021**
Lab#:	**AD27774-001**	**Receipt Date:**	**12/8/2021**
Matrix:	**Soil/Terracore**		

4-Nitroaniline	1	mg/kg	0.038	ND
4-Nitrophenol	1	mg/kg	0.038	ND
Acenaphthene	1	mg/kg	0.038	ND
Acenaphthylene	1	mg/kg	0.038	ND
Acetophenone	1	mg/kg	0.038	ND
Anthracene	1	mg/kg	0.038	ND
Atrazine	1	mg/kg	0.038	ND
Benzaldehyde	1	mg/kg	0.41	ND
Benzidine	1	mg/kg	0.067	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.038**	**0.087**
Benzo[a]pyrene	**1**	**mg/kg**	**0.038**	**0.092**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.038**	**0.11**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.038**	**0.066**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.038**	**0.042**
Benzyl alcohol	1	mg/kg	0.038	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.038	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0095	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.038	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.038	ND
Butylbenzylphthalate	1	mg/kg	0.038	ND
Caprolactam	1	mg/kg	0.038	ND
Carbazole	1	mg/kg	0.038	ND
Chrysene	**1**	**mg/kg**	**0.038**	**0.080**
Dibenzo[a,h]anthracene	1	mg/kg	0.038	ND
Dibenzofuran	1	mg/kg	0.0096	ND
Diethylphthalate	1	mg/kg	0.038	ND
Dimethylphthalate	1	mg/kg	0.038	ND
Di-n-butylphthalate	1	mg/kg	0.043	ND
Di-n-octylphthalate	1	mg/kg	0.038	ND
Fluoranthene	**1**	**mg/kg**	**0.038**	**0.14**
Fluorene	1	mg/kg	0.038	ND
Hexachlorobenzene	1	mg/kg	0.038	ND
Hexachlorobutadiene	1	mg/kg	0.038	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.038	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.038**	**0.057**
Isophorone	1	mg/kg	0.038	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.038	ND
N-Nitrosodimethylamine	1	mg/kg	0.047	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.014	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.038**	**0.069**
Phenol	1	mg/kg	0.038	ND
Pyrene	**1**	**mg/kg**	**0.038**	**0.15**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	68	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.796	mg/kg	0.0018	ND
1,1,2,2-Tetrachloroethane	0.796	mg/kg	0.0018	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.796	mg/kg	0.0018	ND
1,1,2-Trichloroethane	0.796	mg/kg	0.0018	ND

Sample ID: SB-009SS				Collection Date: 12/7/2021	
Lab#: AD27774-001				Receipt Date: 12/8/2021	
Matrix: Soil/Terracore					
1,1-Dichloroethane	0.796	mg/kg	0.0018	ND	
1,1-Dichloroethene	0.796	mg/kg	0.0018	ND	
1,2,3-Trichlorobenzene	0.796	mg/kg	0.0018	ND	
1,2,4-Trichlorobenzene	0.796	mg/kg	0.0018	ND	
1,2-Dibromo-3-chloropropane	0.796	mg/kg	0.0018	ND	
1,2-Dibromoethane	0.796	mg/kg	0.00045	ND	
1,2-Dichlorobenzene	0.796	mg/kg	0.0018	ND	
1,2-Dichloroethane	0.796	mg/kg	0.0018	ND	
1,2-Dichloropropane	0.796	mg/kg	0.0018	ND	
1,3-Dichlorobenzene	0.796	mg/kg	0.0018	ND	
1,4-Dichlorobenzene	0.796	mg/kg	0.0018	ND	
1,4-Dioxane	0.796	mg/kg	0.090	ND	
2-Butanone	0.796	mg/kg	0.0018	ND	
2-Hexanone	0.796	mg/kg	0.0018	ND	
4-Methyl-2-pentanone	0.796	mg/kg	0.0018	ND	
Acetone	0.796	mg/kg	0.0090	ND	
Acrolein	0.796	mg/kg	0.0090	ND	
Acrylonitrile	0.796	mg/kg	0.0018	ND	
Benzene	0.796	mg/kg	0.00090	ND	
Bromochloromethane	0.796	mg/kg	0.0018	ND	
Bromodichloromethane	0.796	mg/kg	0.0018	ND	
Bromoform	0.796	mg/kg	0.0018	ND	
Bromomethane	0.796	mg/kg	0.0018	ND	
Carbon disulfide	0.796	mg/kg	0.0031	ND	
Carbon tetrachloride	0.796	mg/kg	0.0018	ND	
Chlorobenzene	0.796	mg/kg	0.0018	ND	
Chloroethane	0.796	mg/kg	0.0018	ND	
Chloroform	0.796	mg/kg	0.0018	ND	
Chloromethane	0.796	mg/kg	0.0018	ND	
cis-1,2-Dichloroethene	0.796	mg/kg	0.0018	ND	
cis-1,3-Dichloropropene	0.796	mg/kg	0.0018	ND	
Cyclohexane	0.796	mg/kg	0.0018	ND	
Dibromochloromethane	0.796	mg/kg	0.0018	ND	
Dichlorodifluoromethane	0.796	mg/kg	0.0018	ND	
Ethylbenzene	0.796	mg/kg	0.00090	ND	
Isopropylbenzene	0.796	mg/kg	0.00090	ND	
m&p-Xylenes	0.796	mg/kg	0.0011	ND	
Methyl Acetate	0.796	mg/kg	0.0018	ND	
Methylcyclohexane	0.796	mg/kg	0.0018	ND	
Methylene chloride	0.796	mg/kg	0.0018	ND	
Methyl-t-butyl ether	0.796	mg/kg	0.00090	ND	
o-Xylene	0.796	mg/kg	0.00090	ND	
Styrene	0.796	mg/kg	0.0018	ND	
t-Butyl Alcohol	0.796	mg/kg	0.0090	ND	
Tetrachloroethene	0.796	mg/kg	0.0018	ND	
Toluene	0.796	mg/kg	0.00090	ND	
trans-1,2-Dichloroethene	0.796	mg/kg	0.0018	ND	
trans-1,3-Dichloropropene	0.796	mg/kg	0.0018	ND	
Trichloroethene	0.796	mg/kg	0.0018	ND	
Trichlorofluoromethane	0.796	mg/kg	0.0018	ND	
Vinyl chloride	0.796	mg/kg	0.0018	ND	
Xylenes (Total)	0.796	mg/kg	0.00090	ND	

Sample ID: SB-010SS
Lab#: AD27774-002
Matrix: Soil/Terracore

Collection Date: 12/7/2021
Receipt Date: 12/8/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	70	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	83.6	mg/kg	24	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.8	22
Lead	1	mg/kg	5.8	7.4

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.23	3.3
Cadmium	1	mg/kg	0.47	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.039	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.039	ND
1,2-Diphenylhydrazine	1	mg/kg	0.039	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.039	ND
2,4,5-Trichlorophenol	1	mg/kg	0.039	ND
2,4,6-Trichlorophenol	1	mg/kg	0.039	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.039	ND
2,6-Dinitrotoluene	1	mg/kg	0.039	ND
2-Chloronaphthalene	1	mg/kg	0.039	ND
2-Chlorophenol	1	mg/kg	0.039	ND
2-Methylnaphthalene	1	mg/kg	0.039	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.039	ND
2-Nitrophenol	1	mg/kg	0.039	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.039	ND
3-Nitroaniline	1	mg/kg	0.039	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.039	ND
4-Chloro-3-methylphenol	1	mg/kg	0.039	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.039	ND
4-Nitroaniline	1	mg/kg	0.039	ND
4-Nitrophenol	1	mg/kg	0.039	ND
Acenaphthene	1	mg/kg	0.039	ND
Acenaphthylene	1	mg/kg	0.039	ND
Acetophenone	1	mg/kg	0.039	ND
Anthracene	1	mg/kg	0.039	ND
Atrazine	1	mg/kg	0.039	ND

Sample ID:	**SB-010SS**	**Collection Date:**	**12/7/2021**
Lab#:	**AD27774-002**	**Receipt Date:**	**12/8/2021**
Matrix:	**Soil/Terracore**		

Benzaldehyde	1	mg/kg	0.42	ND
Benzidine	1	mg/kg	0.068	ND
Benzo[a]anthracene	1	mg/kg	0.039	ND
Benzo[a]pyrene	1	mg/kg	0.039	ND
Benzo[b]fluoranthene	1	mg/kg	0.039	ND
Benzo[g,h,i]perylene	1	mg/kg	0.039	ND
Benzo[k]fluoranthene	1	mg/kg	0.039	ND
Benzyl alcohol	1	mg/kg	0.039	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.039	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0097	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.039	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.039	ND
Butylbenzylphthalate	1	mg/kg	0.039	ND
Caprolactam	1	mg/kg	0.039	ND
Carbazole	1	mg/kg	0.039	ND
Chrysene	1	mg/kg	0.039	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.039	ND
Dibenzofuran	1	mg/kg	0.0098	ND
Diethylphthalate	1	mg/kg	0.039	ND
Dimethylphthalate	1	mg/kg	0.039	ND
Di-n-butylphthalate	1	mg/kg	0.044	ND
Di-n-octylphthalate	1	mg/kg	0.039	ND
Fluoranthene	1	mg/kg	0.039	ND
Fluorene	1	mg/kg	0.039	ND
Hexachlorobenzene	1	mg/kg	0.039	ND
Hexachlorobutadiene	1	mg/kg	0.039	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.039	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.039	ND
Isophorone	1	mg/kg	0.039	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.039	ND
N-Nitrosodimethylamine	1	mg/kg	0.048	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	1	mg/kg	0.039	ND
Phenol	1	mg/kg	0.039	ND
Pyrene	1	mg/kg	0.039	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	70	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.842	mg/kg	0.0020	ND
1,1,2,2-Tetrachloroethane	0.842	mg/kg	0.0020	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.842	mg/kg	0.0020	ND
1,1,2-Trichloroethane	0.842	mg/kg	0.0020	ND
1,1-Dichloroethane	0.842	mg/kg	0.0020	ND
1,1-Dichloroethene	0.842	mg/kg	0.0020	ND
1,2,3-Trichlorobenzene	0.842	mg/kg	0.0020	ND
1,2,4-Trichlorobenzene	0.842	mg/kg	0.0020	ND
1,2-Dibromo-3-chloropropane	0.842	mg/kg	0.0020	ND
1,2-Dibromoethane	0.842	mg/kg	0.00049	ND
1,2-Dichlorobenzene	0.842	mg/kg	0.0020	ND

Sample ID: SB-010SS				Collection Date: 12/7/2021	
Lab#: AD27774-002				Receipt Date: 12/8/2021	
Matrix: Soil/Terracore					
1,2-Dichloroethane	0.842	mg/kg	0.0020	ND	
1,2-Dichloropropane	0.842	mg/kg	0.0020	ND	
1,3-Dichlorobenzene	0.842	mg/kg	0.0020	ND	
1,4-Dichlorobenzene	0.842	mg/kg	0.0020	ND	
1,4-Dioxane	0.842	mg/kg	0.098	ND	
2-Butanone	0.842	mg/kg	0.0020	ND	
2-Hexanone	0.842	mg/kg	0.0020	ND	
4-Methyl-2-pentanone	0.842	mg/kg	0.0020	ND	
Acetone	0.842	mg/kg	0.0098	ND	
Acrolein	0.842	mg/kg	0.0098	ND	
Acrylonitrile	0.842	mg/kg	0.0020	ND	
Benzene	0.842	mg/kg	0.00098	ND	
Bromochloromethane	0.842	mg/kg	0.0020	ND	
Bromodichloromethane	0.842	mg/kg	0.0020	ND	
Bromoform	0.842	mg/kg	0.0020	ND	
Bromomethane	0.842	mg/kg	0.0020	ND	
Carbon disulfide	0.842	mg/kg	0.0033	ND	
Carbon tetrachloride	0.842	mg/kg	0.0020	ND	
Chlorobenzene	0.842	mg/kg	0.0020	ND	
Chloroethane	0.842	mg/kg	0.0020	ND	
Chloroform	0.842	mg/kg	0.0020	ND	
Chloromethane	0.842	mg/kg	0.0020	ND	
cis-1,2-Dichloroethene	0.842	mg/kg	0.0020	ND	
cis-1,3-Dichloropropene	0.842	mg/kg	0.0020	ND	
Cyclohexane	0.842	mg/kg	0.0020	ND	
Dibromochloromethane	0.842	mg/kg	0.0020	ND	
Dichlorodifluoromethane	0.842	mg/kg	0.0020	ND	
Ethylbenzene	0.842	mg/kg	0.00098	ND	
Isopropylbenzene	0.842	mg/kg	0.00098	ND	
m&p-Xylenes	0.842	mg/kg	0.0012	ND	
Methyl Acetate	0.842	mg/kg	0.0020	ND	
Methylcyclohexane	0.842	mg/kg	0.0020	ND	
Methylene chloride	0.842	mg/kg	0.0020	ND	
Methyl-t-butyl ether	0.842	mg/kg	0.00098	ND	
o-Xylene	0.842	mg/kg	0.00098	ND	
Styrene	0.842	mg/kg	0.0020	ND	
t-Butyl Alcohol	0.842	mg/kg	0.0098	ND	
Tetrachloroethene	0.842	mg/kg	0.0020	ND	
Toluene	0.842	mg/kg	0.00098	ND	
trans-1,2-Dichloroethene	0.842	mg/kg	0.0020	ND	
trans-1,3-Dichloropropene	0.842	mg/kg	0.0020	ND	
Trichloroethene	0.842	mg/kg	0.0020	ND	
Trichlorofluoromethane	0.842	mg/kg	0.0020	ND	
Vinyl chloride	0.842	mg/kg	0.0020	ND	
Xylenes (Total)	0.842	mg/kg	0.00098	ND	

Sample ID: SB-011SS
Lab#: AD27774-003
Matrix: Soil/Terracore

Collection Date: 12/7/2021
Receipt Date: 12/8/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		84

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	71	330

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1280	mg/kg	380	5400

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	6.0	16
Lead	1	mg/kg	6.0	7.1

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.24	5.9
Cadmium	1	mg/kg	0.48	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.040	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.040	ND
1,2-Diphenylhydrazine	1	mg/kg	0.040	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.040	ND
2,4,5-Trichlorophenol	1	mg/kg	0.040	ND
2,4,6-Trichlorophenol	1	mg/kg	0.040	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.040	ND
2,6-Dinitrotoluene	1	mg/kg	0.040	ND
2-Chloronaphthalene	1	mg/kg	0.040	ND
2-Chlorophenol	1	mg/kg	0.040	ND
2-Methylnaphthalene	1	mg/kg	0.040	0.092
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.040	ND
2-Nitrophenol	1	mg/kg	0.040	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.040	ND
3-Nitroaniline	1	mg/kg	0.040	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.040	ND
4-Chloro-3-methylphenol	1	mg/kg	0.040	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.040	ND
4-Nitroaniline	1	mg/kg	0.040	ND
4-Nitrophenol	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Acetophenone	1	mg/kg	0.040	ND
Anthracene	1	mg/kg	0.040	ND
Atrazine	1	mg/kg	0.040	ND

Sample ID:	**SB-011SS**	**Collection Date:**	**12/7/2021**
Lab#:	**AD27774-003**	**Receipt Date:**	**12/8/2021**
Matrix:	**Soil/Terracore**		

Benzaldehyde	1	mg/kg	0.43	ND
Benzidine	1	mg/kg	0.070	ND
Benzo[a]anthracene	1	mg/kg	0.040	ND
Benzo[a]pyrene	1	mg/kg	0.040	ND
Benzo[b]fluoranthene	1	mg/kg	0.040	ND
Benzo[g,h,i]perylene	1	mg/kg	0.040	ND
Benzo[k]fluoranthene	1	mg/kg	0.040	ND
Benzyl alcohol	1	mg/kg	0.040	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.040	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0099	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.040	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.040**	**0.23**
Butylbenzylphthalate	1	mg/kg	0.040	ND
Caprolactam	1	mg/kg	0.040	ND
Carbazole	1	mg/kg	0.040	ND
Chrysene	1	mg/kg	0.040	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Dibenzofuran	1	mg/kg	0.010	ND
Diethylphthalate	1	mg/kg	0.040	ND
Dimethylphthalate	1	mg/kg	0.040	ND
Di-n-butylphthalate	1	mg/kg	0.046	ND
Di-n-octylphthalate	1	mg/kg	0.040	ND
Fluoranthene	1	mg/kg	0.040	ND
Fluorene	1	mg/kg	0.040	ND
Hexachlorobenzene	1	mg/kg	0.040	ND
Hexachlorobutadiene	1	mg/kg	0.040	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.040	ND
Isophorone	1	mg/kg	0.040	ND
Naphthalene	**1**	**mg/kg**	**0.011**	**0.025**
Nitrobenzene	1	mg/kg	0.040	ND
N-Nitrosodimethylamine	1	mg/kg	0.049	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	1	mg/kg	0.040	ND
Phenol	1	mg/kg	0.040	ND
Pyrene	1	mg/kg	0.040	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**71**	**470**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	639	mg/kg	0.76	ND
1,1,2,2-Tetrachloroethane	639	mg/kg	0.76	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	639	mg/kg	0.76	ND
1,1,2-Trichloroethane	639	mg/kg	0.76	ND
1,1-Dichloroethane	639	mg/kg	0.76	ND
1,1-Dichloroethene	639	mg/kg	0.76	ND
1,2,3-Trichlorobenzene	639	mg/kg	0.76	ND
1,2,4-Trichlorobenzene	639	mg/kg	0.76	ND
1,2-Dibromo-3-chloropropane	639	mg/kg	0.76	ND
1,2-Dibromoethane	639	mg/kg	0.76	ND
1,2-Dichlorobenzene	639	mg/kg	0.76	ND

Sample ID:	**SB-011SS**			**Collection Date:**	**12/7/2021**
Lab#:	**AD27774-003**			**Receipt Date:**	**12/8/2021**
Matrix:	**Soil/Terracore**				

1,2-Dichloroethane	639	mg/kg	0.49	ND
1,2-Dichloropropane	639	mg/kg	0.76	ND
1,3-Dichlorobenzene	639	mg/kg	0.76	ND
1,4-Dichlorobenzene	639	mg/kg	0.76	ND
1,4-Dioxane	639	mg/kg	38	ND
2-Butanone	639	mg/kg	0.76	ND
2-Hexanone	639	mg/kg	0.76	ND
4-Methyl-2-pentanone	639	mg/kg	0.76	ND
Acetone	639	mg/kg	3.8	ND
Acrolein	639	mg/kg	3.8	ND
Acrylonitrile	639	mg/kg	0.76	ND
Benzene	639	mg/kg	0.38	ND
Bromochloromethane	639	mg/kg	0.76	ND
Bromodichloromethane	639	mg/kg	0.76	ND
Bromoform	639	mg/kg	0.76	ND
Bromomethane	639	mg/kg	0.76	ND
Carbon disulfide	639	mg/kg	0.76	ND
Carbon tetrachloride	639	mg/kg	0.76	ND
Chlorobenzene	639	mg/kg	0.76	ND
Chloroethane	639	mg/kg	0.76	ND
Chloroform	639	mg/kg	1.5	ND
Chloromethane	639	mg/kg	0.76	ND
cis-1,2-Dichloroethene	639	mg/kg	0.76	ND
cis-1,3-Dichloropropene	639	mg/kg	0.76	ND
Cyclohexane	**639**	**mg/kg**	**0.76**	**4.1**
Dibromochloromethane	639	mg/kg	0.76	ND
Dichlorodifluoromethane	639	mg/kg	0.76	ND
Ethylbenzene	639	mg/kg	0.76	ND
Isopropylbenzene	**639**	**mg/kg**	**0.76**	**11**
m&p-Xylenes	639	mg/kg	0.76	ND
Methyl Acetate	639	mg/kg	0.76	ND
Methylcyclohexane	**639**	**mg/kg**	**0.76**	**17**
Methylene chloride	639	mg/kg	0.76	ND
Methyl-t-butyl ether	639	mg/kg	0.38	ND
o-Xylene	639	mg/kg	0.76	ND
Styrene	639	mg/kg	0.76	ND
t-Butyl Alcohol	639	mg/kg	3.8	ND
Tetrachloroethene	639	mg/kg	0.76	ND
Toluene	639	mg/kg	0.76	ND
trans-1,2-Dichloroethene	639	mg/kg	0.76	ND
trans-1,3-Dichloropropene	639	mg/kg	0.76	ND
Trichloroethene	639	mg/kg	0.76	ND
Trichlorofluoromethane	639	mg/kg	0.76	ND
Vinyl chloride	639	mg/kg	0.76	ND
Xylenes (Total)	639	mg/kg	0.76	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 1120805

Project: CSA WMATA 0444100

Lab#: AD27774-001 **Sample ID: SB-009SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/9/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/09/21 17:17	CN	EPA 8015D	12/10/21 15:00	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/10/21 17:12	SG
RCRA Metals 6010D	3005&10/3050	12/09/21 12:30	ksaez	EPA 6010D	12/10/21 09:05	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/09/21 12:30	ksaez	EPA 6020B	12/9/21 21:47	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/19/21 05:15	lynda	EPA 8270E	12/19/21 17:08	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/09/21 17:17	CN	EPA 8015D	12/10/21 15:00	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/9/21 05:39	WP

Lab#: AD27774-002 **Sample ID: SB-010SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/9/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/09/21 17:17	CN	EPA 8015D	12/10/21 15:29	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/10/21 17:29	SG
RCRA Metals 6010D	3005&10/3050	12/09/21 12:30	ksaez	EPA 6010D	12/10/21 09:09	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/09/21 12:30	ksaez	EPA 6020B	12/9/21 21:52	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/19/21 05:15	lynda	EPA 8270E	12/19/21 18:51	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/09/21 17:17	CN	EPA 8015D	12/10/21 15:29	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/9/21 05:59	WP

Lab#: AD27774-003 **Sample ID: SB-011SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/9/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/09/21 17:17	CN	EPA 8015D	12/10/21 15:58	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/16/21 12:45	JM
RCRA Metals 6010D	3005&10/3050	12/09/21 12:30	ksaez	EPA 6010D	12/10/21 09:14	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/09/21 12:30	ksaez	EPA 6020B	12/9/21 21:56	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/19/21 05:15	lynda	EPA 8270E	12/19/21 19:15	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/09/21 17:17	CN	EPA 8015D	12/10/21 15:58	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/9/21 07:33	JM

Chain of Custody

1120805 0016

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1120805

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
6 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlab - PSI
Address: 2930 Eskridge Road, Fairfax, VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andres.acosta@interlab.com
1d) Send Report to: rinzo.renthlei@interlab.com

Project Information

2a) Project: WMATA CSA
2b) Project Mgr:
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # A027774

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	7) Analysis: 8260 VOC	8270 SVOC	TPH-GRO/DRO/ORO	4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	SB-009SS	S	12/7/21	10:30		X	X	X	X	X		X						2	
-002	SB-010SS	S		13:00		X	X	X	X	X		X						2	
-003	SB-011SS	S		13:30		X	X	X	X	X		X						2	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX	12/8/21	
FEDEX	[signature]	12/8/21	9:20

11) Sampler (print name): RINZO RENTHLEI Date: 12/7/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.1

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: INTERTEK-VA **HC Project #:** 1120805

Project: CSA WMATA 0444100

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csmith192.168.1.137
12/10/2021 12:34:37 PM

Per Andy Acosta, The 4 RCRA Metals required are As, Cd, Cr, Pb.

CONDITION UPON RECEIPT

Batch Number AD27774 Entered By: maxwell
Date Entered 12/8/2021 9:28:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.1
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD27774-001	12/08/21 09:20	MAXW	0	M	Received
AD27774-001	12/08/21 09:28	MAXW	0	M	Login
AD27774-001	12/08/21 09:32	R31	1	A	NONE
AD27774-001	12/08/21 09:33	F18	2	A	NONE
AD27774-001	12/08/21 23:43	WP	2	A	VOA
AD27774-001	12/08/21 09:33	F18	3	A	NONE
AD27774-001	12/08/21 22:25	R12	4	A	NONE
AD27774-001	12/08/21 22:25	PA	4	A	mx
AD27774-001	12/09/21 08:51	BCT	4	A	SOLIDS
AD27774-001	12/09/21 10:29	KEVS	4	A	TDSI
AD27774-001	12/09/21 16:13	R12	4	A	NONE
AD27774-001	12/09/21 17:15	CN	4	A	TPH-SOIL
AD27774-001	12/09/21 17:16	R12	4	A	NONE
AD27774-001	12/19/21 07:14	LV	4	A	bn/bna
AD27774-001	12/19/21 07:15	R12	4	A	NONE
AD27774-002	12/08/21 09:20	MAXW	0	M	Received
AD27774-002	12/08/21 09:28	MAXW	0	M	Login
AD27774-002	12/08/21 09:32	R31	1	A	NONE
AD27774-002	12/08/21 09:33	F18	2	A	NONE
AD27774-002	12/08/21 23:43	WP	2	A	VOA
AD27774-002	12/08/21 09:33	F18	3	A	NONE
AD27774-002	12/08/21 22:25	PA	4	A	mx
AD27774-002	12/08/21 22:25	R12	4	A	NONE
AD27774-002	12/09/21 08:51	BCT	4	A	SOLIDS
AD27774-002	12/09/21 10:29	KEVS	4	A	TDSI
AD27774-002	12/09/21 16:13	R12	4	A	NONE
AD27774-002	12/09/21 17:15	CN	4	A	TPH-SOIL
AD27774-002	12/09/21 17:16	R12	4	A	NONE
AD27774-002	12/19/21 07:14	LV	4	A	bn/bna
AD27774-002	12/19/21 07:15	R12	4	A	NONE
AD27774-003	12/08/21 09:20	MAXW	0	M	Received
AD27774-003	12/08/21 09:28	MAXW	0	M	Login
AD27774-003	12/08/21 09:32	R31	1	A	NONE
AD27774-003	12/15/21 15:58	R31	1	A	NONE
AD27774-003	12/15/21 15:58	JM	1	A	gro
AD27774-003	12/16/21 11:02	JM	1	A	GRO
AD27774-003	12/16/21 11:03	R31	1	A	NONE
AD27774-003	12/08/21 09:33	F18	2	A	NONE
AD27774-003	12/08/21 09:33	F18	3	A	NONE
AD27774-003	12/08/21 22:25	R12	4	A	NONE
AD27774-003	12/08/21 22:25	PA	4	A	mx
AD27774-003	12/09/21 06:51	BCT	4	A	SOLIDS
AD27774-003	12/09/21 10:29	KEVS	4	A	TDSI
AD27774-003	12/09/21 16:13	R12	4	A	NONE
AD27774-003	12/09/21 17:15	CN	4	A	TPH-SOIL
AD27774-003	12/09/21 17:16	R12	4	A	NONE
AD27774-003	12/19/21 07:14	LV	4	A	bn/bna
AD27774-003	12/19/21 07:15	R12	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27774-001
Client Id: SB-009SS
Data File: 1M156369.D
Analysis Date: 12/09/21 05:39
Date Rec/Extracted: 12/08/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.28g
Final Vol: NA
Dilution: 0.796
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00045	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00090	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00090	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.090	U	75-09-2	Methylene Chloride	0.0018	U
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00090	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00090	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0090	U	75-65-0	t-Butyl Alcohol	0.0090	U
107-02-8	Acrolein	0.0090	U	127-18-4	Tetrachloroethene	0.0018	U
107-13-1	Acrylonitrile	0.0018	U	108-88-3	Toluene	0.00090	U
71-43-2	Benzene	0.00090	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
74-97-5	Bromochloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	79-01-6	Trichloroethene	0.0018	U
75-25-2	Bromoform	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-01-4	Vinyl Chloride	0.0018	U
75-15-0	Carbon Disulfide	0.0031	U	1330-20-7	Xylenes (Total)	0.00090	U

Worksheet #: 622284

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

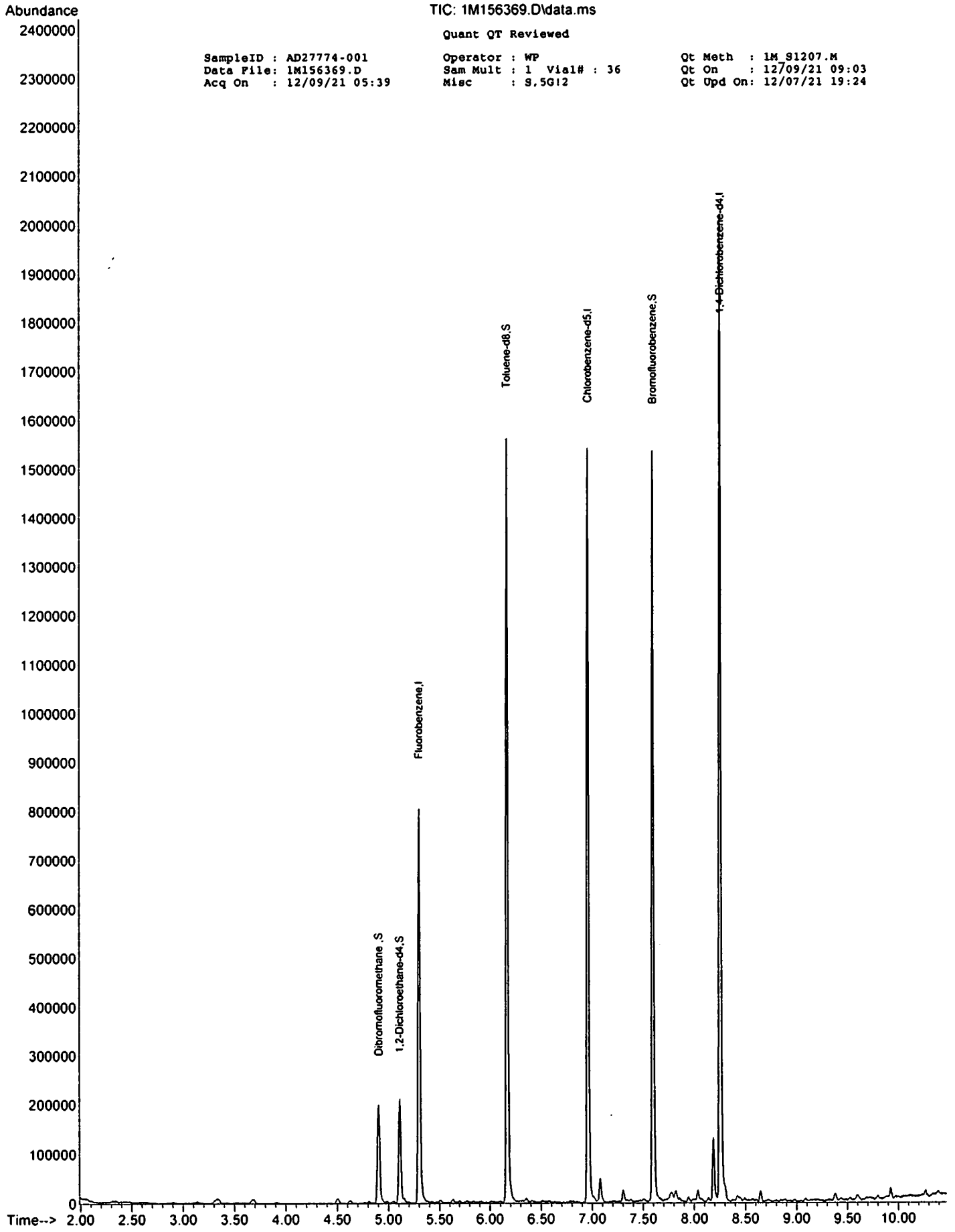
Quantitation Report (QT Reviewed)

SampleID : AD27774-001 Operator : WP Qt Meth : 1M_S1207.M
Data File: 1M156369.D Sam Mult : 1 Vial# : 36 Qt On : 12/09/21 09:03
Acq On : 12/09/21 05:39 Misc : S,5G!2 Qt Upd On: 12/07/21 19:24

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-08-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.302	96	545705	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.961	117	638889	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.257	152	423261	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.907	111	87630	19.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 65.77%			
39) 1,2-Dichloroethane-d4	5.109	67	64364	20.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 66.80%			
66) Toluene-d8	6.167	98	746346	30.79	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.63%			
76) Bromofluorobenzene	7.598	174	337653	30.63	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.10%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M156369.D\data.ms
Quant QT Reviewed
SampleID : AD27774-001
Data File: 1M156369.D
Acq On : 12/09/21 05:39
Operator : WP
Sam Mult : 1 Vial# : 36
Misc : S,5G12
Qt Meth : 1M_S1207.M
Qt On : 12/09/21 09:03
Qt Upd On: 12/07/21 19:24
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27774-002
Client Id: SB-010SS
Data File: 1M156370.D
Analysis Date: 12/09/21 05:59
Date Rec/Extracted: 12/08/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.94g
Final Vol: NA
Dilution: 0.842
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00049	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.00098	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.00098	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.098	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.00098	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.00098	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.0098	U	75-65-0	t-Butyl Alcohol	0.0098	U
107-02-8	Acrolein	0.0098	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.00098	U
71-43-2	Benzene	0.00098	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0033	U	1330-20-7	Xylenes (Total)	0.00098	U

Worksheet #: 622284

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

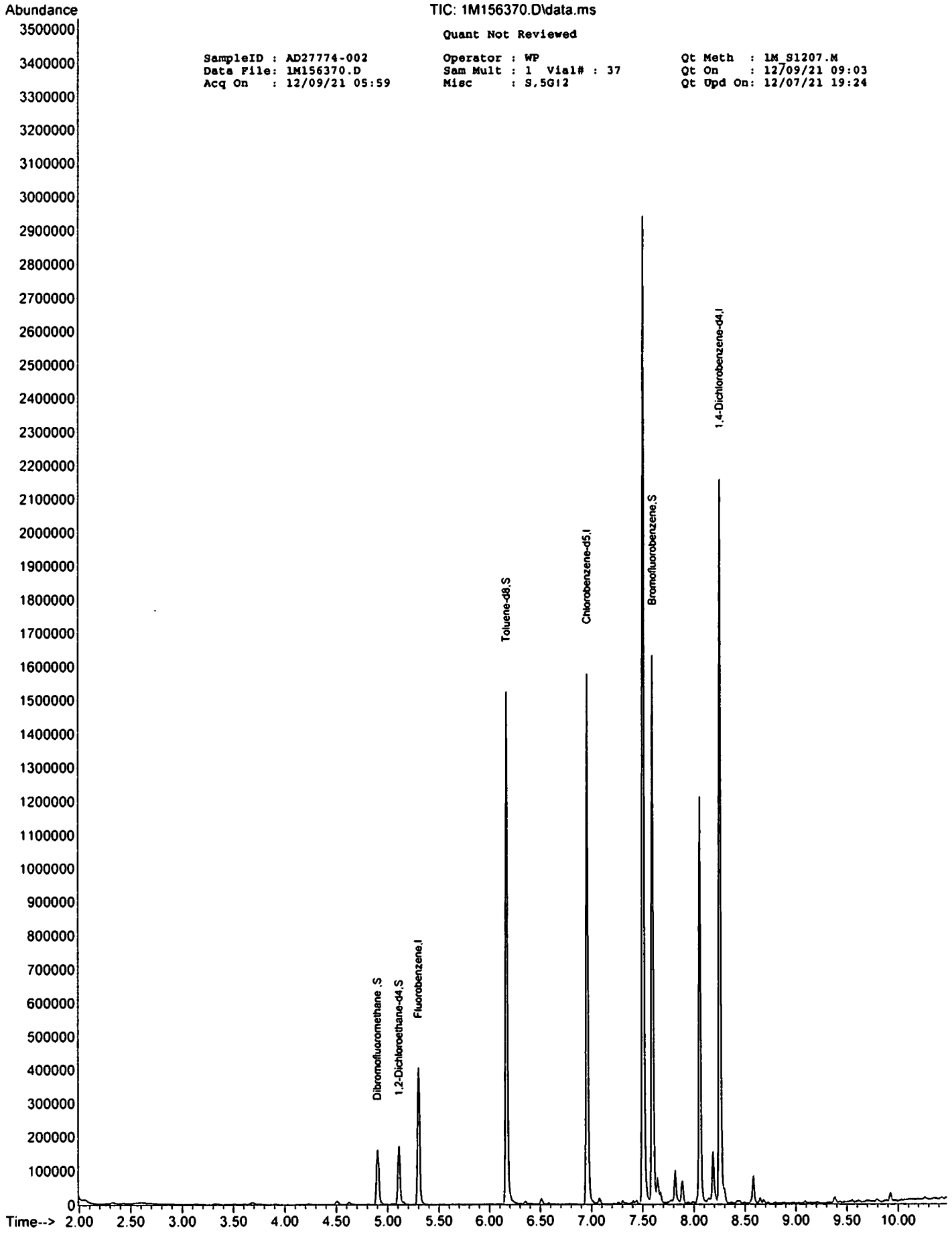
Quantitation Report (Not Reviewed)

SampleID : AD27774-002 Operator : WP Qt Meth : 1M_S1207.M
Data File: 1M156370.D Sam Mult : 1 Vial# : 37 Qt On : 12/09/21 09:03
Acq On : 12/09/21 05:59 Misc : S,5G!2 Qt Upd On: 12/07/21 19:24

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-08-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.299	96	283895	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.958	117	648569	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.254	152	439134	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.900	111	72040	31.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.90%			
39) 1,2-Dichloroethane-d4	5.109	67	52458	31.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.67%			
66) Toluene-d8	6.167	98	731774	29.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.13%			
76) Bromofluorobenzene	7.598	174	354355	30.98	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.27%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M156370.D\data.ms
Quant Not Reviewed
SampleID : AD27774-002
Data File: 1M156370.D
Acq On : 12/09/21 05:59
Operator : WP
Sam Mult : 1 Vial# : 37
Misc : S,5G12
Qt Meth : 1M_S1207.M
Qt On : 12/09/21 09:03
Qt Upd On: 12/07/21 19:24
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27774-003(80uL)
Client Id: SB-011SS
Data File: 2M160959.D
Analysis Date: 12/09/21 07:33
Date Rec/Extracted: 12/08/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Methanol
Extraction Ratio: 7.83g:10ml
Final Vol: NA
Dilution: 639
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.76	U	56-23-5	Carbon Tetrachloride	0.76	U
79-34-5	1,1,2,2-Tetrachloroethane	0.76	U	108-90-7	Chlorobenzene	0.76	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.76	U	75-00-3	Chloroethane	0.76	U
79-00-5	1,1,2-Trichloroethane	0.76	U	67-66-3	Chloroform	1.5	U
75-34-3	1,1-Dichloroethane	0.76	U	74-87-3	Chloromethane	0.76	U
75-35-4	1,1-Dichloroethene	0.76	U	156-59-2	cis-1,2-Dichloroethene	0.76	U
87-61-6	1,2,3-Trichlorobenzene	0.76	U	10061-01-5	cis-1,3-Dichloropropene	0.76	U
120-82-1	1,2,4-Trichlorobenzene	0.76	U	**110-82-7**	**Cyclohexane**	**0.76**	**4.1**
96-12-8	1,2-Dibromo-3-Chloropropa	0.76	U	124-48-1	Dibromochloromethane	0.76	U
106-93-4	1,2-Dibromoethane	0.76	U	75-71-8	Dichlorodifluoromethane	0.76	U
95-50-1	1,2-Dichlorobenzene	0.76	U	100-41-4	Ethylbenzene	0.76	U
107-06-2	1,2-Dichloroethane	0.49	U	**98-82-8**	**Isopropylbenzene**	**0.76**	**11**
78-87-5	1,2-Dichloropropane	0.76	U	79601-23-1	m&p-Xylenes	0.76	U
541-73-1	1,3-Dichlorobenzene	0.76	U	79-20-9	Methyl Acetate	0.76	U
106-46-7	1,4-Dichlorobenzene	0.76	U	**108-87-2**	**Methylcyclohexane**	**0.76**	**17**
123-91-1	1,4-Dioxane	38	U	75-09-2	Methylene Chloride	0.76	U
78-93-3	2-Butanone	0.76	U	1634-04-4	Methyl-t-butyl ether	0.38	U
591-78-6	2-Hexanone	0.76	U	95-47-6	o-Xylene	0.76	U
108-10-1	4-Methyl-2-Pentanone	0.76	U	100-42-5	Styrene	0.76	U
67-64-1	Acetone	3.8	U	75-65-0	t-Butyl Alcohol	3.8	U
107-02-8	Acrolein	3.8	U	127-18-4	Tetrachloroethene	0.76	U
107-13-1	Acrylonitrile	0.76	U	108-88-3	Toluene	0.76	U
71-43-2	Benzene	0.38	U	156-60-5	trans-1,2-Dichloroethene	0.76	U
74-97-5	Bromochloromethane	0.76	U	10061-02-6	trans-1,3-Dichloropropene	0.76	U
75-27-4	Bromodichloromethane	0.76	U	79-01-6	Trichloroethene	0.76	U
75-25-2	Bromoform	0.76	U	75-69-4	Trichlorofluoromethane	0.76	U
74-83-9	Bromomethane	0.76	U	75-01-4	Vinyl Chloride	0.76	U
75-15-0	Carbon Disulfide	0.76	U	1330-20-7	Xylenes (Total)	0.76	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD27774-003(80uL) Operator : JM Qt Meth : 2M_A1202.M
Data File: 2M160959.D Sam Mult : 1 Vial# : 28 Qt On : 12/09/21 07:57
Acq On : 12/09/21 07:33 Misc : M,MEXT!1 Qt Upd On: 12/02/21 21:44

Data Path : G:\GcMsData\2021\GCMS_2\Data\12-0821\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.093	96	493186	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	491928	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	302296	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	142774	29.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.47%			
39) 1,2-Dichloroethane-d4	4.910	67	70889	30.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.97%			
66) Toluene-d8	5.952	98	563229	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.23%			
76) Bromofluorobenzene	7.367	174	214904	25.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 85.10%			
Target Compounds						Qvalue
38) Cyclohexane	4.769	56	34672m	5.3850	ug/l	
46) Methylcyclohexane	5.416	83	127026	22.7184	ug/l	80
84) Isopropylbenzene	7.263	105	338460	14.3979	ug/l	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

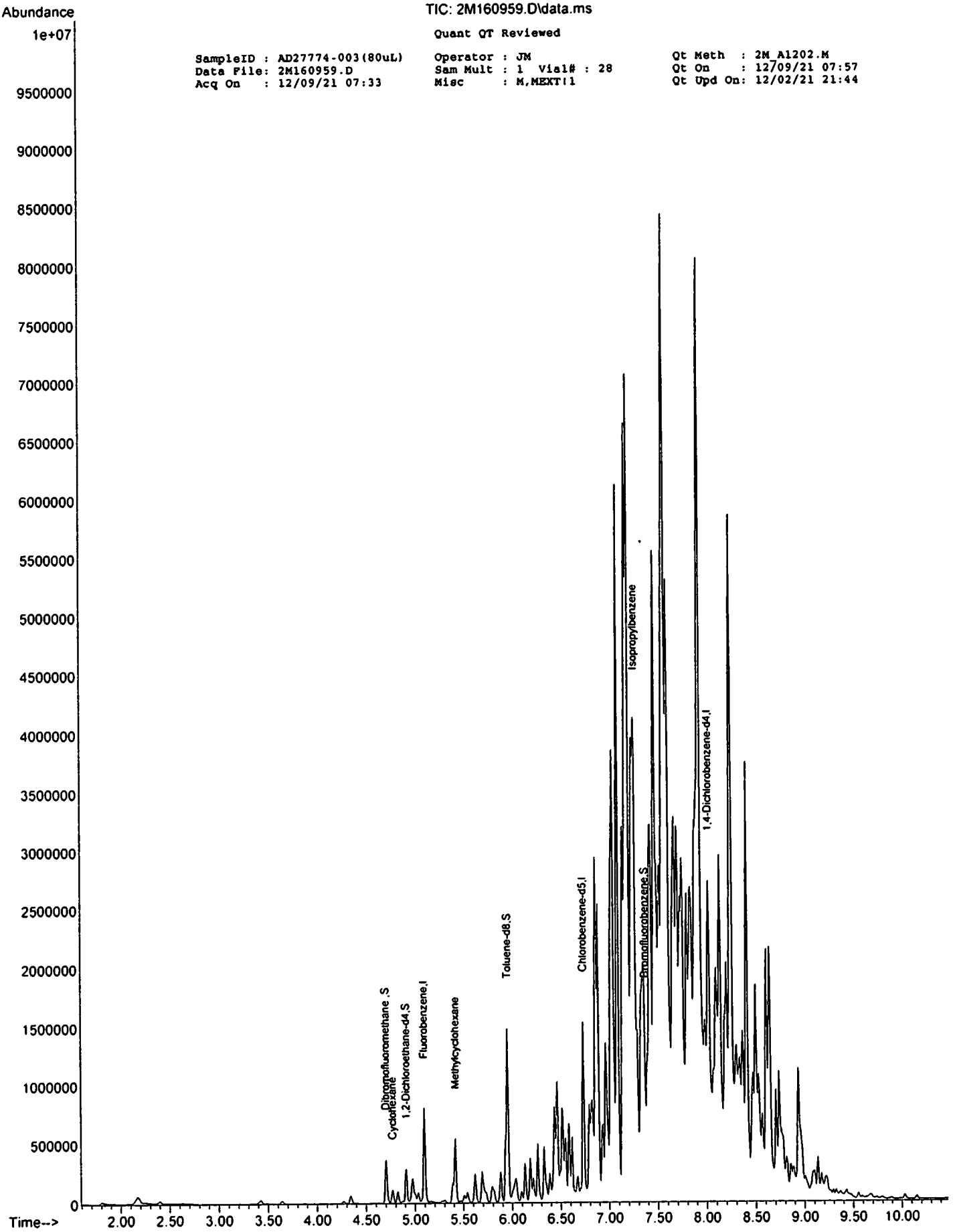
TIC: 2M160959.D\data.ms

Quant QT Reviewed

SampleID : AD27774-003(80uL)
Data File: 2M160959.D
Acq On : 12/09/21 07:33

Operator : JM
Sam Mult : 1 Vial# : 28
Misc : M,MEXT!1

Qt Meth : 2M_A1202.M
Qt On : 12/09/21 07:57
Qt Upd On: 12/02/21 21:44



2M_A1202.M Mon Dec 20 15:51:45 2021 RPT1

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M156349.D
Analysis Date: 12/08/21 22:57
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 622284

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

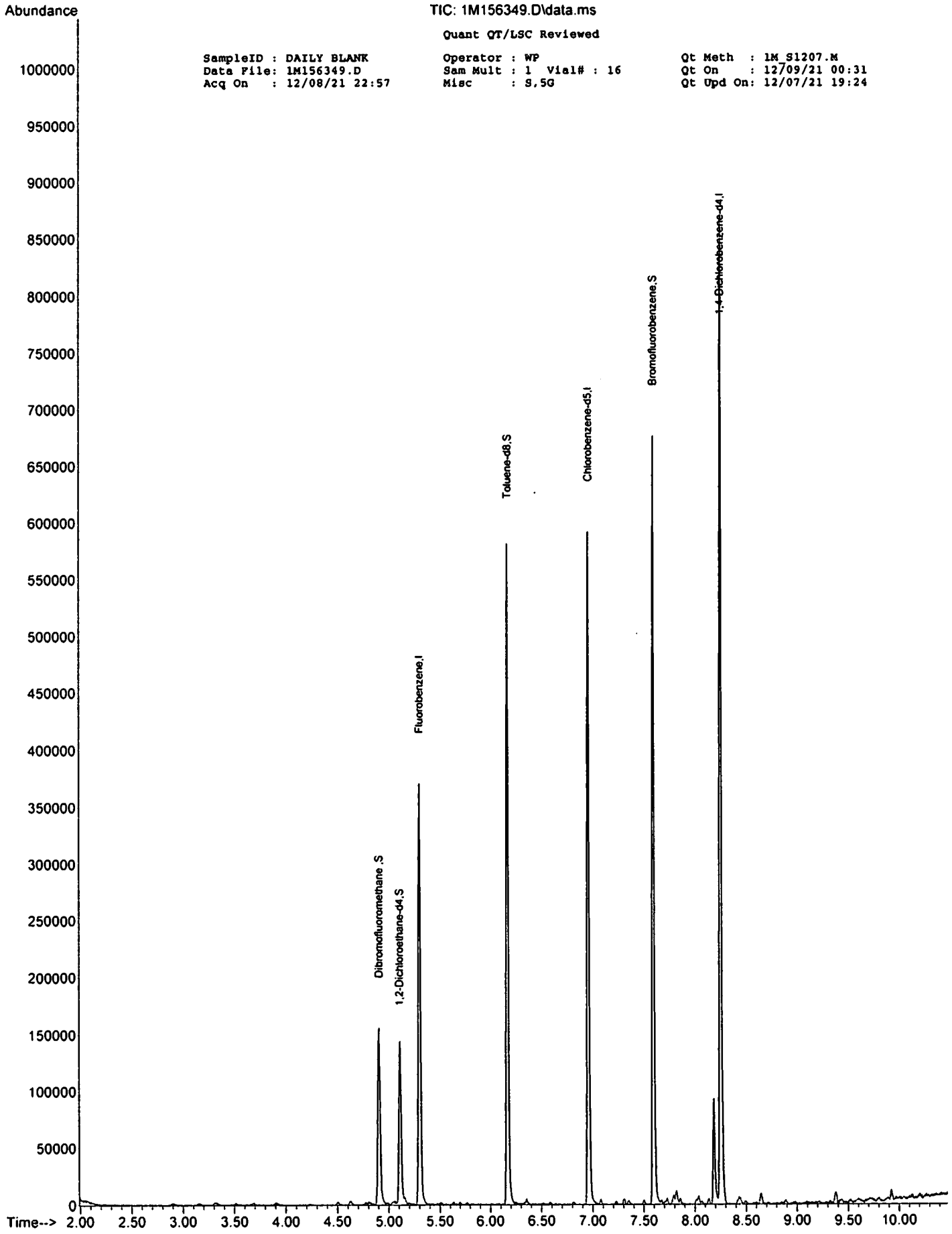
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : DAILY BLANK Operator : WP Qt Meth : 1M_S1207.M
Data File: 1M156349.D Sam Mult : 1 Vial# : 16 Qt On : 12/09/21 00:31
Acq On : 12/08/21 22:57 Misc : S,5G Qt Upd On: 12/07/21 19:24

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-08-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.302	96	250500	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.961	117	237948	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.254	152	175222	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.907	111	63782	31.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.27%			
39) 1,2-Dichloroethane-d4	5.106	67	43623	29.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.63%			
66) Toluene-d8	6.170	98	273115	30.25	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.83%			
76) Bromofluorobenzene	7.598	174	150263	32.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.73%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M156349.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 1M156349.D
Acq On : 12/08/21 22:57
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : S,5G
Qt Meth : 1M_S1207.M
Qt On : 12/09/21 00:31
Qt Upd On: 12/07/21 19:24
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M160938.D
Analysis Date: 12/09/21 00:41
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Methanol
Extraction Ratio: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.10	U	56-23-5	Carbon Tetrachloride	0.10	U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	U	108-90-7	Chlorobenzene	0.10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.10	U	75-00-3	Chloroethane	0.10	U
79-00-5	1,1,2-Trichloroethane	0.10	U	67-66-3	Chloroform	0.20	U
75-34-3	1,1-Dichloroethane	0.10	U	74-87-3	Chloromethane	0.10	U
75-35-4	1,1-Dichloroethene	0.10	U	156-59-2	cis-1,2-Dichloroethene	0.10	U
87-61-6	1,2,3-Trichlorobenzene	0.10	U	10061-01-5	cis-1,3-Dichloropropene	0.10	U
120-82-1	1,2,4-Trichlorobenzene	0.10	U	110-82-7	Cyclohexane	0.10	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.10	U	124-48-1	Dibromochloromethane	0.10	U
106-93-4	1,2-Dibromoethane	0.10	U	75-71-8	Dichlorodifluoromethane	0.10	U
95-50-1	1,2-Dichlorobenzene	0.10	U	100-41-4	Ethylbenzene	0.10	U
107-06-2	1,2-Dichloroethane	0.064	U	98-82-8	Isopropylbenzene	0.10	U
78-87-5	1,2-Dichloropropane	0.10	U	79601-23-1	m&p-Xylenes	0.10	U
541-73-1	1,3-Dichlorobenzene	0.10	U	79-20-9	Methyl Acetate	0.10	U
106-46-7	1,4-Dichlorobenzene	0.10	U	108-87-2	Methylcyclohexane	0.10	U
123-91-1	1,4-Dioxane	5.0	U	75-09-2	Methylene Chloride	0.10	U
78-93-3	2-Butanone	0.10	U	1634-04-4	Methyl-t-butyl ether	0.050	U
591-78-6	2-Hexanone	0.10	U	95-47-6	o-Xylene	0.10	U
108-10-1	4-Methyl-2-Pentanone	0.10	U	100-42-5	Styrene	0.10	U
67-64-1	Acetone	0.50	U	75-65-0	t-Butyl Alcohol	0.50	U
107-02-8	Acrolein	0.50	U	127-18-4	Tetrachloroethene	0.10	U
107-13-1	Acrylonitrile	0.10	U	108-88-3	Toluene	0.10	U
71-43-2	Benzene	0.050	U	156-60-5	trans-1,2-Dichloroethene	0.10	U
74-97-5	Bromochloromethane	0.10	U	10061-02-6	trans-1,3-Dichloropropene	0.10	U
75-27-4	Bromodichloromethane	0.10	U	79-01-6	Trichloroethene	0.10	U
75-25-2	Bromoform	0.10	U	75-69-4	Trichlorofluoromethane	0.10	U
74-83-9	Bromomethane	0.10	U	75-01-4	Vinyl Chloride	0.10	U
75-15-0	Carbon Disulfide	0.10	U				

Worksheet #: 622284

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

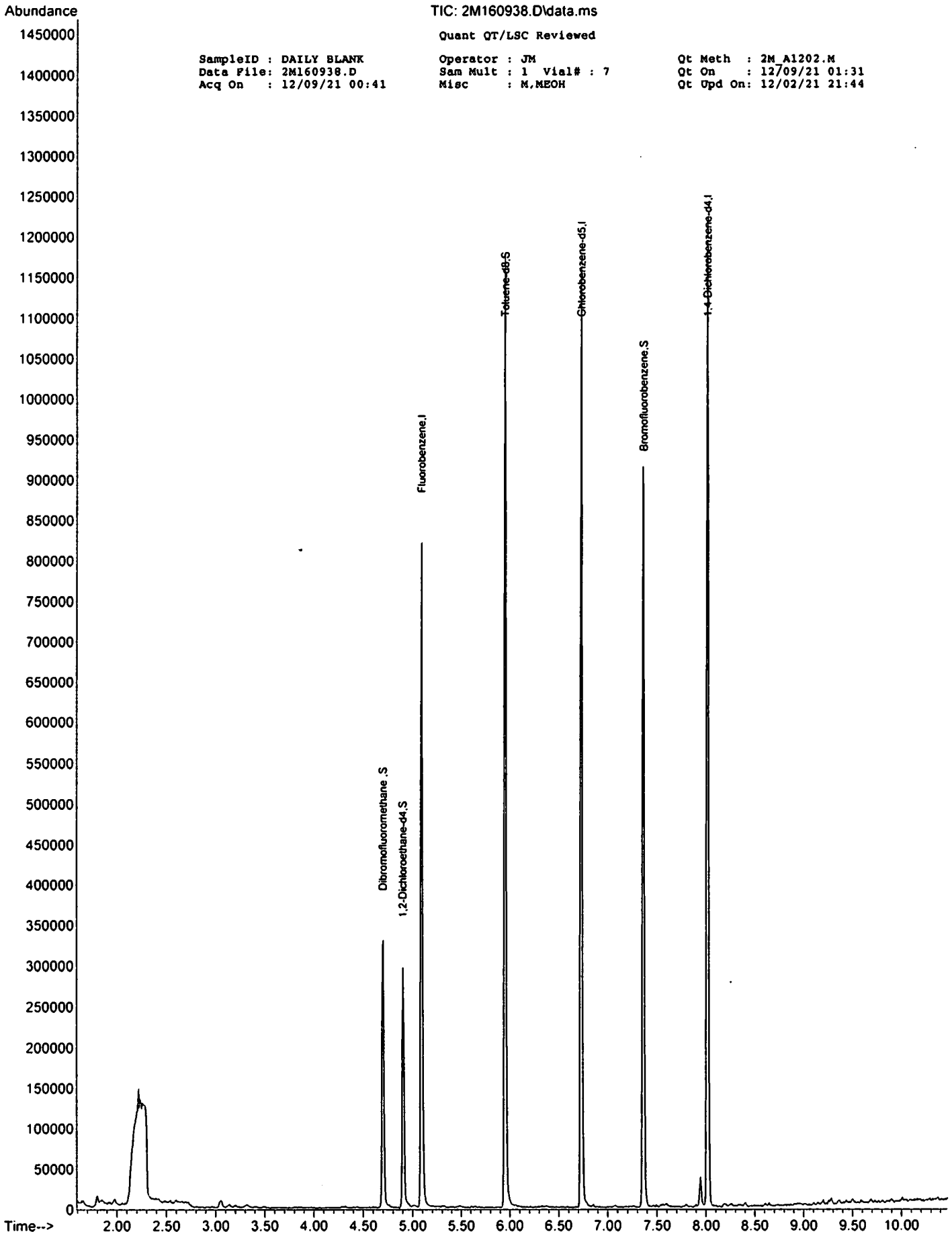
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : DAILY BLANK Operator : JM Qt Meth : 2M_A1202.M
Data File: 2M160938.D Sam Mult : 1 Vial# : 7 Qt On : 12/09/21 01:31
Acq On : 12/09/21 00:41 Misc : M,MEOH Qt Upd On: 12/02/21 21:44

Data Path : G:\GcMsData\2021\GCMS_2\Data\12-0821\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.093	96	465897	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	461516	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	233725	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	130682	28.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.43%			
39) 1,2-Dichloroethane-d4	4.904	67	68855	31.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.83%			
66) Toluene-d8	5.952	98	509350	29.57	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.57%			
76) Bromofluorobenzene	7.367	174	197132	30.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.93%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M160938.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 2M160938.D
Acq On : 12/09/21 00:41
Operator : JM
Sam Mult : 1 Vial# : 7
Misc : M,MEOH
Qt Meth : 2M_A1202.M
Qt On : 12/09/21 01:31
Qt Upd On: 12/02/21 21:44
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
1M156242.D	DAILY BLANK	S	12/07/21 01:06	1		110	118	101	112		
1M156349.D	DAILY BLANK	S	12/08/21 22:57	1		104	99	101	110		
2M160938.D	DAILY BLANK	M	12/09/21 00:41	1		94	104	99	101		
1M156369.D	AD27774-001	S	12/09/21 05:39	1		66	67	103	102		
1M156370.D	AD27774-002	S	12/09/21 05:59	1		104	105	99	103		
2M160959.D	AD27774-003(80uL)	M	12/09/21 07:33	1		97	101	102	85		
1M156248.D	MBS98158	S	12/07/21 03:07	1		112	117	103	105		
1M156253.D	AD27634-001	S	12/07/21 04:47	1		125	132	102	114		
1M156351.D	AD27634-001(MS)	S	12/08/21 23:37	1		106	104	102	112		
1M156352.D	AD27634-001(MSD)	S	12/08/21 23:57	1		108	107	100	108		
1M156353.D	MBS98178	S	12/09/21 00:17	1		105	101	101	103		
2M160949.D	MBS98174	M	12/09/21 04:17	1		99	105	98	99		
2M160960.D	AD27673-006(MS)	M	12/09/21 07:52	1		94	98	99	96		
2M160961.D	AD27673-006(MSD)	M	12/09/21 08:12	1		97	103	99	97		
2M160962.D	AD27673-006	M	12/09/21 08:31	1		94	106	96	95		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98158

Data File	Sample ID:	Analysis Date
Spike or Dup: 1M156248.D	MBS98158	12/7/2021 3:07:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	69.2052	0	50	138*	20	130
Dichlorodifluoromethane	1	67.4558	0	50	135*	20	130
Chloromethane	1	60.2655	0	50	121	20	130
Bromomethane	1	35.9621	0	50	72	20	130
Vinyl Chloride	1	50.6013	0	50	101	20	130
Chloroethane	1	46.8445	0	50	94	20	130
Trichlorofluoromethane	1	58.2749	0	50	117	20	130
Ethyl ether	1	45.1978	0	50	90	50	130
Furan	1	55.1643	0	50	110	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	40.5726	0	50	81	50	130
Methylene Chloride	1	39.7671	0	50	80	50	130
Acrolein	1	219.3982	0	200	110	20	130
Acrylonitrile	1	49.6019	0	50	99	20	130
Iodomethane	1	40.6147	0	50	81	50	130
Acetone	1	287.2732	0	200	144*	20	130
Carbon Disulfide	1	36.5583	0	50	73	50	130
t-Butyl Alcohol	1	249.9982	0	200	125	20	130
n-Hexane	1	45.9977	0	50	92	50	130
Di-isopropyl-ether	1	51.3509	0	50	103	50	130
1,1-Dichloroethene	1	57.3843	0	50	115	50	130
Methyl Acetate	1	54.0212	0	50	108	50	130
Methyl-t-butyl ether	1	48.693	0	50	97	50	130
1,1-Dichloroethane	1	47.711	0	50	95	50	130
trans-1,2-Dichloroethene	1	48.0371	0	50	96	50	130
Ethyl-t-butyl ether	1	46.8531	0	50	94	50	130
cis-1,2-Dichloroethene	1	46.4714	0	50	93	50	130
Bromochloromethane	1	54.3346	0	50	109	50	130
2,2-Dichloropropane	1	53.7255	0	50	107	50	130
Ethyl acetate	1	44.3404	0	50	89	50	130
1,4-Dioxane	1	1832.199	0	2500	73	50	130
1,1-Dichloropropene	1	54.3505	0	50	109	50	130
Chloroform	1	51.0681	0	50	102	50	130
Cyclohexane	1	49.684	0	50	99	50	130
1,2-Dichloroethane	1	62.3468	0	50	125	50	130
2-Butanone	1	52.1775	0	50	104	20	130
1,1,1-Trichloroethane	1	60.8732	0	50	122	50	130
Carbon Tetrachloride	1	64.1318	0	50	128	50	130
Vinyl Acetate	1	54.7446	0	50	109	50	130
Bromodichloromethane	1	57.0564	0	50	114	50	130
Methylcyclohexane	1	49.3744	0	50	99	50	130
Dibromomethane	1	47.3313	0	50	95	50	130
1,2-Dichloropropane	1	49.3389	0	50	99	50	130
Trichloroethene	1	48.4411	0	50	97	50	130
Benzene	1	45.9022	0	50	92	50	130
tert-Amyl methyl ether	1	52.9825	0	50	106	50	130
Iso-propylacetate	1	60.206	0	50	120	50	130
Methyl methacrylate	1	66.8966	0	50	134*	50	130
Dibromochloromethane	1	58.6927	0	50	117	50	130
2-Chloroethylvinylether	1	46.4792	0	50	93	50	130
cis-1,3-Dichloropropene	1	52.4882	0	50	105	50	130
trans-1,3-Dichloropropene	1	55.5417	0	50	111	50	130
Ethyl methacrylate	1	59.6182	0	50	119	50	130
1,1,2-Trichloroethane	1	47.5817	0	50	95	50	130
1,2-Dibromoethane	1	50.0446	0	50	100	50	130
1,3-Dichloropropane	1	49.199	0	50	98	50	130
4-Methyl-2-Pentanone	1	62.0458	0	50	124	20	130
2-Hexanone	1	60.7723	0	50	122	20	130
Tetrachloroethene	1	51.6937	0	50	103	50	130
Toluene	1	52.6806	0	50	105	50	130
1,1,1,2-Tetrachloroethane	1	57.9537	0	50	116	50	130
Chlorobenzene	1	48.0178	0	50	96	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98158

Method: 8260D	Matrix: Soil	Units: mg/Kg	QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	48.8452	0	50	98	50	130
n-Amyl acetate	1	50.771	0	50	102	50	130
Bromoform	**1**	**51.8456**	**0**	**50**	**104**	**20**	**130**
Ethylbenzene	**1**	**49.1206**	**0**	**50**	**98**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**42.2827**	**0**	**50**	**85**	**50**	**130**
Styrene	**1**	**49.2049**	**0**	**50**	**98**	**50**	**130**
m&p-Xylenes	**1**	**99.0208**	**0**	**100**	**99**	**50**	**130**
o-Xylene	**1**	**45.2061**	**0**	**50**	**90**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	56.433	0	50	113	20	130
1,3-Dichlorobenzene	**1**	**47.749**	**0**	**50**	**95**	**50**	**130**
1,4-Dichlorobenzene	**1**	**46.8628**	**0**	**50**	**94**	**50**	**130**
1,2-Dichlorobenzene	**1**	**46.0028**	**0**	**50**	**92**	**50**	**130**
Isopropylbenzene	**1**	**50.6275**	**0**	**50**	**101**	**50**	**130**
Cyclohexanone	1	464.0791	0	250	186*	50	130
Camphene	1	52.3262	0	50	105	50	130
1,2,3-Trichloropropane	1	45.5083	0	50	91	50	130
2-Chlorotoluene	1	48.6159	0	50	97	50	130
p-Ethyltoluene	1	46.2585	0	50	93	50	130
4-Chlorotoluene	1	49.7306	0	50	99	50	130
n-Propylbenzene	1	47.8029	0	50	96	50	130
Bromobenzene	1	50.3954	0	50	101	50	130
1,3,5-Trimethylbenzene	1	48.5698	0	50	97	50	130
Butyl methacrylate	1	56.7018	0	50	113	50	130
t-Butylbenzene	1	50.9592	0	50	102	50	130
1,2,4-Trimethylbenzene	1	50.0549	0	50	100	50	130
sec-Butylbenzene	1	45.9404	0	50	92	50	130
4-Isopropyltoluene	1	43.167	0	50	86	50	130
n-Butylbenzene	1	45.9159	0	50	92	50	130
p-Diethylbenzene	1	45.6834	0	50	91	50	130
1,2,4,5-Tetramethylbenzene	1	45.5548	0	50	91	50	130
1,2-Dibromo-3-Chloropropane	**1**	**44.3793**	**0**	**50**	**89**	**50**	**130**
Camphor	1	490.9287	0	500	98	50	130
Hexachlorobutadiene	1	58.4761	0	50	117	50	130
1,2,4-Trichlorobenzene	**1**	**51.0162**	**0**	**50**	**102**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**51.6295**	**0**	**50**	**103**	**50**	**130**
Naphthalene	1	45.1004	0	50	90	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98174

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M160949.D	MBS98174	12/9/2021 4:17:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	15.4928	0	20	77	50	150
Dichlorodifluoromethane	1	11.1961	0	20	56	50	150
Chloromethane	1	12.086	0	20	60	50	150
Bromomethane	1	17.2343	0	20	86	50	150
Vinyl Chloride	1	12.3982	0	20	62	50	150
Chloroethane	1	17.4978	0	20	87	50	150
Trichlorofluoromethane	1	13.779	0	20	69	50	150
Ethyl ether	1	14.5014	0	20	73	50	150
Furan	1	14.8885	0	20	74	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	14.535	0	20	73	50	150
Methylene Chloride	1	14.6825	0	20	73	70	130
Acrolein	1	66.0579	0	100	66	50	150
Acrylonitrile	1	14.2637	0	20	71	50	150
Iodomethane	1	10.0789	0	20	50	50	150
Acetone	1	65.0997	0	100	65	50	150
Carbon Disulfide	1	13.8644	0	20	69	50	150
t-Butyl Alcohol	1	78.6371	0	100	79	50	150
n-Hexane	1	15.6597	0	20	78	70	130
Di-isopropyl-ether	1	15.4797	0	20	77	70	130
1,1-Dichloroethene	1	14.5473	0	20	73	70	130
Methyl Acetate	1	15.6249	0	20	78	50	150
Methyl-t-butyl ether	1	15.1027	0	20	76	70	130
1,1-Dichloroethane	1	15.1958	0	20	76	70	130
trans-1,2-Dichloroethene	1	14.7636	0	20	74	70	130
Ethyl-t-butyl ether	1	15.8055	0	20	79	70	130
cis-1,2-Dichloroethene	1	15.0734	0	20	75	70	130
Bromochloromethane	1	15.3735	0	20	77	70	130
2,2-Dichloropropane	1	15.6923	0	20	78	70	130
Ethyl acetate	1	13.7339	0	20	69	50	150
1,4-Dioxane	1	757.092	0	1000	76	50	150
1,1-Dichloropropene	1	15.4326	0	20	77	70	130
Chloroform	1	14.8133	0	20	74	70	130
Cyclohexane	1	15.9128	0	20	80	70	130
1,2-Dichloroethane	1	14.4679	0	20	72	70	130
2-Butanone	1	14.88	0	20	74	50	150
1,1,1-Trichloroethane	1	14.8012	0	20	74	70	130
Carbon Tetrachloride	1	14.1849	0	20	71	50	150
Vinyl Acetate	1	14.5869	0	20	73	50	150
Bromodichloromethane	1	14.3395	0	20	72	70	130
Methylcyclohexane	1	15.6906	0	20	78	70	130
Dibromomethane	1	13.1994	0	20	66*	70	130
1,2-Dichloropropane	1	15.328	0	20	77	70	130
Trichloroethene	1	14.2692	0	20	71	70	130
Benzene	1	15.2546	0	20	76	70	130
tert-Amyl methyl ether	1	15.2007	0	20	76	70	130
Iso-propylacetate	1	13.8823	0	20	69*	70	130
Methyl methacrylate	1	14.6332	0	20	73	70	130
Dibromochloromethane	1	12.0295	0	20	60*	70	130
2-Chloroethylvinylether	1	10.7658	0	20	54*	70	130
cis-1,3-Dichloropropene	1	13.7514	0	20	69*	70	130
trans-1,3-Dichloropropene	1	12.9266	0	20	65*	70	130
Ethyl methacrylate	1	13.5739	0	20	68*	70	130
1,1,2-Trichloroethane	1	13.5948	0	20	68*	70	130
1,2-Dibromoethane	1	13.1972	0	20	66*	70	130
1,3-Dichloropropane	1	13.8798	0	20	69*	70	130
4-Methyl-2-Pentanone	1	13.3117	0	20	67	50	150
2-Hexanone	1	13.4551	0	20	67	50	150
Tetrachloroethene	1	13.0039	0	20	65	50	150
Toluene	1	13.812	0	20	69*	70	130
1,1,1,2-Tetrachloroethane	1	12.2872	0	20	61*	70	130
Chlorobenzene	1	13.4375	0	20	67*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98174

Method: 8260D	Matrix: Methanol	Units: mg/Kg	QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	13.936	0	20	70	70	130
n-Amyl acetate	1	13.9434	0	20	70	70	130
Bromoform	**1**	**11.3391**	**0**	**20**	**57***	**70**	**130**
Ethylbenzene	**1**	**13.0536**	**0**	**20**	**65***	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**13.6326**	**0**	**20**	**68***	**70**	**130**
Styrene	**1**	**13.3853**	**0**	**20**	**67***	**70**	**130**
m&p-Xylenes	**1**	**27.0016**	**0**	**40**	**68***	**70**	**130**
o-Xylene	**1**	**13.1232**	**0**	**20**	**66***	**70**	**130**
trans-1,4-Dichloro-2-butene	1	12.1569	0	20	61	50	150
1,3-Dichlorobenzene	**1**	**13.2494**	**0**	**20**	**66***	**70**	**130**
1,4-Dichlorobenzene	**1**	**13.2245**	**0**	**20**	**66***	**70**	**130**
1,2-Dichlorobenzene	**1**	**13.1262**	**0**	**20**	**66***	**70**	**130**
Isopropylbenzene	**1**	**14.0747**	**0**	**20**	**70**	**70**	**130**
Cyclohexanone	1	72.3652	0	100	72	50	150
Camphene	1	14.149	0	20	71	70	130
1,2,3-Trichloropropane	1	13.1132	0	20	66*	70	130
2-Chlorotoluene	1	13.1401	0	20	66*	70	130
p-Ethyltoluene	1	15.1389	0	20	76	70	130
4-Chlorotoluene	1	14.4296	0	20	72	70	130
n-Propylbenzene	1	14.7125	0	20	74	70	130
Bromobenzene	1	13.5487	0	20	68*	70	130
1,3,5-Trimethylbenzene	1	13.759	0	20	69*	70	130
Butyl methacrylate	1	14.5222	0	20	73	70	130
t-Butylbenzene	1	13.6117	0	20	68*	70	130
1,2,4-Trimethylbenzene	1	14.2229	0	20	71	70	130
sec-Butylbenzene	1	14.3421	0	20	72	70	130
4-Isopropyltoluene	1	14.0111	0	20	70	70	130
n-Butylbenzene	1	15.174	0	20	76	70	130
p-Diethylbenzene	1	15.0727	0	20	75	70	130
1,2,4,5-Tetramethylbenzene	1	15.9455	0	20	80	70	130
1,2-Dibromo-3-Chloropropane	**1**	**12.7887**	**0**	**20**	**64**	**50**	**150**
Camphor	1	143.1269	0	200	72	20	150
Hexachlorobutadiene	1	16.7435	0	20	84	50	150
1,2,4-Trichlorobenzene	**1**	**15.031**	**0**	**20**	**75**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**15.2604**	**0**	**20**	**76**	**70**	**130**
Naphthalene	1	15.5773	0	20	78	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98174

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M160960.D	AD27673-006(MS)	12/9/2021 7:52:00 AM
Non Spike(If applicable):	2M160962.D	AD27673-006	12/9/2021 8:31:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	8.5851	0	20	43*	50	150
Dichlorodifluoromethane	1	10.2165	0	20	51	50	150
Chloromethane	1	11.6633	0	20	58	50	150
Bromomethane	1	15.5273	5.4058	20	51	50	150
Vinyl Chloride	1	12.6745	0	20	63	50	150
Chloroethane	1	16.7166	0	20	84	50	150
Trichlorofluoromethane	1	12.794	0	20	64	50	150
Ethyl ether	1	13.9997	0	20	70	50	150
Furan	1	14.6105	0	20	73	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	13.3169	0	20	67	50	150
Methylene Chloride	1	13.8082	0	20	69*	70	130
Acrolein	1	61.9286	0	100	62	50	150
Acrylonitrile	1	14.1839	0	20	71	50	150
Iodomethane	1	7.4356	1.1193	20	32*	50	150
Acetone	1	64.8508	0	100	65	50	150
Carbon Disulfide	1	13.0566	0	20	65	50	150
t-Butyl Alcohol	1	71.821	0	100	72	50	150
n-Hexane	1	14.5667	0	20	73	70	130
Di-isopropyl-ether	1	14.0487	0	20	70	70	130
1,1-Dichloroethene	1	13.4481	0	20	67*	70	130
Methyl Acetate	1	16.3413	1.0953	20	76	50	150
Methyl-t-butyl ether	1	14.2141	0	20	71	70	130
1,1-Dichloroethane	1	14.0673	0	20	70	70	130
trans-1,2-Dichloroethene	1	12.7644	0	20	64*	70	130
Ethyl-t-butyl ether	1	14.9726	0	20	75	70	130
cis-1,2-Dichloroethene	1	13.9634	0	20	70	70	130
Bromochloromethane	1	14.2082	0	20	71	70	130
2,2-Dichloropropane	1	12.5411	0	20	63*	70	130
Ethyl acetate	1	12.792	0	20	64	50	150
1,4-Dioxane	1	742.4368	57.3584	1000	69	50	150
1,1-Dichloropropene	1	14.7705	0	20	74	70	130
Chloroform	1	14.0153	0	20	70	70	130
Cyclohexane	1	14.6675	0	20	73	70	130
1,2-Dichloroethane	1	13.8141	0	20	69*	70	130
2-Butanone	1	15.5123	0	20	78	50	150
1,1,1-Trichloroethane	1	13.7691	0	20	69*	70	130
Carbon Tetrachloride	1	12.5913	0	20	63	50	150
Vinyl Acetate	1	12.4769	0	20	62	50	150
Bromodichloromethane	1	13.0735	0	20	65*	70	130
Methylcyclohexane	1	14.864	0	20	74	70	130
Dibromomethane	1	12.3869	0	20	62*	70	130
1,2-Dichloropropane	1	14.5913	0	20	73	70	130
Trichloroethene	1	13.1776	0	20	66*	70	130
Benzene	1	14.2619	0	20	71	70	130
tert-Amyl methyl ether	1	14.2477	0	20	71	70	130
Iso-propylacetate	1	14.5281	0	20	73	70	130
Methyl methacrylate	1	13.3112	0	20	67*	70	130
Dibromochloromethane	1	11.219	0	20	56*	70	130
2-Chloroethylvinylether	1	14.8218	0	20	74	70	130
cis-1,3-Dichloropropene	1	13.3014	0	20	67*	70	130
trans-1,3-Dichloropropene	1	13.0515	0	20	65*	70	130
Ethyl methacrylate	1	13.9869	0	20	70	70	130
1,1,2-Trichloroethane	1	13.7122	0	20	69*	70	130
1,2-Dibromoethane	1	12.9096	0	20	65*	70	130
1,3-Dichloropropane	1	13.922	0	20	70	70	130
4-Methyl-2-Pentanone	1	14.6876	0	20	73	50	150
2-Hexanone	1	15.5334	0	20	78	50	150
Tetrachloroethene	1	12.2277	0	20	61	50	150
Toluene	1	13.6743	0	20	68*	70	130
1,1,1,2-Tetrachloroethane	1	11.5044	0	20	58*	70	130
Chlorobenzene	1	13.3511	0	20	67*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98174

Method: 8260D	Matrix: Methanol	Units: mg/Kg	QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	13.9849	0	20	70	70	130
n-Amyl acetate	1	10.3436	1.9772	20	42*	70	130
Bromoform	1	10.6753	0	20	53*	70	130
Ethylbenzene	1	12.8218	0	20	64*	70	130
1,1,2,2-Tetrachloroethane	1	15.7026	0	20	79	70	130
Styrene	1	12.1871	0	20	61*	70	130
m&p-Xylenes	1	25.5288	0	40	64*	70	130
o-Xylene	1	12.2314	0	20	61*	70	130
trans-1,4-Dichloro-2-butene	1	21.6244	0	20	108	50	150
1,3-Dichlorobenzene	1	12.18	0	20	61*	70	130
1,4-Dichlorobenzene	1	12.6737	0	20	63*	70	130
1,2-Dichlorobenzene	1	12.2744	0	20	61*	70	130
Isopropylbenzene	1	13.6165	0	20	68*	70	130
Cyclohexanone	1	150.6967	15.8932	100	135	50	150
Camphene	1	13.8116	0	20	69*	70	130
1,2,3-Trichloropropane	1	12.9274	14.1439	20	-6.1*	70	130
2-Chlorotoluene	1	12.4722	0	20	62*	70	130
p-Ethyltoluene	1	14.2356	0	20	71	70	130
4-Chlorotoluene	1	12.7242	0	20	64*	70	130
n-Propylbenzene	1	14.2237	0	20	71	70	130
Bromobenzene	1	13.9765	0	20	70	70	130
1,3,5-Trimethylbenzene	1	13.0791	0	20	65*	70	130
Butyl methacrylate	1	48.2212	0	20	241*	70	130
t-Butylbenzene	1	13.3969	0	20	67*	70	130
1,2,4-Trimethylbenzene	1	13.6174	0	20	68*	70	130
sec-Butylbenzene	1	14.1814	0	20	71	70	130
4-Isopropyltoluene	1	12.9319	0	20	65*	70	130
n-Butylbenzene	1	15.1167	1.0238	20	70	70	130
p-Diethylbenzene	1	15.8705	1.1315	20	74	70	130
1,2,4,5-Tetramethylbenzene	1	18.4044	1.41	20	85	70	130
1,2-Dibromo-3-Chloropropane	1	10.4537	0	20	52	50	150
Camphor	1	128.6141	11.3028	200	59	20	150
Hexachlorobutadiene	1	13.1285	2.2795	20	54	50	150
1,2,4-Trichlorobenzene	1	11.8549	2.1277	20	49*	70	130
1,2,3-Trichlorobenzene	1	11.2179	2.8569	20	42*	70	130
Naphthalene	1	12.4271	2.5067	20	50	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98174

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M160961.D	AD27673-006(MSD)	12/9/2021 8:12:00 AM
Non Spike(If applicable):	2M160962.D	AD27673-006	12/9/2021 8:31:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	8.4832	0	20	42*	50	150
Dichlorodifluoromethane	1	10.0988	0	20	50	50	150
Chloromethane	1	11.3389	0	20	57	50	150
Bromomethane	1	15.909	5.4058	20	53	50	150
Vinyl Chloride	1	11.2986	0	20	56	50	150
Chloroethane	1	17.5473	0	20	88	50	150
Trichlorofluoromethane	1	12.494	0	20	62	50	150
Ethyl ether	1	13.6017	0	20	68	50	150
Furan	1	13.8104	0	20	69	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	12.6425	0	20	63	50	150
Methylene Chloride	1	13.4151	0	20	67*	70	130
Acrolein	1	56.6583	0	100	57	50	150
Acrylonitrile	1	13.7708	0	20	69	50	150
Iodomethane	1	9.6319	1.1193	20	43*	50	150
Acetone	1	64.5497	0	100	65	50	150
Carbon Disulfide	1	11.9752	0	20	60	50	150
t-Butyl Alcohol	1	71.9415	0	100	72	50	150
n-Hexane	1	14.6645	0	20	73	70	130
Di-isopropyl-ether	1	13.4002	0	20	67*	70	130
1,1-Dichloroethene	1	12.5597	0	20	63*	70	130
Methyl Acetate	1	15.5251	1.0953	20	72	50	150
Methyl-t-butyl ether	1	13.7374	0	20	69*	70	130
1,1-Dichloroethane	1	13.7925	0	20	69*	70	130
trans-1,2-Dichloroethene	1	12.1103	0	20	61*	70	130
Ethyl-t-butyl ether	1	14.4309	0	20	72	70	130
cis-1,2-Dichloroethene	1	13.1448	0	20	66*	70	130
Bromochloromethane	1	14.1088	0	20	71	70	130
2,2-Dichloropropane	1	12.7358	0	20	64*	70	130
Ethyl acetate	1	12.3803	0	20	62	50	150
1,4-Dioxane	1	720.3731	57.3584	1000	66	50	150
1,1-Dichloropropene	1	13.6376	0	20	68*	70	130
Chloroform	1	13.6243	0	20	68*	70	130
Cyclohexane	1	14.9153	0	20	75	70	130
1,2-Dichloroethane	1	13.2559	0	20	66*	70	130
2-Butanone	1	14.7209	0	20	74	50	150
1,1,1-Trichloroethane	1	13.2711	0	20	66*	70	130
Carbon Tetrachloride	1	12.5334	0	20	63	50	150
Vinyl Acetate	1	12.6596	0	20	63	50	150
Bromodichloromethane	1	12.7809	0	20	64*	70	130
Methylcyclohexane	1	15.3104	0	20	77	70	130
Dibromomethane	1	12.198	0	20	61*	70	130
1,2-Dichloropropane	1	14.0981	0	20	70	70	130
Trichloroethene	1	12.3039	0	20	62*	70	130
Benzene	1	13.8505	0	20	69*	70	130
tert-Amyl methyl ether	1	14.1097	0	20	71	70	130
Iso-propylacetate	1	12.3877	0	20	62*	70	130
Methyl methacrylate	1	13.2463	0	20	66*	70	130
Dibromochloromethane	1	10.4368	0	20	52*	70	130
2-Chloroethylvinylether	1	8.511	0	20	43*	70	130
cis-1,3-Dichloropropene	1	12.4891	0	20	62*	70	130
trans-1,3-Dichloropropene	1	11.9415	0	20	60*	70	130
Ethyl methacrylate	1	12.7611	0	20	64*	70	130
1,1,2-Trichloroethane	1	13.0126	0	20	65*	70	130
1,2-Dibromoethane	1	11.761	0	20	59*	70	130
1,3-Dichloropropane	1	12.9707	0	20	65*	70	130
4-Methyl-2-Pentanone	1	13.4317	0	20	67	50	150
2-Hexanone	1	13.2616	0	20	66	50	150
Tetrachloroethene	1	11.1705	0	20	56	50	150
Toluene	1	12.7	0	20	64*	70	130
1,1,1,2-Tetrachloroethane	1	11.2696	0	20	56*	70	130
Chlorobenzene	1	12.3076	0	20	62*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98174

Method: 8260D	Matrix: Methanol		Units: mg/Kg	QC Type: MSD		

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	14.8094	0	20	74	70	130
n-Amyl acetate	1	17.3134	1.9772	20	77	70	130
Bromoform	**1**	**9.8314**	**0**	**20**	**49***	**70**	**130**
Ethylbenzene	**1**	**12.012**	**0**	**20**	**60***	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**13.102**	**0**	**20**	**66***	**70**	**130**
Styrene	**1**	**11.6681**	**0**	**20**	**58***	**70**	**130**
m&p-Xylenes	**1**	**24.0182**	**0**	**40**	**60***	**70**	**130**
o-Xylene	**1**	**11.4945**	**0**	**20**	**57***	**70**	**130**
trans-1,4-Dichloro-2-butene	1	13.4007	0	20	67	50	150
1,3-Dichlorobenzene	**1**	**11.7402**	**0**	**20**	**59***	**70**	**130**
1,4-Dichlorobenzene	**1**	**11.9212**	**0**	**20**	**60***	**70**	**130**
1,2-Dichlorobenzene	**1**	**11.9484**	**0**	**20**	**60***	**70**	**130**
Isopropylbenzene	**1**	**12.6206**	**0**	**20**	**63***	**70**	**130**
Cyclohexanone	1	85.8237	15.8932	100	70	50	150
Camphene	1	13.2282	0	20	66*	70	130
1,2,3-Trichloropropane	1	11.9986	14.1439	20	-11*	70	130
2-Chlorotoluene	1	12.3828	0	20	62*	70	130
p-Ethyltoluene	1	13.6762	0	20	68*	70	130
4-Chlorotoluene	1	13.2394	0	20	66*	70	130
n-Propylbenzene	1	13.2866	0	20	66*	70	130
Bromobenzene	1	12.5964	0	20	63*	70	130
1,3,5-Trimethylbenzene	1	12.5858	0	20	63*	70	130
Butyl methacrylate	1	21.6924	0	20	108	70	130
t-Butylbenzene	1	12.4651	0	20	62*	70	130
1,2,4-Trimethylbenzene	1	13.0107	0	20	65*	70	130
sec-Butylbenzene	1	13.5707	0	20	68*	70	130
4-Isopropyltoluene	1	12.5123	0	20	63*	70	130
n-Butylbenzene	1	13.6309	1.0238	20	63*	70	130
p-Diethylbenzene	1	14.1775	1.1315	20	65*	70	130
1,2,4,5-Tetramethylbenzene	1	15.4356	1.41	20	70	70	130
1,2-Dibromo-3-Chloropropane	**1**	**10.1772**	**0**	**20**	**51**	**50**	**150**
Camphor	1	117.3525	11.3028	200	53	20	150
Hexachlorobutadiene	1	12.1501	2.2795	20	49*	50	150
1,2,4-Trichlorobenzene	**1**	**12.7965**	**2.1277**	**20**	**53***	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**12.7054**	**2.8569**	**20**	**49***	**70**	**130**
Naphthalene	1	13.3401	2.5067	20	54	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98174

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M160961.D	AD27673-006(MSD)	12/9/2021 8:12:00 AM
Duplicate(If applicable):	2M160960.D	AD27673-006(MS)	12/9/2021 7:52:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	8.4832	8.5851	1.2	30
Dichlorodifluoromethane	1	10.0988	10.2165	1.2	30
Chloromethane	1	11.3389	11.6633	2.8	30
Bromomethane	1	15.909	15.5273	2.4	30
Vinyl Chloride	1	11.2986	12.6745	11	40
Chloroethane	1	17.5473	16.7166	4.8	30
Trichlorofluoromethane	1	12.494	12.794	2.4	30
Ethyl ether	1	13.6017	13.9997	2.9	30
Furan	1	13.8104	14.6105	5.6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	12.6425	13.3169	5.2	30
Methylene Chloride	1	13.4151	13.8082	2.9	30
Acrolein	1	56.6583	61.9286	8.9	30
Acrylonitrile	1	13.7708	14.1839	3	30
Iodomethane	1	9.6319	7.4356	26	30
Acetone	1	64.5497	64.8508	0.47	30
Carbon Disulfide	1	11.9752	13.0566	8.6	30
t-Butyl Alcohol	1	71.9415	71.821	0.17	30
n-Hexane	1	14.6645	14.5667	0.67	30
Di-isopropyl-ether	1	13.4002	14.0487	4.7	30
1,1-Dichloroethene	1	12.5597	13.4481	6.8	40
Methyl Acetate	1	15.5251	16.3413	5.1	30
Methyl-t-butyl ether	1	13.7374	14.2141	3.4	30
1,1-Dichloroethane	1	13.7925	14.0673	2	40
trans-1,2-Dichloroethene	1	12.1103	12.7644	5.3	30
Ethyl-t-butyl ether	1	14.4309	14.9726	3.7	30
cis-1,2-Dichloroethene	1	13.1448	13.9634	6	30
Bromochloromethane	1	14.1088	14.2082	0.7	30
2,2-Dichloropropane	1	12.7358	12.5411	1.5	30
Ethyl acetate	1	12.3803	12.792	3.3	20
1,4-Dioxane	1	720.3731	742.4368	3	30
1,1-Dichloropropene	1	13.6376	14.7705	8	30
Chloroform	1	13.6243	14.0153	2.8	40
Cyclohexane	1	14.9153	14.6675	1.7	30
1,2-Dichloroethane	1	13.2559	13.8141	4.1	40
2-Butanone	1	14.7209	15.5123	5.2	40
1,1,1-Trichloroethane	1	13.2711	13.7691	3.7	30
Carbon Tetrachloride	1	12.5334	12.5913	0.46	40
Vinyl Acetate	1	12.6596	12.4769	1.5	30
Bromodichloromethane	1	12.7809	13.0735	2.3	30
Methylcyclohexane	1	15.3104	14.864	3	30
Dibromomethane	1	12.198	12.3869	1.5	30
1,2-Dichloropropane	1	14.0981	14.5913	3.4	30
Trichloroethene	1	12.3039	13.1776	6.9	40
Benzene	1	13.8505	14.2619	2.9	40
tert-Amyl methyl ether	1	14.1097	14.2477	0.97	30
Iso-propylacetate	1	12.3877	14.5281	16	30
Methyl methacrylate	1	13.2463	13.3112	0.49	30
Dibromochloromethane	1	10.4368	11.219	7.2	30
2-Chloroethylvinylether	1	8.511	14.8218	54*	30
cis-1,3-Dichloropropene	1	12.4891	13.3014	6.3	30
trans-1,3-Dichloropropene	1	11.9415	13.0515	8.9	30
Ethyl methacrylate	1	12.7611	13.9869	9.2	30
1,1,2-Trichloroethane	1	13.0126	13.7122	5.2	30
1,2-Dibromoethane	1	11.761	12.9096	9.3	30
1,3-Dichloropropane	1	12.9707	13.922	7.1	30
4-Methyl-2-Pentanone	1	13.4317	14.6876	8.9	30
2-Hexanone	1	13.2616	15.5334	16	30
Tetrachloroethene	1	11.1705	12.2277	9	40
Toluene	1	12.7	13.6743	7.4	40
1,1,1,2-Tetrachloroethane	1	11.2696	11.5044	2.1	30
Chlorobenzene	1	12.3076	13.3511	8.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98174

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	14.8094	13.9849	5.7	30
n-Amyl acetate	1	17.3134	10.3436	50*	30
Bromoform	**1**	**9.8314**	**10.6753**	**8.2**	**30**
Ethylbenzene	**1**	**12.012**	**12.8218**	**6.5**	**30**
1,1,2,2-Tetrachloroethane	**1**	**13.102**	**15.7026**	**18**	**30**
Styrene	**1**	**11.6681**	**12.1871**	**4.4**	**30**
m&p-Xylenes	**1**	**24.0182**	**25.5288**	**6.1**	**30**
o-Xylene	**1**	**11.4945**	**12.2314**	**6.2**	**30**
trans-1,4-Dichloro-2-butene	1	13.4007	21.6244	47*	30
1,3-Dichlorobenzene	**1**	**11.7402**	**12.18**	**3.7**	**30**
1,4-Dichlorobenzene	**1**	**11.9212**	**12.6737**	**6.1**	**40**
1,2-Dichlorobenzene	**1**	**11.9484**	**12.2744**	**2.7**	**40**
Isopropylbenzene	**1**	**12.6206**	**13.6165**	**7.6**	**30**
Cyclohexanone	1	85.8237	150.6967	55*	30
Camphene	1	13.2282	13.8116	4.3	30
1,2,3-Trichloropropane	1	11.9986	12.9274	7.5	30
2-Chlorotoluene	1	12.3828	12.4722	0.72	30
p-Ethyltoluene	1	13.6762	14.2356	4	30
4-Chlorotoluene	1	13.2394	12.7242	4	30
n-Propylbenzene	1	13.2866	14.2237	6.8	40
Bromobenzene	1	12.5964	13.9765	10	30
1,3,5-Trimethylbenzene	1	12.5858	13.0791	3.8	30
Butyl methacrylate	1	21.6924	48.2212	76*	30
t-Butylbenzene	1	12.4651	13.3969	7.2	30
1,2,4-Trimethylbenzene	1	13.0107	13.6174	4.6	30
sec-Butylbenzene	1	13.5707	14.1814	4.4	40
4-Isopropyltoluene	1	12.5123	12.9319	3.3	30
n-Butylbenzene	1	13.6309	15.1167	10	30
p-Diethylbenzene	1	14.1775	15.8705	11	30
1,2,4,5-Tetramethylbenzene	1	15.4356	18.4044	18	30
1,2-Dibromo-3-Chloropropane	**1**	**10.1772**	**10.4537**	**2.7**	**30**
Camphor	1	117.3525	128.6141	9.2	30
Hexachlorobutadiene	1	12.1501	13.1285	7.7	30
1,2,4-Trichlorobenzene	**1**	**12.7965**	**11.8549**	**7.6**	**30**
1,2,3-Trichlorobenzene	**1**	**12.7054**	**11.2179**	**12**	**30**
Naphthalene	1	13.3401	12.4271	7.1	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98178

Data File	Sample ID:	Analysis Date
Spike or Dup: 1M156353.D	MBS98178	12/9/2021 12:17:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	39.4057	0	50	79	20	130
Dichlorodifluoromethane	1	66.8374	0	50	134*	20	130
Chloromethane	1	28.3068	0	50	57	20	130
Bromomethane	1	48.91	0	50	98	20	130
Vinyl Chloride	1	36.8443	0	50	74	20	130
Chloroethane	1	37.3947	0	50	75	20	130
Trichlorofluoromethane	1	56.4835	0	50	113	20	130
Ethyl ether	1	29.5642	0	50	59	50	130
Furan	1	30.8531	0	50	62	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	51.0073	0	50	102	50	130
Methylene Chloride	1	45.4458	0	50	91	50	130
Acrolein	1	132.7366	0	200	66	20	130
Acrylonitrile	1	24.065	0	50	48	20	130
Iodomethane	1	44.0671	0	50	88	50	130
Acetone	1	164.3349	0	200	82	20	130
Carbon Disulfide	1	42.3426	0	50	85	50	130
t-Butyl Alcohol	1	177.4195	0	200	89	20	130
n-Hexane	1	28.3405	0	50	57	50	130
Di-isopropyl-ether	1	22.6456	0	50	45*	50	130
1,1-Dichloroethene	1	41.6895	0	50	83	50	130
Methyl Acetate	1	24.6281	0	50	49*	50	130
Methyl-t-butyl ether	1	46.7748	0	50	94	50	130
1,1-Dichloroethane	1	34.6998	0	50	69	50	130
trans-1,2-Dichloroethene	1	47.3594	0	50	95	50	130
Ethyl-t-butyl ether	1	32.9982	0	50	66	50	130
cis-1,2-Dichloroethene	1	37.2483	0	50	74	50	130
Bromochloromethane	1	29.343	0	50	59	50	130
2,2-Dichloropropane	1	58.7784	0	50	118	50	130
Ethyl acetate	1	24.3332	0	50	49*	50	130
1,4-Dioxane	1	2663.271	0	2500	107	50	130
1,1-Dichloropropene	1	56.9296	0	50	114	50	130
Chloroform	1	63.0775	0	50	126	50	130
Cyclohexane	1	31.9762	0	50	64	50	130
1,2-Dichloroethane	1	51.609	0	50	103	50	130
2-Butanone	1	25.8282	0	50	52	20	130
1,1,1-Trichloroethane	1	64.1636	0	50	128	50	130
Carbon Tetrachloride	1	62.3934	0	50	125	50	130
Vinyl Acetate	1	27.29	0	50	55	50	130
Bromodichloromethane	1	56.9879	0	50	114	50	130
Methylcyclohexane	1	56.8852	0	50	114	50	130
Dibromomethane	1	56.4682	0	50	113	50	130
1,2-Dichloropropane	1	39.1931	0	50	78	50	130
Trichloroethene	1	53.494	0	50	107	50	130
Benzene	1	52.0835	0	50	104	50	130
tert-Amyl methyl ether	1	56.6263	0	50	113	50	130
Iso-propylacetate	1	33.4394	0	50	67	50	130
Methyl methacrylate	1	34.9993	0	50	70	50	130
Dibromochloromethane	1	51.8482	0	50	104	50	130
2-Chloroethylvinylether	1	35.616	0	50	71	50	130
cis-1,3-Dichloropropene	1	57.6695	0	50	115	50	130
trans-1,3-Dichloropropene	1	58.3321	0	50	117	50	130
Ethyl methacrylate	1	35.9309	0	50	72	50	130
1,1,2-Trichloroethane	1	51.504	0	50	103	50	130
1,2-Dibromoethane	1	49.9713	0	50	100	50	130
1,3-Dichloropropane	1	54.3673	0	50	109	50	130
4-Methyl-2-Pentanone	1	33.3866	0	50	67	20	130
2-Hexanone	1	31.5882	0	50	63	20	130
Tetrachloroethene	1	63.9828	0	50	128	50	130
Toluene	1	57.182	0	50	114	50	130
1,1,1,2-Tetrachloroethane	1	57.276	0	50	115	50	130
Chlorobenzene	1	56.6415	0	50	113	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98178

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	29.3299	0	50	59	50	130
n-Amyl acetate	1	26.9263	0	50	54	50	130
Bromoform	**1**	**52.3876**	**0**	**50**	**105**	**20**	**130**
Ethylbenzene	**1**	**50.6405**	**0**	**50**	**101**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**45.9617**	**0**	**50**	**92**	**50**	**130**
Styrene	**1**	**55.0515**	**0**	**50**	**110**	**50**	**130**
m&p-Xylenes	**1**	**105.1379**	**0**	**100**	**105**	**50**	**130**
o-Xylene	**1**	**52.8744**	**0**	**50**	**106**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	39.1704	0	50	78	20	130
1,3-Dichlorobenzene	**1**	**53.1556**	**0**	**50**	**106**	**50**	**130**
1,4-Dichlorobenzene	**1**	**51.1556**	**0**	**50**	**102**	**50**	**130**
1,2-Dichlorobenzene	**1**	**51.4326**	**0**	**50**	**103**	**50**	**130**
Isopropylbenzene	**1**	**52.4879**	**0**	**50**	**105**	**50**	**130**
Cyclohexanone	1	166.2953	0	250	67	50	130
Camphene	1	57.1621	0	50	114	50	130
1,2,3-Trichloropropane	1	48.9162	0	50	98	50	130
2-Chlorotoluene	1	53.6368	0	50	107	50	130
p-Ethyltoluene	1	54.0325	0	50	108	50	130
4-Chlorotoluene	1	53.0424	0	50	106	50	130
n-Propylbenzene	1	50.7578	0	50	102	50	130
Bromobenzene	1	51.8817	0	50	104	50	130
1,3,5-Trimethylbenzene	1	51.2259	0	50	102	50	130
Butyl methacrylate	1	33.0741	0	50	66	50	130
t-Butylbenzene	1	50.4362	0	50	101	50	130
1,2,4-Trimethylbenzene	1	49.6735	0	50	99	50	130
sec-Butylbenzene	1	51.0353	0	50	102	50	130
4-Isopropyltoluene	1	50.3857	0	50	101	50	130
n-Butylbenzene	1	53.5328	0	50	107	50	130
p-Diethylbenzene	1	50.6601	0	50	101	50	130
1,2,4,5-Tetramethylbenzene	1	55.3734	0	50	111	50	130
1,2-Dibromo-3-Chloropropane	**1**	**49.7539**	**0**	**50**	**100**	**50**	**130**
Camphor	1	523.4901	0	500	105	50	130
Hexachlorobutadiene	1	76.0457	0	50	152*	50	130
1,2,4-Trichlorobenzene	**1**	**61.0282**	**0**	**50**	**122**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**60.6152**	**0**	**50**	**121**	**50**	**130**
Naphthalene	1	49.3531	0	50	99	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98178

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M156351.D	AD27634-001(MS)	12/8/2021 11:37:00 PM
Non Spike(If applicable):	1M156253.D	AD27634-001	12/7/2021 4:47:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	29.4527	0	50	59	20	130
Dichlorodifluoromethane	1	61.2434	0	50	122	20	130
Chloromethane	1	21.7428	0	50	43	20	130
Bromomethane	1	35.504	0	50	71	20	130
Vinyl Chloride	1	26.2252	0	50	52	20	130
Chloroethane	1	28.3479	0	50	57	20	130
Trichlorofluoromethane	1	41.752	0	50	84	20	130
Ethyl ether	1	18.5671	0	50	37*	50	130
Furan	1	19.1294	0	50	38*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	35.489	0	50	71	50	130
Methylene Chloride	1	35.5026	0	50	71	50	130
Acrolein	1	46.6537	0	200	23	20	130
Acrylonitrile	1	15.1204	0	50	30	20	130
Iodomethane	1	26.0313	0	50	52	50	130
Acetone	1	113.6625	0	200	57	20	130
Carbon Disulfide	1	28.4387	0	50	57	50	130
t-Butyl Alcohol	1	112.3731	0	200	56	20	130
n-Hexane	1	18.5975	0	50	37*	50	130
Di-isopropyl-ether	1	16.8862	0	50	34*	50	130
1,1-Dichloroethene	1	31.0726	0	50	62	50	130
Methyl Acetate	1	23.2888	0	50	47*	50	130
Methyl-t-butyl ether	1	36.3193	0	50	73	50	130
1,1-Dichloroethane	1	27.1473	0	50	54	50	130
trans-1,2-Dichloroethene	1	33.5076	0	50	67	50	130
Ethyl-t-butyl ether	1	24.4985	0	50	49*	50	130
cis-1,2-Dichloroethene	1	25.5985	0	50	51	50	130
Bromochloromethane	1	21.0962	0	50	42*	50	130
2,2-Dichloropropane	1	42.9337	0	50	86	50	130
Ethyl acetate	1	9.2	0	50	18*	50	130
1,4-Dioxane	1	1830.446	0	2500	73	50	130
1,1-Dichloropropene	1	42.6595	0	50	85	50	130
Chloroform	1	43.9127	0	50	88	50	130
Cyclohexane	1	21.3171	0	50	43*	50	130
1,2-Dichloroethane	1	38.059	0	50	76	50	130
2-Butanone	1	11.8023	0	50	24	20	130
1,1,1-Trichloroethane	1	46.8559	0	50	94	50	130
Carbon Tetrachloride	1	45.9493	0	50	92	50	130
Vinyl Acetate	1	13.7476	0	50	27*	50	130
Bromodichloromethane	1	44.3448	0	50	89	50	130
Methylcyclohexane	1	33.7615	0	50	68	50	130
Dibromomethane	1	42.7103	0	50	85	50	130
1,2-Dichloropropane	1	30.4941	0	50	61	50	130
Trichloroethene	1	39.3186	0	50	79	50	130
Benzene	1	39.0161	0	50	78	50	130
tert-Amyl methyl ether	1	40.1963	0	50	80	50	130
Iso-propylacetate	1	20.2443	0	50	40*	50	130
Methyl methacrylate	1	31.5147	0	50	63	50	130
Dibromochloromethane	1	42.7381	0	50	85	50	130
2-Chloroethylvinylether	1	94.7861	0	50	190*	50	130
cis-1,3-Dichloropropene	1	42.5903	0	50	85	50	130
trans-1,3-Dichloropropene	1	44.2928	0	50	89	50	130
Ethyl methacrylate	1	19.8089	0	50	40*	50	130
1,1,2-Trichloroethane	1	39.8159	0	50	80	50	130
1,2-Dibromoethane	1	36.3884	0	50	73	50	130
1,3-Dichloropropane	1	41.5791	0	50	83	50	130
4-Methyl-2-Pentanone	1	20.2604	0	50	41	20	130
2-Hexanone	1	19.3054	0	50	39	20	130
Tetrachloroethene	1	44.9618	0	50	90	50	130
Toluene	1	42.1197	0	50	84	50	130
1,1,1,2-Tetrachloroethane	1	39.5726	0	50	79	50	130
Chlorobenzene	1	40.4152	0	50	81	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98178

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	13.8802	0	50	28*	50	130
n-Amyl acetate	1	9.8485	0	50	20*	50	130
Bromoform	**1**	**46.1511**	**0**	**50**	**92**	**20**	**130**
Ethylbenzene	**1**	**40.0206**	**0**	**50**	**80**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**35.2917**	**0**	**50**	**71**	**50**	**130**
Styrene	**1**	**39.8509**	**0**	**50**	**80**	**50**	**130**
m&p-Xylenes	**1**	**81.017**	**0**	**100**	**81**	**50**	**130**
o-Xylene	**1**	**38.0139**	**0**	**50**	**76**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	26.0133	0	50	52	20	130
1,3-Dichlorobenzene	**1**	**36.2313**	**0**	**50**	**72**	**50**	**130**
1,4-Dichlorobenzene	**1**	**35.9571**	**0**	**50**	**72**	**50**	**130**
1,2-Dichlorobenzene	**1**	**34.8871**	**0**	**50**	**70**	**50**	**130**
Isopropylbenzene	**1**	**36.8262**	**0**	**50**	**74**	**50**	**130**
Cyclohexanone	1	186.162	0	250	74	50	130
Camphene	1	30.8451	0	50	62	50	130
1,2,3-Trichloropropane	1	36.2469	0	50	72	50	130
2-Chlorotoluene	1	38.2352	0	50	76	50	130
p-Ethyltoluene	1	36.4846	0	50	73	50	130
4-Chlorotoluene	1	38.2138	0	50	76	50	130
n-Propylbenzene	1	34.7059	0	50	69	50	130
Bromobenzene	1	36.6315	0	50	73	50	130
1,3,5-Trimethylbenzene	1	36.1916	0	50	72	50	130
Butyl methacrylate	1	20.5898	0	50	41*	50	130
t-Butylbenzene	1	33.5425	0	50	67	50	130
1,2,4-Trimethylbenzene	1	35.2261	0	50	70	50	130
sec-Butylbenzene	1	31.5422	0	50	63	50	130
4-Isopropyltoluene	1	31.495	0	50	63	50	130
n-Butylbenzene	1	30.8009	0	50	62	50	130
p-Diethylbenzene	1	30.2917	0	50	61	50	130
1,2,4,5-Tetramethylbenzene	1	29.4982	0	50	59	50	130
1,2-Dibromo-3-Chloropropane	**1**	**31.7931**	**0**	**50**	**64**	**50**	**130**
Camphor	1	353.2611	0	500	71	50	130
Hexachlorobutadiene	1	28.0997	0	50	56	50	130
1,2,4-Trichlorobenzene	**1**	**32.0063**	**0**	**50**	**64**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**29.7059**	**0**	**50**	**59**	**50**	**130**
Naphthalene	1	27.4055	0	50	55	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98178

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M156352.D	AD27634-001(MSD)	12/8/2021 11:57:00 PM
Non Spike(If applicable):	1M156253.D	AD27634-001	12/7/2021 4:47:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	34.7492	0	50	69	20	130
Dichlorodifluoromethane	1	73.845	0	50	148*	20	130
Chloromethane	1	24.9034	0	50	50	20	130
Bromomethane	1	39.051	0	50	78	20	130
Vinyl Chloride	1	31.7548	0	50	64	20	130
Chloroethane	1	32.8841	0	50	66	20	130
Trichlorofluoromethane	1	49.2866	0	50	99	20	130
Ethyl ether	1	21.3187	0	50	43*	50	130
Furan	1	21.3462	0	50	43*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	41.3309	0	50	83	50	130
Methylene Chloride	1	38.8039	0	50	78	50	130
Acrolein	1	56.8571	0	200	28	20	130
Acrylonitrile	1	18.3485	0	50	37	20	130
Iodomethane	1	34.6538	0	50	69	50	130
Acetone	1	143.6628	0	200	72	20	130
Carbon Disulfide	1	34.4614	0	50	69	50	130
t-Butyl Alcohol	1	156.1146	0	200	78	20	130
n-Hexane	1	18.7788	0	50	38*	50	130
Di-isopropyl-ether	1	18.1687	0	50	36*	50	130
1,1-Dichloroethene	1	37.4229	0	50	75	50	130
Methyl Acetate	1	31.8927	0	50	64	50	130
Methyl-t-butyl ether	1	37.9139	0	50	76	50	130
1,1-Dichloroethane	1	28.5848	0	50	57	50	130
trans-1,2-Dichloroethene	1	38.8815	0	50	78	50	130
Ethyl-t-butyl ether	1	25.9362	0	50	52	50	130
cis-1,2-Dichloroethene	1	30.9887	0	50	62	50	130
Bromochloromethane	1	25.6265	0	50	51	50	130
2,2-Dichloropropane	1	52.8429	0	50	106	50	130
Ethyl acetate	1	13.6289	0	50	27*	50	130
1,4-Dioxane	1	2615.022	0	2500	105	50	130
1,1-Dichloropropene	1	48.4733	0	50	97	50	130
Chloroform	1	53.2312	0	50	106	50	130
Cyclohexane	1	25.4784	0	50	51	50	130
1,2-Dichloroethane	1	42.144	0	50	84	50	130
2-Butanone	1	20.8468	0	50	42	20	130
1,1,1-Trichloroethane	1	55.0169	0	50	110	50	130
Carbon Tetrachloride	1	55.0707	0	50	110	50	130
Vinyl Acetate	1	14.4514	0	50	29*	50	130
Bromodichloromethane	1	46.9836	0	50	94	50	130
Methylcyclohexane	1	37.6235	0	50	75	50	130
Dibromomethane	1	46.8404	0	50	94	50	130
1,2-Dichloropropane	1	31.8113	0	50	64	50	130
Trichloroethene	1	42.6211	0	50	85	50	130
Benzene	1	42.8894	0	50	86	50	130
tert-Amyl methyl ether	1	44.1856	0	50	88	50	130
Iso-propylacetate	1	21.8139	0	50	44*	50	130
Methyl methacrylate	1	38.9049	0	50	78	50	130
Dibromochloromethane	1	45.9872	0	50	92	50	130
2-Chloroethylvinylether	1	95.0058	0	50	190*	50	130
cis-1,3-Dichloropropene	1	44.4796	0	50	89	50	130
trans-1,3-Dichloropropene	1	46.0745	0	50	92	50	130
Ethyl methacrylate	1	22.1401	0	50	44*	50	130
1,1,2-Trichloroethane	1	43.1023	0	50	86	50	130
1,2-Dibromoethane	1	41.2745	0	50	83	50	130
1,3-Dichloropropane	1	44.2221	0	50	88	50	130
4-Methyl-2-Pentanone	1	25.9447	0	50	52	20	130
2-Hexanone	1	25.8438	0	50	52	20	130
Tetrachloroethene	1	49.7052	0	50	99	50	130
Toluene	1	45.7256	0	50	91	50	130
1,1,1,2-Tetrachloroethane	1	43.2321	0	50	86	50	130
Chlorobenzene	1	42.7215	0	50	85	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98178

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MSD		

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	14.5366	0	50	29*	50	130
n-Amyl acetate	1	10.6901	0	50	21*	50	130
Bromoform	**1**	**47.0228**	**0**	**50**	**94**	**20**	**130**
Ethylbenzene	**1**	**42.3008**	**0**	**50**	**85**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**39.7106**	**0**	**50**	**79**	**50**	**130**
Styrene	**1**	**41.8118**	**0**	**50**	**84**	**50**	**130**
m&p-Xylenes	**1**	**81.7894**	**0**	**100**	**82**	**50**	**130**
o-Xylene	**1**	**39.7073**	**0**	**50**	**79**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	29.2952	0	50	59	20	130
1,3-Dichlorobenzene	**1**	**35.3068**	**0**	**50**	**71**	**50**	**130**
1,4-Dichlorobenzene	**1**	**33.9043**	**0**	**50**	**68**	**50**	**130**
1,2-Dichlorobenzene	**1**	**32.7268**	**0**	**50**	**65**	**50**	**130**
Isopropylbenzene	**1**	**37.5822**	**0**	**50**	**75**	**50**	**130**
Cyclohexanone	1	211.9084	0	250	85	50	130
Camphene	1	32.1032	0	50	64	50	130
1,2,3-Trichloropropane	1	39.9953	0	50	80	50	130
2-Chlorotoluene	1	37.7162	0	50	75	50	130
p-Ethyltoluene	1	35.7583	0	50	72	50	130
4-Chlorotoluene	1	36.5143	0	50	73	50	130
n-Propylbenzene	1	35.2205	0	50	70	50	130
Bromobenzene	1	33.958	0	50	68	50	130
1,3,5-Trimethylbenzene	1	35.7417	0	50	71	50	130
Butyl methacrylate	1	20.5999	0	50	41*	50	130
t-Butylbenzene	1	33.2567	0	50	67	50	130
1,2,4-Trimethylbenzene	1	34.5202	0	50	69	50	130
sec-Butylbenzene	1	31.0172	0	50	62	50	130
4-Isopropyltoluene	1	30.2129	0	50	60	50	130
n-Butylbenzene	1	29.1713	0	50	58	50	130
p-Diethylbenzene	1	29.4156	0	50	59	50	130
1,2,4,5-Tetramethylbenzene	1	25.8696	0	50	52	50	130
1,2-Dibromo-3-Chloropropane	**1**	**39.694**	**0**	**50**	**79**	**50**	**130**
Camphor	1	456.7014	0	500	91	50	130
Hexachlorobutadiene	1	28.3536	0	50	57	50	130
1,2,4-Trichlorobenzene	**1**	**27.8909**	**0**	**50**	**56**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**25.9768**	**0**	**50**	**52**	**50**	**130**
Naphthalene	1	28.8816	0	50	58	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98178

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M156352.D	AD27634-001(MSD)	12/8/2021 11:57:00 PM
Duplicate(If applicable):	1M156351.D	AD27634-001(MS)	12/8/2021 11:37:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	34.7492	29.4527	16	30
Dichlorodifluoromethane	**1**	**73.845**	**61.2434**	**19**	**30**
Chloromethane	**1**	**24.9034**	**21.7428**	**14**	**30**
Bromomethane	**1**	**39.051**	**35.504**	**9.5**	**30**
Vinyl Chloride	**1**	**31.7548**	**26.2252**	**19**	**40**
Chloroethane	**1**	**32.8841**	**28.3479**	**15**	**30**
Trichlorofluoromethane	**1**	**49.2866**	**41.752**	**17**	**30**
Ethyl ether	1	21.3187	18.5671	14	30
Furan	1	21.3462	19.1294	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**41.3309**	**35.489**	**15**	**30**
Methylene Chloride	**1**	**38.8039**	**35.5026**	**8.9**	**30**
Acrolein	**1**	**56.8571**	**46.6537**	**20**	**30**
Acrylonitrile	**1**	**18.3485**	**15.1204**	**19**	**30**
Iodomethane	1	34.6538	26.0313	28	30
Acetone	**1**	**143.6628**	**113.6625**	**23**	**30**
Carbon Disulfide	**1**	**34.4614**	**28.4387**	**19**	**30**
t-Butyl Alcohol	**1**	**156.1146**	**112.3731**	**33***	**30**
n-Hexane	1	18.7788	18.5975	0.97	30
Di-isopropyl-ether	1	18.1687	16.8862	7.3	30
1,1-Dichloroethene	**1**	**37.4229**	**31.0726**	**19**	**40**
Methyl Acetate	**1**	**31.8927**	**23.2888**	**31***	**30**
Methyl-t-butyl ether	**1**	**37.9139**	**36.3193**	**4.3**	**30**
1,1-Dichloroethane	**1**	**28.5848**	**27.1473**	**5.2**	**40**
trans-1,2-Dichloroethene	**1**	**38.8815**	**33.5076**	**15**	**30**
Ethyl-t-butyl ether	1	25.9362	24.4985	5.7	30
cis-1,2-Dichloroethene	**1**	**30.9887**	**25.5985**	**19**	**30**
Bromochloromethane	**1**	**25.6265**	**21.0962**	**19**	**30**
2,2-Dichloropropane	1	52.8429	42.9337	21	30
Ethyl acetate	1	13.6289	9.2	39*	30
1,4-Dioxane	**1**	**2615.022**	**1830.446**	**35***	**30**
1,1-Dichloropropene	1	48.4733	42.6595	13	30
Chloroform	**1**	**53.2312**	**43.9127**	**19**	**40**
Cyclohexane	**1**	**25.4784**	**21.3171**	**18**	**30**
1,2-Dichloroethane	**1**	**42.144**	**38.059**	**10**	**40**
2-Butanone	**1**	**20.8468**	**11.8023**	**55***	**40**
1,1,1-Trichloroethane	**1**	**55.0169**	**46.8559**	**16**	**30**
Carbon Tetrachloride	**1**	**55.0707**	**45.9493**	**18**	**40**
Vinyl Acetate	1	14.4514	13.7476	5	30
Bromodichloromethane	**1**	**46.9836**	**44.3448**	**5.8**	**30**
Methylcyclohexane	**1**	**37.6235**	**33.7615**	**11**	**30**
Dibromomethane	1	46.8404	42.7103	9.2	30
1,2-Dichloropropane	**1**	**31.8113**	**30.4941**	**4.2**	**30**
Trichloroethene	**1**	**42.6211**	**39.3186**	**8.1**	**40**
Benzene	**1**	**42.8894**	**39.0161**	**9.5**	**40**
tert-Amyl methyl ether	1	44.1856	40.1963	9.5	30
Iso-propylacetate	1	21.8139	20.2443	7.5	30
Methyl methacrylate	1	38.9049	31.5147	21	30
Dibromochloromethane	**1**	**45.9872**	**42.7381**	**7.3**	**30**
2-Chloroethylvinylether	1	95.0058	94.7861	0.23	30
cis-1,3-Dichloropropene	**1**	**44.4796**	**42.5903**	**4.3**	**30**
trans-1,3-Dichloropropene	**1**	**46.0745**	**44.2928**	**3.9**	**30**
Ethyl methacrylate	1	22.1401	19.8089	11	30
1,1,2-Trichloroethane	**1**	**43.1023**	**39.8159**	**7.9**	**30**
1,2-Dibromoethane	**1**	**41.2745**	**36.3884**	**13**	**30**
1,3-Dichloropropane	1	44.2221	41.5791	6.2	30
4-Methyl-2-Pentanone	**1**	**25.9447**	**20.2604**	**25**	**30**
2-Hexanone	**1**	**25.8438**	**19.3054**	**29**	**30**
Tetrachloroethene	**1**	**49.7052**	**44.9618**	**10**	**40**
Toluene	**1**	**45.7256**	**42.1197**	**8.2**	**40**
1,1,1,2-Tetrachloroethane	1	43.2321	39.5726	8.8	30
Chlorobenzene	**1**	**42.7215**	**40.4152**	**5.5**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98178

Method: 8260D	Matrix: Soil	Units: mg/Kg	QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	14.5366	13.8802	4.6	30
n-Amyl acetate	1	10.6901	9.8485	8.2	30
Bromoform	**1**	**47.0228**	**46.1511**	**1.9**	**30**
Ethylbenzene	**1**	**42.3008**	**40.0206**	**5.5**	**30**
1,1,2,2-Tetrachloroethane	**1**	**39.7106**	**35.2917**	**12**	**30**
Styrene	**1**	**41.8118**	**39.8509**	**4.8**	**30**
m&p-Xylenes	**1**	**81.7894**	**81.017**	**0.95**	**30**
o-Xylene	**1**	**39.7073**	**38.0139**	**4.4**	**30**
trans-1,4-Dichloro-2-butene	1	29.2952	26.0133	12	30
1,3-Dichlorobenzene	**1**	**35.3068**	**36.2313**	**2.6**	**30**
1,4-Dichlorobenzene	**1**	**33.9043**	**35.9571**	**5.9**	**40**
1,2-Dichlorobenzene	**1**	**32.7268**	**34.8871**	**6.4**	**40**
Isopropylbenzene	**1**	**37.5822**	**36.8262**	**2**	**30**
Cyclohexanone	1	211.9084	186.162	13	30
Camphene	1	32.1032	30.8451	4	30
1,2,3-Trichloropropane	1	39.9953	36.2469	9.8	30
2-Chlorotoluene	1	37.7162	38.2352	1.4	30
p-Ethyltoluene	1	35.7583	36.4846	2	30
4-Chlorotoluene	1	36.5143	38.2138	4.5	30
n-Propylbenzene	1	35.2205	34.7059	1.5	40
Bromobenzene	1	33.958	36.6315	7.6	30
1,3,5-Trimethylbenzene	1	35.7417	36.1916	1.3	30
Butyl methacrylate	1	20.5999	20.5898	0.05	30
t-Butylbenzene	1	33.2567	33.5425	0.86	30
1,2,4-Trimethylbenzene	1	34.5202	35.2261	2	30
sec-Butylbenzene	1	31.0172	31.5422	1.7	40
4-Isopropyltoluene	1	30.2129	31.495	4.2	30
n-Butylbenzene	1	29.1713	30.8009	5.4	30
p-Diethylbenzene	1	29.4156	30.2917	2.9	30
1,2,4,5-Tetramethylbenzene	1	25.8696	29.4982	13	30
1,2-Dibromo-3-Chloropropane	**1**	**39.694**	**31.7931**	**22**	**30**
Camphor	1	456.7014	353.2611	26	30
Hexachlorobutadiene	1	28.3536	28.0997	0.9	30
1,2,4-Trichlorobenzene	**1**	**27.8909**	**32.0063**	**14**	**30**
1,2,3-Trichlorobenzene	**1**	**25.9768**	**29.7059**	**13**	**30**
Naphthalene	1	28.8816	27.4055	5.2	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M156242.D
Matrix: Soil

Blank Analysis Date: 12/07/21 01:06
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
MBS98158	1M156248.D	12/07/21 03:07
AD27634-001	1M156253.D	12/07/21 04:47

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M156349.D
Matrix: Soil

Blank Analysis Date: 12/08/21 22:57
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD27774-001	1M156369.D	12/09/21 05:39
AD27774-002	1M156370.D	12/09/21 05:59
MBS98178	1M156353.D	12/09/21 00:17
AD27634-001(MSD	1M156352.D	12/08/21 23:57
AD27634-001(MS)	1M156351.D	12/08/21 23:37

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M160938.D
Matrix: Methanol

Blank Analysis Date: 12/09/21 00:41
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD27774-003(80uL	2M160959.D	12/09/21 07:33
AD27673-006	2M160962.D	12/09/21 08:31
AD27673-006(MSD	2M160961.D	12/09/21 08:12
AD27673-006(MS)	2M160960.D	12/09/21 07:52
MBS98174	2M160949.D	12/09/21 04:17

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M160573.D
Analysis Date: 12/02/21 14:36
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.348 to 7.373 min

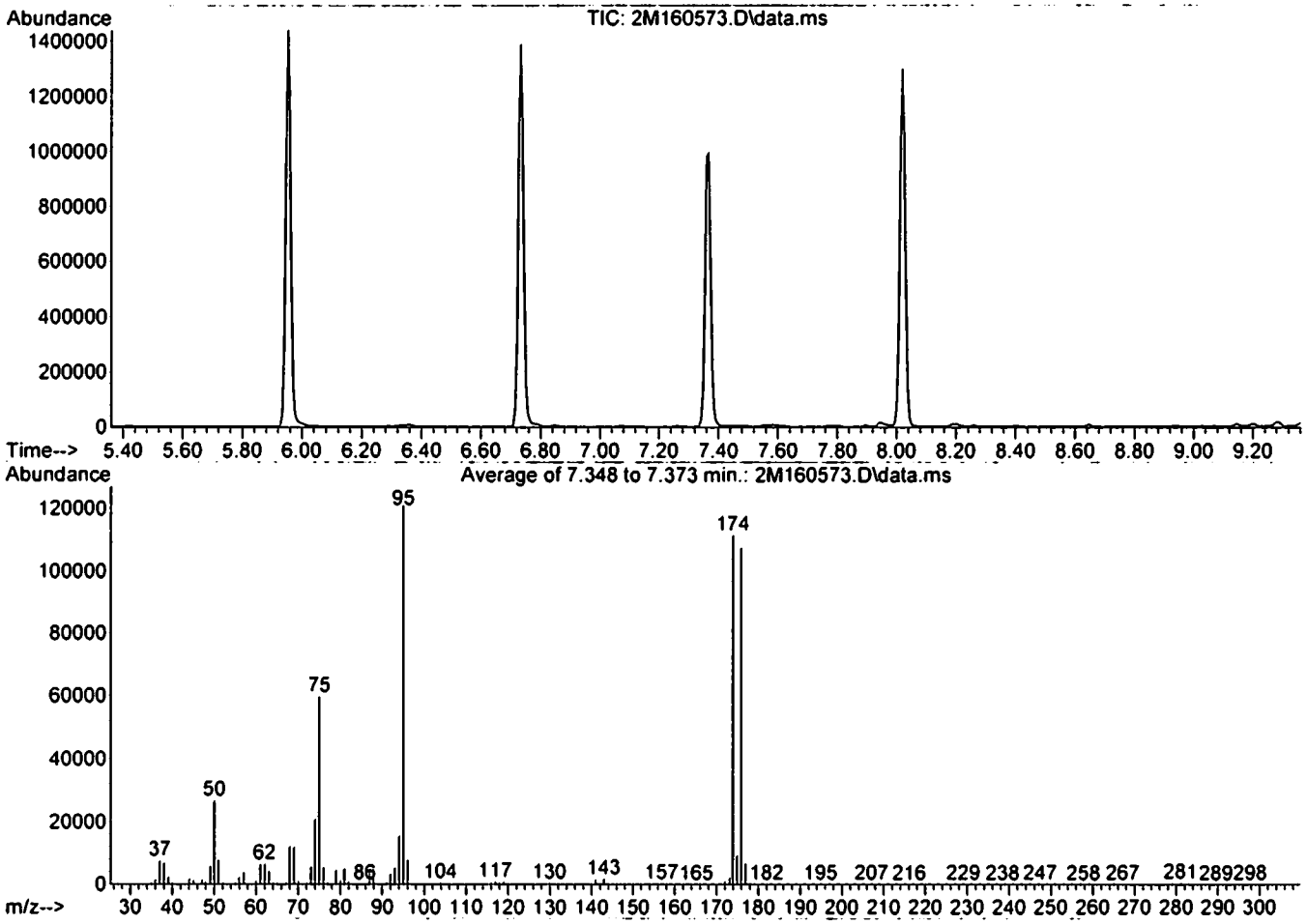
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.1	26737	PASS
75	95	30	60	49.4	59752	PASS
95	95	100	100	100.0	121016	PASS
96	95	5	9	6.4	7742	PASS
173	174	0.00	2	1.9	2164	PASS
174	95	50	100	92.1	111482	PASS
175	174	5	9	8.3	9302	PASS
176	174	95	101	96.4	107524	PASS
177	176	5	9	6.2	6707	PASS

Data File	Sample Number	Analysis Date:
2M160574.D	CAL @ 0.5 PPB	12/02/21 14:56
2M160575.D	CAL @ 1 PPB	12/02/21 15:15
2M160576.D	CAL @ 20 PPB	12/02/21 15:35
2M160580.D	CAL @ 5 PPB	12/02/21 16:54
2M160582.D	CAL @ 10 PPB	12/02/21 17:33
2M160584.D	CAL @ 50 PPB	12/02/21 18:12
2M160587.D	CAL @ 100 PPB	12/02/21 19:11
2M160590.D	CAL @ 250 PPB	12/02/21 20:10
2M160593.D	CAL @ 500 PPB	12/02/21 21:09
2M160598.D	ICV	12/02/21 22:47
2M160599.D	STD	12/02/21 23:06
2M160600.D	BLK	12/02/21 23:26
2M160601.D	DAILY BLANK	12/02/21 23:45
2M160602.D	AD27482-005(50X)	12/03/21 00:05
2M160603.D	AD27482-004(50X)	12/03/21 00:25
2M160604.D	MBS98165	12/03/21 00:44
2M160605.D	AD27565-017(50X)	12/03/21 01:04
2M160606.D	AD27565-017(50X)	12/03/21 01:24
2M160607.D	AD27565-017(50X)	12/03/21 01:43
2M160608.D	AD27565-019(50X)	12/03/21 02:03
2M160609.D	AD27575-001(50X)	12/03/21 02:23
2M160610.D	EF-1-V-362558(120	12/03/21 02:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\12-02-21\
Data File : 2M160573.D
Acq On : 02 Dec 2021 14:36
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A1202.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Dec 02 21:41:48 2021



Spectrum Information: Average of 7.348 to 7.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	26737	PASS
75	95	30	60	49.4	59752	PASS
95	95	100	100	100.0	121016	PASS
96	95	5	9	6.4	7742	PASS
173	174	0.00	2	1.9	2164	PASS
174	95	50	100	92.1	111482	PASS
175	174	5	9	8.3	9302	PASS
176	174	95	101	96.4	107524	PASS
177	176	5	9	6.2	6707	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M156215.D
Analysis Date: 12/06/21 16:18
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.578 to 7.591 min

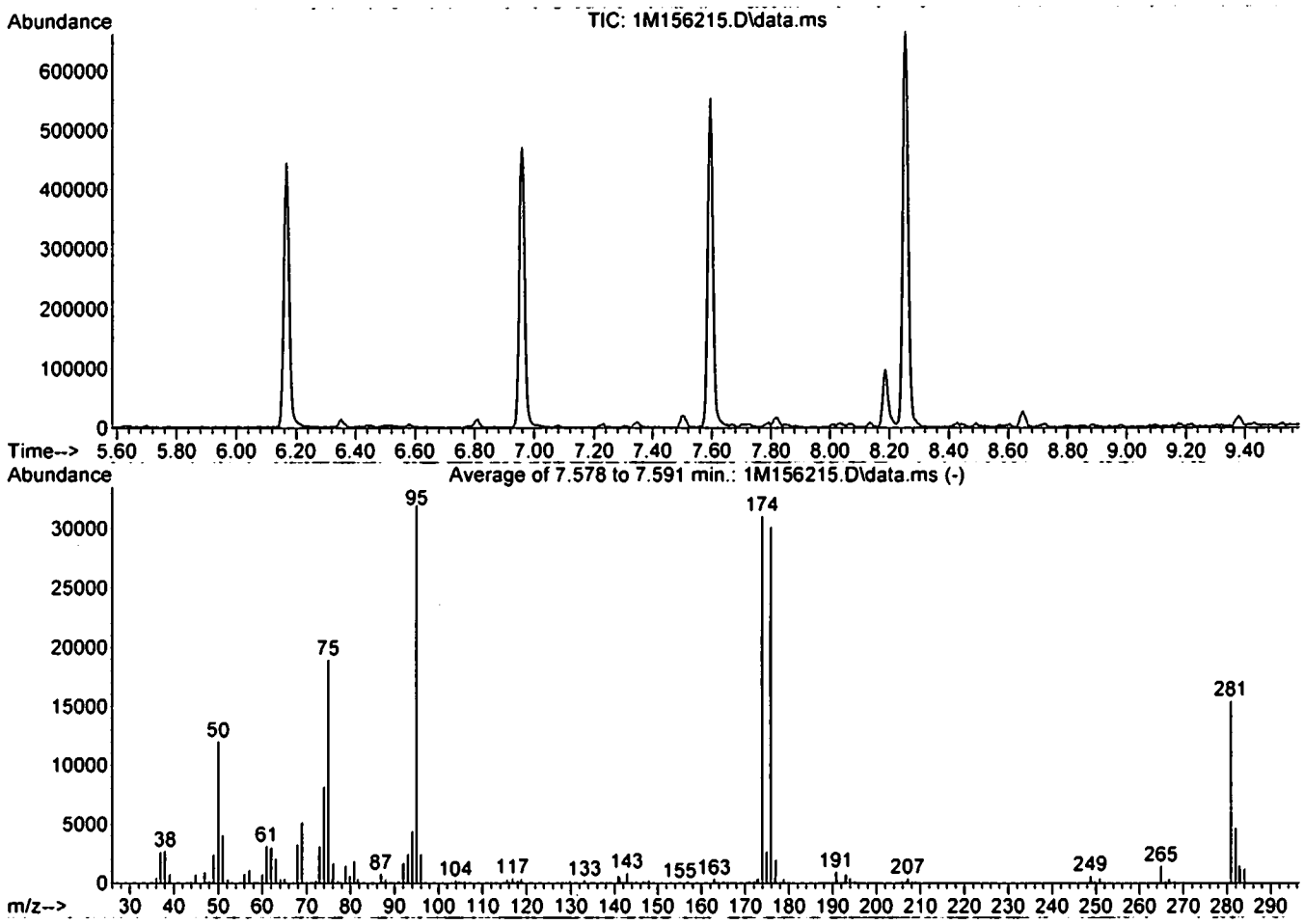
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	37.6	12032	PASS
75	95	30	60	59.3	18976	PASS
95	95	100	100	100.0	32006	PASS
96	95	5	9	7.7	2470	PASS
173	174	0.00	2	1.3	396	PASS
174	95	50	100	97.1	31068	PASS
175	174	5	9	8.7	2702	PASS
176	174	95	101	97.1	30171	PASS
177	176	5	9	6.7	2011	PASS

Data File	Sample Number	Analysis Date:
1M156216.D	CAL @ 0.5 PPB	12/06/21 16:38
1M156217.D	CAL @ 1 PPB	12/06/21 16:58
1M156218.D	CAL @ 2 PPB	12/06/21 17:18
1M156219.D	CAL @ 5 PPB	12/06/21 17:38
1M156220.D	CAL @ 20 PPB	12/06/21 17:59
1M156221.D	CAL @ 50 PPB	12/06/21 18:19
1M156222.D	CAL @ 500 PPB	12/06/21 18:39
1M156224.D	CAL @ 250 PPB	12/06/21 19:19
1M156226.D	CAL @ 100 PPB	12/06/21 19:59
1M156231.D	ICV	12/06/21 21:40
1M156232.D	BLK	12/06/21 22:00
1M156233.D	STD	12/06/21 22:20

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-06-21\
Data File : 1M156215.D
Acq On : 06 Dec 2021 16:18
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 33 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_S1203.M
Title : @GCMS_1,ug,624,8260
Last Update : Fri Dec 03 10:16:39 2021



Spectrum Information: Average of 7.578 to 7.591 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	37.6	12032	PASS
75	95	30	60	59.3	18976	PASS
95	95	100	100	100.0	32006	PASS
96	95	5	9	7.7	2470	PASS
173	174	0.00	2	1.3	396	PASS
174	95	50	100	97.1	31068	PASS
175	174	5	9	8.7	2702	PASS
176	174	95	101	97.1	30171	PASS
177	176	5	9	6.7	2011	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS I
Data File: 1M156284.D
Analysis Date: 12/07/21 14:48
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.572 to 7.620 min

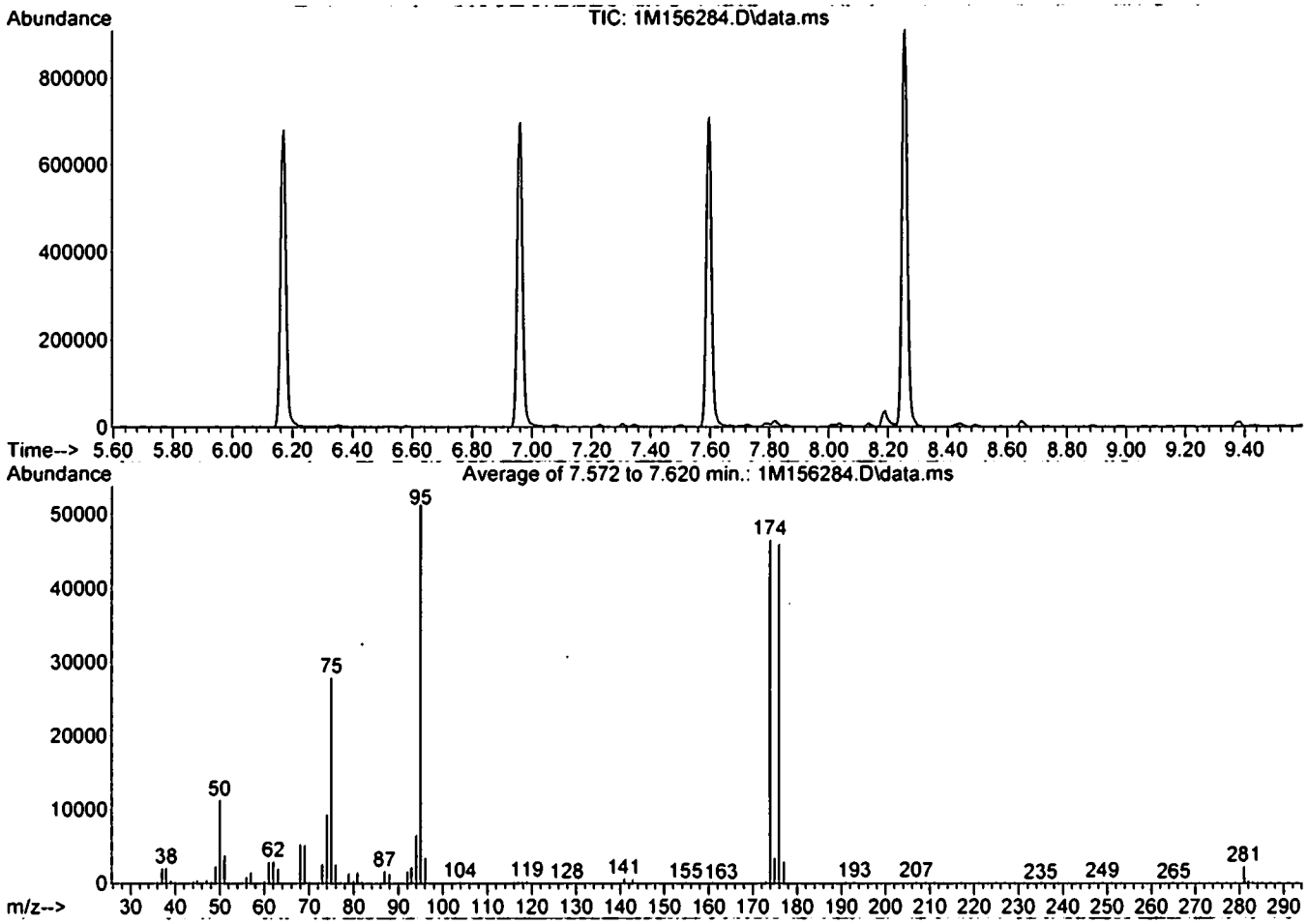
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.0	11302	PASS
75	95	30	60	54.5	27940	PASS
95	95	100	100	100.0	51266	PASS
96	95	5	9	6.8	3507	PASS
173	174	0.00	2	0.7	312	PASS
174	95	50	100	90.7	46489	PASS
175	174	5	9	7.5	3483	PASS
176	174	95	101	98.8	45923	PASS
177	176	5	9	6.5	3008	PASS

Data File	Sample Number	Analysis Date:
1M156285.D	CAL @ 0.5 PPB	12/07/21 15:08
1M156286.D	CAL @ 1 PPB	12/07/21 15:28
1M156287.D	CAL @ 2 PPB	12/07/21 15:48
1M156288.D	CAL @ 5 PPB	12/07/21 16:08
1M156289.D	CAL @ 20 PPB	12/07/21 16:28
1M156290.D	CAL @ 50 PPB	12/07/21 16:48
1M156291.D	CAL @ 100 PPB	12/07/21 17:08
1M156292.D	CAL @ 250 PPB	12/07/21 17:28
1M156293.D	CAL @ 500 PPB	12/07/21 17:49
1M156298.D	STD	12/07/21 20:09
1M156299.D	ICV	12/07/21 20:29
1M156302.D	STD	12/07/21 21:23
1M156304.D	BLK	12/07/21 22:03
1M156305.D	BLK	12/07/21 22:23
1M156311.D	BLK	12/08/21 00:25

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-07-21\
Data File : 1M156284.D
Acq On : 07 Dec 2021 14:48
Operator : JM
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_8\MethodQt\8M_S1206.M
Title : @GCMS_8,ug,624,8260
Last Update : Tue Dec 07 00:08:47 2021



Spectrum Information: Average of 7.572 to 7.620 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	11302	PASS
75	95	30	60	54.5	27940	PASS
95	95	100	100	100.0	51266	PASS
96	95	5	9	6.8	3507	PASS
173	174	0.00	2	0.7	312	PASS
174	95	50	100	90.7	46489	PASS
175	174	5	9	7.5	3483	PASS
176	174	95	101	98.8	45923	PASS
177	176	5	9	6.5	3008	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M156234.D
Analysis Date: 12/06/21 22:40
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.595 to 7.601 min

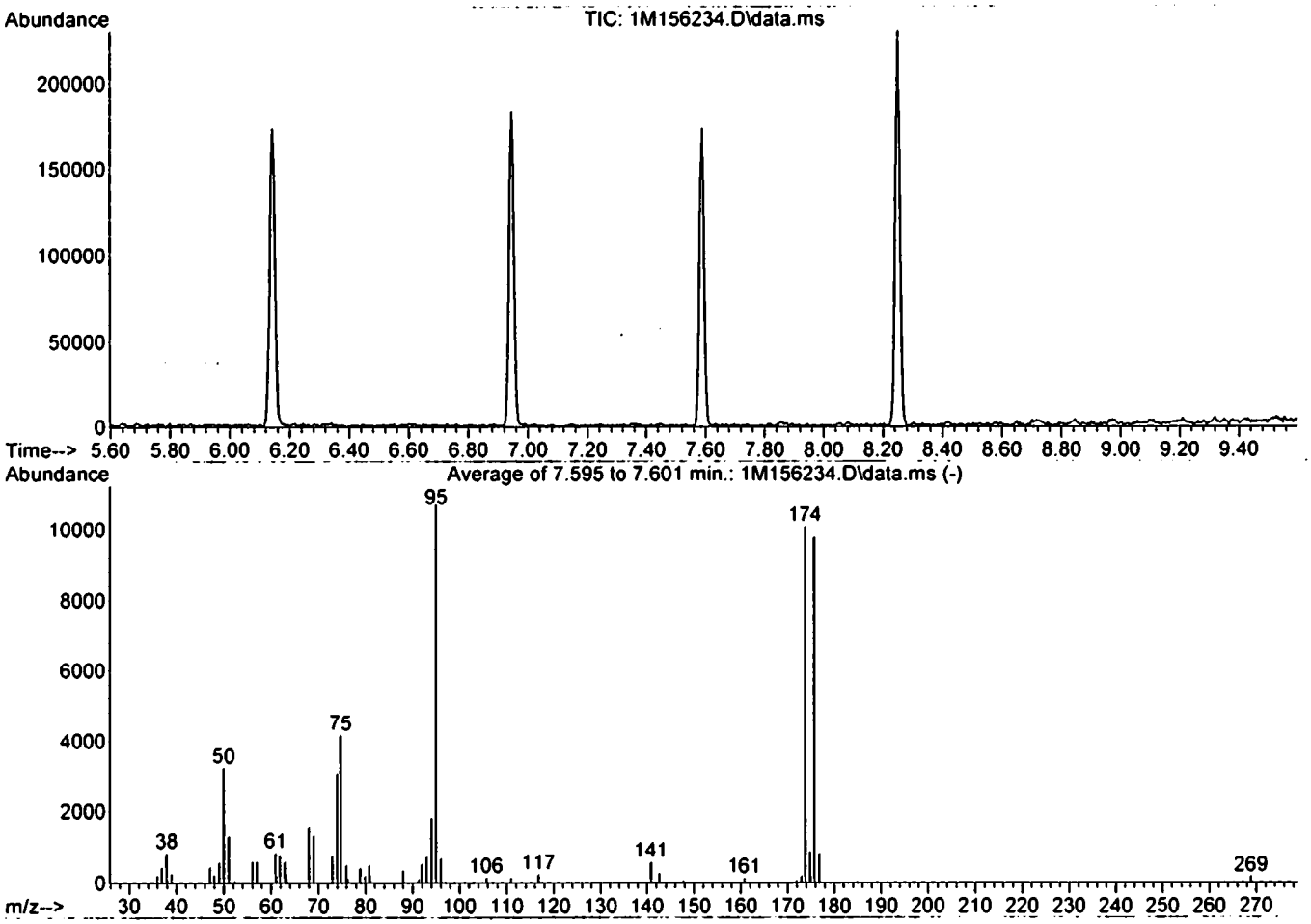
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	30.3	3248	PASS
75	95	30	60	39.1	4189	PASS
95	95	100	100	100.0	10712	PASS
96	95	5	9	6.4	689	PASS
173	174	0.00	2	1.9	190	PASS
174	95	50	100	94.2	10091	PASS
175	174	5	9	8.7	874	PASS
176	174	95	101	97.1	9800	PASS
177	176	5	9	8.5	833	PASS

Data File	Sample Number	Analysis Date:
1M156236.D	CAL @ 50 PPB	12/06/21 23:15
1M156238.D	std	12/06/21 23:45
1M156242.D	DAILY BLANK	12/07/21 01:06
1M156243.D	AD27639-005	12/07/21 01:26
1M156244.D	AD27622-003	12/07/21 01:46
1M156245.D	AD27622-005	12/07/21 02:06
1M156246.D	AD27639-005(MS)	12/07/21 02:26
1M156247.D	AD27639-005(MSD	12/07/21 02:47
1M156248.D	MBS98158	12/07/21 03:07
1M156249.D	BLK	12/07/21 03:27
1M156250.D	AD27633-001	12/07/21 03:47
1M156251.D	AD27633-005	12/07/21 04:07
1M156252.D	AD27633-003	12/07/21 04:27
1M156253.D	AD27634-001	12/07/21 04:47
1M156254.D	AD27634-005	12/07/21 05:08
1M156255.D	AD27634-003	12/07/21 05:28
1M156256.D	AD27635-001	12/07/21 05:48
1M156257.D	AD27635-005	12/07/21 06:08
1M156258.D	AD27635-003	12/07/21 06:28
1M156259.D	AD27636-001	12/07/21 06:48
1M156260.D	AD27636-005	12/07/21 07:08
1M156261.D	AD27636-003	12/07/21 07:28
1M156262.D	AD27639-003	12/07/21 07:49
1M156263.D	AD27657-013	12/07/21 08:09
1M156264.D	AD27657-014	12/07/21 08:29

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-0621\
Data File : 1M156234.D
Acq On : 06 Dec 2021 22:40
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_S1206.M
Title : @GCMS_1,ug,624,8260
Last Update : Mon Dec 06 21:24:13 2021



Spectrum Information: Average of 7.595 to 7.601 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	30.3	3248	PASS
75	95	30	60	39.1	4189	PASS
95	95	100	100	100.0	10712	PASS
96	95	5	9	6.4	689	PASS
173	174	0.00	2	1.9	190	PASS
174	95	50	100	94.2	10091	PASS
175	174	5	9	8.7	874	PASS
176	174	95	101	97.1	9800	PASS
177	176	5	9	8.5	833	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS I
Data File: 1M156342.D
Analysis Date: 12/08/21 20:43
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.566 to 7.620 min

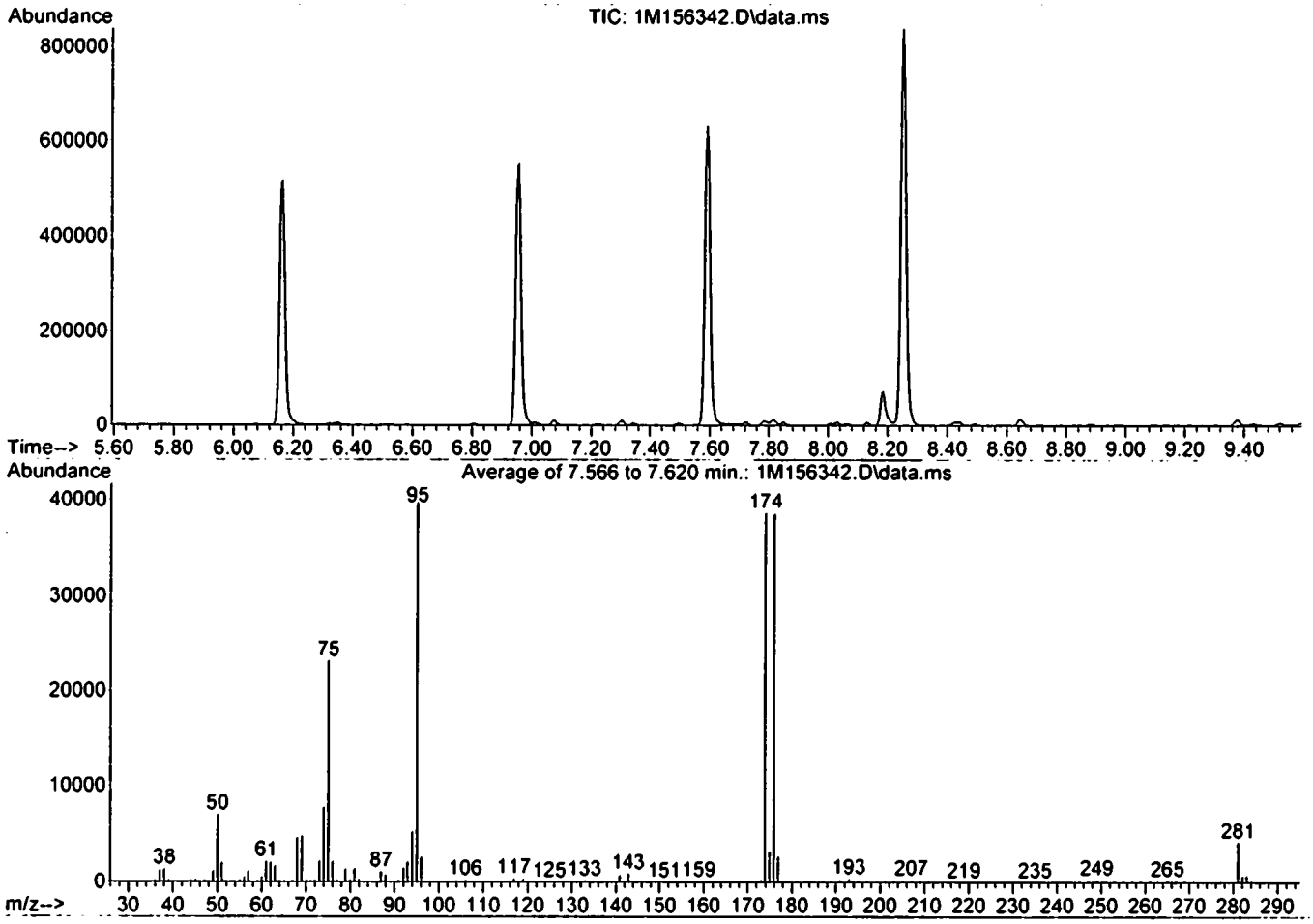
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.6	6985	PASS
75	95	30	60	58.5	23242	PASS
95	95	100	100	100.0	39744	PASS
96	95	5	9	6.6	2631	PASS
173	174	0.00	2	0.8	291	PASS
174	95	50	100	97.3	38690	PASS
175	174	5	9	8.3	3197	PASS
176	174	95	101	99.8	38631	PASS
177	176	5	9	6.9	2650	PASS

Data File	Sample Number	Analysis Date:
1M156343.D	50 PPB	12/08/21 21:03
1M156344.D	CAL @ 50 PPB	12/08/21 21:23
1M156346.D	BLK	12/08/21 21:56
1M156347.D	BLK	12/08/21 22:16
1M156348.D	BLK	12/08/21 22:36
1M156349.D	DAILY BLANK	12/08/21 22:57
1M156350.D	AD27654-002	12/08/21 23:17
1M156351.D	AD27634-001(MS)	12/08/21 23:37
1M156352.D	AD27634-001(MSD	12/08/21 23:57
1M156353.D	MBS98178	12/09/21 00:17
1M156354.D	BLK	12/09/21 00:37
1M156355.D	BLK	12/09/21 00:57
1M156356.D	BLK	12/09/21 01:17
1M156357.D	AD27553-002	12/09/21 01:37
1M156358.D	AD27733-007	12/09/21 01:57
1M156359.D	AD27785-001	12/09/21 02:18
1M156360.D	AD27785-002	12/09/21 02:38
1M156361.D	AD27673-010	12/09/21 02:58
1M156362.D	AD27673-009	12/09/21 03:18
1M156363.D	AD27673-008	12/09/21 03:38
1M156364.D	AD27673-007	12/09/21 03:58
1M156365.D	AD27673-006	12/09/21 04:18
1M156366.D	BLK	12/09/21 04:38
1M156367.D	AD27680-001	12/09/21 04:59
1M156368.D	AD27680-003	12/09/21 05:19
1M156369.D	AD27774-001	12/09/21 05:39
1M156370.D	AD27774-002	12/09/21 05:59
1M156371.D	AD27728-001	12/09/21 06:19
1M156372.D	AD27728-005	12/09/21 06:39
1M156373.D	AD27728-009	12/09/21 06:59
1M156374.D	AD27728-013	12/09/21 07:20
1M156375.D	AD27614-014	12/09/21 07:40
1M156376.D	AD27614-016	12/09/21 08:00
1M156377.D	AD27614-011	12/09/21 08:20
1M156378.D	AD27614-015	12/09/21 08:40
1M156379.D	BLK	12/09/21 09:00

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-08-21\
Data File : 1M156342.D
Acq On : 08 Dec 2021 20:43
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_8\MethodQt\8M_S1206.M
Title : @GCMS_8,ug,624,8260
Last Update : Tue Dec 07 00:08:47 2021



Spectrum Information: Average of 7.566 to 7.620 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	6985	PASS
75	95	30	60	58.5	23242	PASS
95	95	100	100	100.0	39744	PASS
96	95	5	9	6.6	2631	PASS
173	174	0.00	2	0.8	291	PASS
174	95	50	100	97.3	38690	PASS
175	174	5	9	8.3	3197	PASS
176	174	95	101	99.8	38631	PASS
177	176	5	9	6.9	2650	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M160932.D
Analysis Date: 12/08/21 22:47
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.360 to 7.366 min

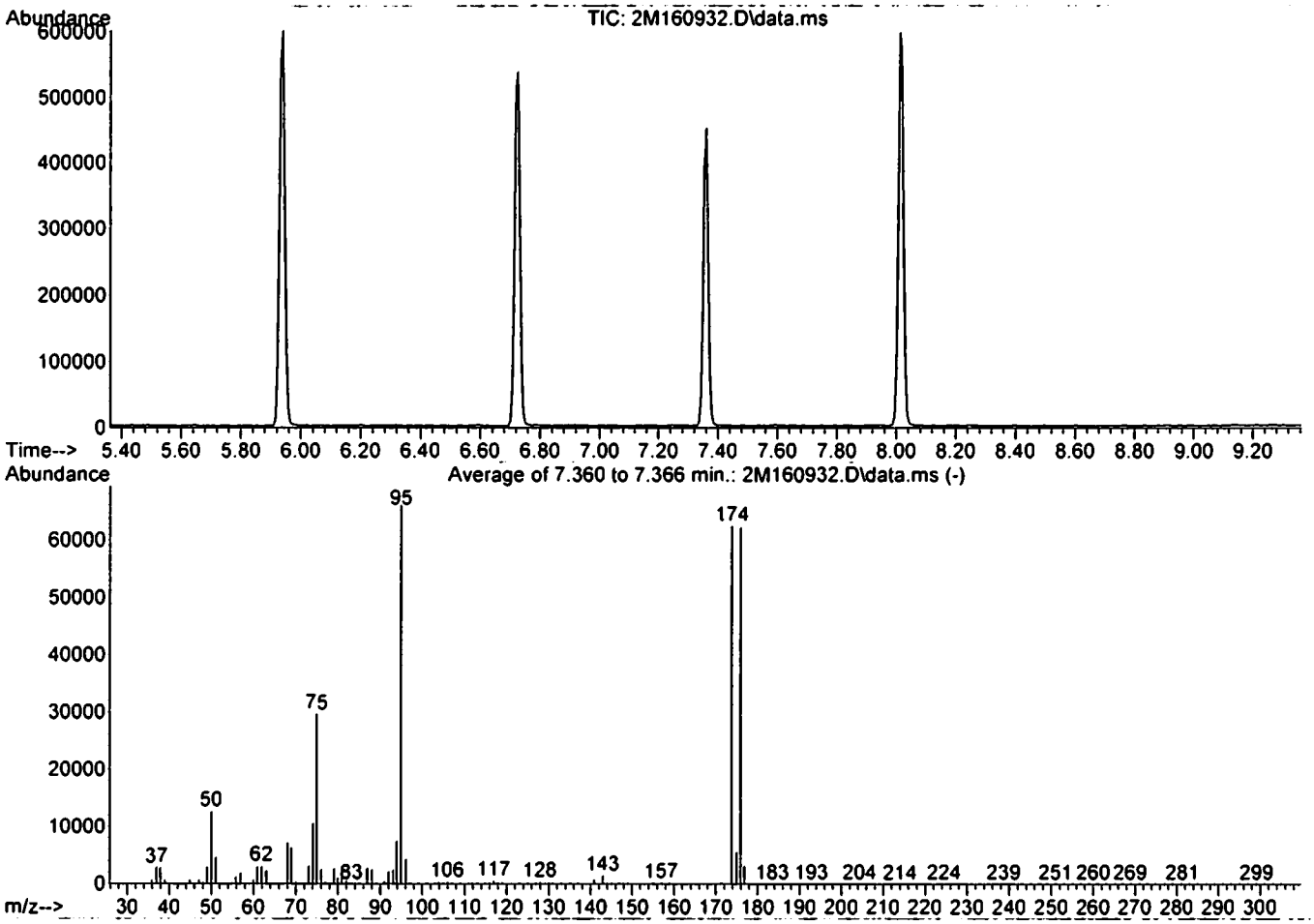
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.2	12680	PASS
75	95	30	60	44.9	29708	PASS
95	95	100	100	100.0	66110	PASS
96	95	5	9	6.6	4367	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	94.5	62490	PASS
175	174	5	9	8.9	5588	PASS
176	174	95	101	99.6	62244	PASS
177	176	5	9	5.1	3167	PASS

Data File	Sample Number	Analysis Date:
2M160933.D	CAL @ 20 PPB	12/08/21 23:04
2M160934.D	20 PPB	12/08/21 23:23
2M160935.D	BLK	12/08/21 23:43
2M160936.D	BLK	12/09/21 00:02
2M160937.D	DAILY BLANK	12/09/21 00:22
2M160938.D	DAILY BLANK	12/09/21 00:41
2M160939.D	AD27767-001	12/09/21 01:01
2M160940.D	AD27627-005	12/09/21 01:21
2M160941.D	AD27706-001	12/09/21 01:40
2M160942.D	AD27673-013	12/09/21 02:00
2M160943.D	AD27673-011(10X)	12/09/21 02:19
2M160944.D	AD27707-001(10X)	12/09/21 02:39
2M160945.D	AD27742-002(500X	12/09/21 02:59
2M160946.D	AD27763-003(MS)	12/09/21 03:18
2M160947.D	AD27763-003(MSD	12/09/21 03:37
2M160948.D	MBS98173	12/09/21 03:57
2M160949.D	MBS98174	12/09/21 04:17
2M160950.D	EF-1-V-362998(120	12/09/21 04:36
2M160951.D	BLK	12/09/21 04:56
2M160952.D	AD27748-001	12/09/21 05:16
2M160953.D	AD27769-001	12/09/21 05:35
2M160954.D	AD27673-002	12/09/21 05:55
2M160955.D	AD27673-003	12/09/21 06:14
2M160956.D	AD27673-004	12/09/21 06:34
2M160957.D	AD27673-001(400u	12/09/21 06:54
2M160958.D	AD27673-005(80uL	12/09/21 07:13
2M160959.D	AD27774-003(80uL	12/09/21 07:33
2M160960.D	AD27673-006(MS)	12/09/21 07:52
2M160961.D	AD27673-006(MSD	12/09/21 08:12
2M160962.D	AD27673-006	12/09/21 08:31
2M160965.D	BLK	12/09/21 09:30
2M160966.D	AD27673-013(10X)	12/09/21 09:50
2M160967.D	AD27673-011(20X)	12/09/21 10:09

Data Path : G:\GcMsData\2021\GCMS_2\Data\12-0821\
Data File : 2M160932.D
Acq On : 08 Dec 2021 22:47
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A1202.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Dec 02 21:41:48 2021



Spectrum Information: Average of 7.360 to 7.366 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	12680	PASS
75	95	30	60	44.9	29708	PASS
95	95	100	100	100.0	66110	PASS
96	95	5	9	6.6	4367	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	94.5	62490	PASS
175	174	5	9	8.9	5588	PASS
176	174	95	101	99.6	62244	PASS
177	176	5	9	5.1	3167	PASS

112805 0070

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M160576.D	CAL @ 20 PPB	12/02/21 15:35	2	2M160580.D	CAL @ 5 PPB	12/02/21 16:54
3	2M160582.D	CAL @ 10 PPB	12/02/21 17:33	4	2M160584.D	CAL @ 50 PPB	12/02/21 18:12
5	2M160587.D	CAL @ 100 PPB	12/02/21 19:11	6	2M160590.D	CAL @ 250 PPB	12/02/21 20:10
7	2M160593.D	CAL @ 500 PPB	12/02/21 21:09	8	2M160575.D	CAL @ 1 PPB	12/02/21 15:15
9	2M160574.D	CAL @ 0.5 PPB	12/02/21 14:56				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4321	0.4422	0.4353	0.4540	0.4617	0.4598	0.4751	0.3926	----	0.444	1.70	1.00	1.00	5.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.3608	0.3210	0.3359	0.3370	0.3742	0.3660	0.3734	0.3433	----	0.352	1.68	1.00	1.00	5.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.3574	0.3658	0.3621	0.3327	0.3505	0.3405	0.3574	0.4347	----	0.363	1.86	0.999	1.00	8.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.2116	0.2494	0.2281	0.1949	0.2162	0.2550	----	0.3290	----	0.241	2.25	0.995	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.4019	0.3902	0.4016	0.3861	0.4145	0.4040	0.3976	0.3929	----	0.399	1.95	1.00	1.00	2.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.2584	0.2436	0.2531	0.2453	0.2574	0.2471	0.2555	0.2980	----	0.257	2.34	1.00	1.00	6.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.6361	0.6119	0.6476	0.5951	0.6522	0.6494	0.6593	0.5920	----	0.630	2.56	1.00	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2498	0.2333	0.2578	0.2568	0.2596	0.2535	0.2597	0.2496	----	0.253	2.80	1.00	1.00	3.5	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.5661	0.5405	0.5673	0.5641	0.5777	0.5649	0.5702	0.5858	----	0.567	2.84	1.00	1.00	2.3	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.2580	0.2361	0.2589	0.2349	0.2621	0.2600	0.2684	0.2705	----	0.256	3.00	1.00	1.00	5.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2937	0.2728	0.2862	0.2831	0.2841	0.2798	0.2897	0.3386	----	0.291	3.41	1.00	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0585	0.0498	0.0556	0.0543	0.0553	0.0566	0.0591	0.0530	----	0.0553	2.92	0.999	1.00	5.4		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.1497	0.1462	0.1436	0.1478	0.1513	0.1563	0.1621	0.1380	----	0.149	3.62	1.00	1.00	5.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.1993	0.1433	0.1623	0.2566	0.3184	0.3359	0.3672	0.1382	----	0.240	3.15	0.989	0.997	38		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.1322	0.1231	0.1280	0.1223	0.1274	0.1241	0.1194	0.1606	----	0.130	3.04	1.00	1.00	10	0.10	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.7332	0.6944	0.7296	0.7186	0.7723	0.7614	0.7938	0.7844	----	0.749	3.21	1.00	1.00	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0407	0.0360	0.0383	0.0375	0.0394	0.0408	0.0428	0.0363	----	0.0390	3.48	0.999	1.00	6.1		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.2948	0.2679	0.2796	0.2582	0.2923	0.2827	0.2880	0.2582	----	0.278	3.87	1.00	1.00	5.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.9805	0.8711	0.9658	0.9721	1.0064	1.0210	1.0630	0.8613	----	0.968	4.03	1.00	1.00	7.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.4337	0.4075	0.4281	0.4134	0.4374	0.4316	0.4461	0.4586	----	0.432	3.01	1.00	1.00	3.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.3339	0.3185	0.3384	0.3214	0.3281	0.3269	0.3305	0.3815	----	0.335	3.32	1.00	1.00	5.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.7882	0.7072	0.7641	0.7837	0.8021	0.8097	0.8523	0.7026	0.7870	0.777	3.64	0.999	1.00	6.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.5151	0.4718	0.5033	0.5062	0.5177	0.5100	0.5372	0.4794	----	0.505	4.00	0.999	1.00	4.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2889	0.2750	0.3021	0.2801	0.3039	0.3015	0.3219	0.2927	----	0.296	3.65	0.999	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.8130	0.7283	0.8000	0.8216	0.8361	0.8388	0.8809	0.6489	----	0.796	4.29	0.999	1.00	9.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.5119	0.4632	0.5126	0.4940	0.5038	0.5145	0.5444	0.4949	----	0.505	4.41	0.999	1.00	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.2785	0.2450	0.2702	0.2599	0.2562	0.2447	0.2562	0.2701	----	0.260	4.57	0.999	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.4194	0.3593	0.3896	0.3770	0.3953	0.3965	0.4139	0.3506	----	0.388	4.42	1.00	1.00	6.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.3694	0.3796	0.4100	0.3897	0.3922	0.3893	0.4123	0.3407	----	0.385	4.43	0.999	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0050	0.0043	0.0047	0.0047	0.0050	0.0053	0.0058	0.0049	----	0.00502	5.49	0.998	1.00	8.9		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.3834	0.3662	0.3780	0.3693	0.3966	0.3954	0.4218	0.3877	----	0.387	4.82	0.999	1.00	4.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.5170	0.4746	0.4994	0.5094	0.5143	0.5105	0.5374	0.5125	----	0.509	4.60	0.999	1.00	3.5	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2989	0.2991	0.2916	0.3057	0.2915	0.3016	0.2996	0.2922	0.2925	0.297	4.70	-1	-1	1.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30:00
Cyclohexane	1	0	Avg	0.3915	0.3943	0.3921	0.3616	0.4031	0.4081	0.4168	0.3653	----	0.392	4.77	1.00	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1439	0.1450	0.1417	0.1415	0.1379	0.1449	0.1392	0.1484	0.1382	0.142	4.91	-1	-1	2.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4099	0.3855	0.4215	0.4013	0.4155	0.4227	0.4651	0.3692	0.4517	0.416	4.95	0.998	1.00	7.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.2051	0.1802	0.1589	0.1652	0.1797	0.1919	0.1910	0.2377	----	0.189	4.41	1.00	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.4790	0.4172	0.4578	0.4554	0.4738	0.4785	0.5066	0.4056	----	0.459	4.73	0.999	1.00	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3976	0.3535	0.3892	0.3790	0.4210	0.4334	0.4707	0.3237	----	0.396	4.83	0.998	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	1.1184	0.9526	1.0767	1.0797	1.0938	1.1194	1.2028	0.9711	----	1.08	4.02	0.999	1.00	7.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3934	0.3202	0.3823	0.3785	0.3911	0.4034	0.4361	0.3191	----	0.378	5.57	0.999	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.42
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

112080S 0071

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M160576.D	CAL @ 20 PPB	12/02/21 15:35	2	2M160580.D	CAL @ 5 PPB	12/02/21 16:54
3	2M160582.D	CAL @ 10 PPB	12/02/21 17:33	4	2M160584.D	CAL @ 50 PPB	12/02/21 18:12
5	2M160587.D	CAL @ 100 PPB	12/02/21 19:11	6	2M160590.D	CAL @ 250 PPB	12/02/21 20:10
7	2M160593.D	CAL @ 500 PPB	12/02/21 21:09	8	2M160575.D	CAL @ 1 PPB	12/02/21 15:15
9	2M160574.D	CAL @ 0.5 PPB	12/02/21 14:56				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.3307	0.3148	0.3456	0.3168	0.3455	0.3558	0.3715	0.3398	----	0.340	5.42	0.999	1.00	5.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2348	0.1927	0.2142	0.2266	0.2296	0.2427	0.2690	0.2196	----	0.229	5.50	0.998	1.00	9.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.3037	0.2703	0.3006	0.2891	0.2960	0.3015	0.3190	0.2622	----	0.293	5.43	0.999	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.3394	0.3124	0.3428	0.3227	0.3473	0.3551	0.3806	0.3239	----	0.341	5.30	0.999	1.00	6.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	1.1437	1.0293	1.1141	1.0855	1.1188	1.1237	1.1485	1.0906	1.0684	1.10	4.95	1.00	1.00	3.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.7773	0.7097	0.7409	0.7501	0.7753	0.7823	0.8186	0.6588	----	0.752	4.99	1.00	1.00	6.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.7215	0.6167	0.6938	0.7023	0.7481	0.7216	0.7424	0.6064	----	0.694	4.95	1.00	1.00	7.8	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.3317	0.2854	0.2995	0.3134	0.3182	0.3095	0.3256	0.2619	----	0.306	5.45	0.999	1.00	7.5	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3482	0.2784	0.3179	0.3431	0.3571	0.3523	0.3809	0.2944	----	0.334	6.42	0.999	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Qua	0.0217	0.0110	0.0136	0.0110	0.0099	0.0085	0.0088	0.0154	----	0.0125	5.71	0.996	0.996	35		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4940	0.4217	0.4619	0.4792	0.4785	0.4533	0.4820	0.4165	----	0.461	5.81	0.999	1.00	6.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.4628	0.3746	0.3999	0.4370	0.4568	0.4353	0.4532	0.4193	----	0.430	6.09	1.00	1.00	7.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.3279	0.2691	0.3113	0.3308	0.3464	0.3393	0.3520	0.2706	----	0.318	6.11	1.00	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.3007	0.2563	0.2934	0.2692	0.2940	0.2833	0.3006	0.2662	----	0.283	6.20	0.999	1.00	6.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3394	0.2960	0.3302	0.3261	0.3308	0.3181	0.3360	0.3119	----	0.324	6.49	0.999	1.00	4.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.5156	0.4297	0.4777	0.4797	0.4950	0.4777	0.5085	0.4702	----	0.482	6.29	0.999	1.00	5.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.4350	0.3329	0.3905	0.4056	0.4159	0.4023	0.4062	0.3785	----	0.396	5.87	1.00	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.3120	0.2895	0.2968	0.2920	0.3107	0.2982	0.3064	0.2591	----	0.296	6.31	1.00	1.00	5.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2686	0.2620	0.2678	0.2536	0.2811	0.2812	0.3184	0.2638	----	0.275	6.29	0.997	1.00	7.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.1394	1.1220	1.1515	1.1336	1.1233	1.0920	1.0507	1.1566	1.1092	1.12	5.95	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7773	0.6747	0.7466	0.7366	0.7749	0.7453	0.7716	0.7323	----	0.745	5.99	1.00	1.00	4.5	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3088	0.2544	0.3004	0.3115	0.3299	0.3415	0.3905	0.2583	----	0.312	6.78	0.996	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.8950	0.7963	0.8478	0.8513	0.8835	0.8584	0.8941	0.7957	----	0.853	6.75	1.00	1.00	4.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.2622	1.0005	1.1537	1.2347	1.3009	1.2445	1.2549	1.0224	----	1.18	6.99	1.00	1.00	9.7	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.2653	1.0474	1.1273	1.2411	1.2991	1.2249	1.2289	1.0357	----	1.18	7.11	1.00	1.00	8.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5054	0.3768	0.4501	0.4929	0.5309	0.5272	0.5690	0.3459	----	0.475	7.20	0.999	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.7995	0.6896	0.7349	0.7271	0.7656	0.7222	0.7792	0.8848	----	0.763	6.79	0.999	1.00	7.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.9190	0.7482	0.8484	0.8184	0.8311	0.8057	0.8340	0.7759	----	0.823	7.42	1.00	1.00	6.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8765	0.8588	0.7867	0.8399	0.8412	0.8096	0.7707	0.8722	0.8638	0.836	7.37	-1	-1	4.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.9274	1.5597	1.7686	1.7957	1.9234	1.8547	1.8410	1.5954	----	1.78	7.07	1.00	1.00	7.8	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	1.1559	0.9572	1.0534	1.0359	1.1011	1.0352	0.9571	1.0082	1.1014	1.05	6.85	0.998	1.00	6.4	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.1192	0.9860	1.0806	1.0548	1.1153	1.0891	1.2179	0.9431	----	1.08	7.07	0.997	1.00	7.9	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.3461	0.2791	0.3058	0.3234	0.3514	0.3450	0.3551	0.2739	----	0.323	7.45	1.00	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.2063	1.0501	1.1420	1.1104	1.2037	1.1538	1.2189	1.1484	----	1.15	7.99	0.999	1.00	4.9	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.2455	1.0486	1.1607	1.1371	1.1995	1.1645	1.2325	1.2181	----	1.18	8.04	0.999	1.00	5.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.1177	0.9940	1.0304	1.0789	1.1279	1.0772	1.1359	1.0806	----	1.08	8.26	0.999	1.00	4.5	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.6140	2.2179	2.3879	2.3572	2.5280	2.3524	2.0053	2.2002	----	2.33	7.26	0.993	1.00	8.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0415	0.0421	0.0380	0.0364	0.0386	0.0360	0.0331	0.0520	----	0.0397	7.34	0.998	1.00	15		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5293	0.4980	0.5392	0.4977	0.5498	0.5296	0.5497	0.6083	----	0.538	7.43	1.00	1.00	6.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	1.0920	0.9294	0.9948	1.0046	1.0808	1.0339	1.0835	0.9629	----	1.02	7.46	1.00	1.00	5.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.5032	1.2987	1.4621	1.3862	1.4644	1.4304	1.4186	1.5453	----	1.44	7.56	1.00	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.42

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120805 0072

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M160576.D	CAL @ 20 PPB	12/02/21 15:35	2	2M160580.D	CAL @ 5 PPB	12/02/21 16:54
3	2M160582.D	CAL @ 10 PPB	12/02/21 17:33	4	2M160584.D	CAL @ 50 PPB	12/02/21 18:12
5	2M160587.D	CAL @ 100 PPB	12/02/21 19:11	6	2M160590.D	CAL @ 250 PPB	12/02/21 20:10
7	2M160593.D	CAL @ 500 PPB	12/02/21 21:09	8	2M160575.D	CAL @ 1 PPB	12/02/21 15:15
9	2M160574.D	CAL @ 0.5 PPB	12/02/21 14:56				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.2664	2.0795	2.2008	2.1407	2.2997	2.1037	2.1608	2.0380	----	2.16	7.55	1.00	1.00	4.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.4859	1.3823	1.4314	1.4424	1.5043	1.3843	1.4076	1.4101	----	1.43	7.62	1.00	1.00	3.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.8500	2.4459	2.6492	2.5809	2.7645	2.5266	2.0933	2.6333	----	2.57	7.49	0.989	1.00	9.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.6013	1.3616	1.4843	1.4575	1.5495	1.4519	1.5070	1.5788	----	1.50	7.46	1.00	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.9381	1.6660	1.7780	1.7664	1.8964	1.8431	1.6299	1.4766	----	1.75	7.58	0.996	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.9081	0.6954	0.8153	0.8890	0.9564	0.9208	0.9794	0.6531	----	0.852	7.59	0.999	1.00	14	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.8293	1.6315	1.6725	1.6792	1.8284	1.7645	1.8292	1.6170	----	1.73	7.78	1.00	1.00	5.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.9547	1.6815	1.8023	1.7840	1.8990	1.8231	1.7911	1.7282	----	1.81	7.80	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.1234	1.8866	2.0255	1.9764	2.1636	2.0303	1.9153	1.9649	----	2.01	7.90	0.999	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.7869	1.5794	1.7223	1.7111	1.8525	1.7809	1.7933	1.6915	----	1.74	7.97	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.7928	1.4998	1.6710	1.5897	1.7818	1.7019	1.7387	1.6365	----	1.68	8.21	1.00	1.00	5.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.9318	0.7671	0.9012	0.8818	0.9793	0.9472	1.0108	0.8295	----	0.906	8.19	0.999	1.00	8.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.2577	1.0632	1.1592	1.2158	1.3474	1.3222	1.3519	1.1626	----	1.24	8.65	1.00	1.00	8.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1982	0.1699	0.1808	0.1886	0.2112	0.2061	0.2061	0.2029	----	0.196	8.71	1.00	1.00	7.4	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0820	0.0655	0.0709	0.0776	0.0874	0.0886	0.0876	0.0732	0.0690	0.0780	9.15	1.00	1.00	11		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Qua	0.1916	0.1740	0.1735	0.1688	0.1828	0.1694	0.1721	0.2915	----	0.191	9.28	1.00	1.00	22		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.4786	0.4077	0.4257	0.4394	0.4810	0.4676	0.4807	0.5564	----	0.467	9.20	1.00	1.00	9.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.3762	0.3554	0.3713	0.3469	0.3813	0.3596	0.3597	0.4759	----	0.378	9.50	1.00	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.5129	1.3006	1.3529	1.4308	1.5641	1.5117	1.4781	1.5753	----	1.47	9.36	1.00	1.00	6.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.42
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

112805 0073

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M156220.D	CAL @ 20 PPB	12/06/21 17:59	2	1M156219.D	CAL @ 5 PPB	12/06/21 17:38
3	1M156218.D	CAL @ 2 PPB	12/06/21 17:18	4	1M156221.D	CAL @ 50 PPB	12/06/21 18:19
5	1M156226.D	CAL @ 100 PPB	12/06/21 19:59	6	1M156224.D	CAL @ 250 PPB	12/06/21 19:19
7	1M156222.D	CAL @ 500 PPB	12/06/21 18:39	8	1M156217.D	CAL @ 1 PPB	12/06/21 16:58
9	1M156216.D	CAL @ 0.5 PPB	12/06/21 16:38				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.5390	0.5636	0.6915	0.5933	0.5932	0.6075	0.6079	----	----	0.599	2.10	1.00	1.00	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.1895	0.1888	0.2442	0.2161	0.2214	0.2365	0.2193	----	----	0.217	2.09	0.998	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.3871	0.4158	0.5797	0.4004	0.4102	0.4284	0.4137	----	----	0.434	2.24	1.00	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Qua	0.0431	0.0542	0.0358	0.0452	0.0611	0.0664	0.0605	----	----	0.0524	2.61	0.997	0.998	21	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.1421	0.1369	0.1546	0.1531	0.1736	0.1912	0.1795	----	----	0.162	2.34	0.999	0.999	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.0652	0.0569	0.0906	0.0723	0.0817	0.0859	0.0731	----	----	0.0751	2.69	0.993	0.999	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.2159	0.2213	0.2871	0.2351	0.2268	0.2616	0.2583	----	----	0.244	2.91	0.999	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1119	0.1295	0.1615	0.1182	0.1260	0.1244	0.1165	----	----	0.127	3.11	0.999	1.00	13	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.3299	0.3427	0.5138	0.3628	0.3608	0.3789	0.3818	----	----	0.382	3.15	1.00	1.00	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.0538	0.0529	0.0748	0.0577	0.0627	0.0641	0.0553	----	----	0.0602	3.30	0.994	0.999	13	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.0633	0.0818	0.0896	0.0589	0.0694	0.0677	0.0595	----	----	0.0701	3.68	0.995	0.999	17	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0278	0.0275	0.0280	0.0267	0.0279	0.0277	0.0269	----	----	0.0275	3.22	1.00	1.00	1.8		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0886	0.0937	0.1295	0.0902	0.0872	0.0842	0.0805	----	----	0.0935	3.86	0.999	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.0618	0.0356	0.0234	0.0780	0.0857	0.0917	0.0840	----	----	0.0658	3.45	0.998	0.999	41		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0736	0.0883	0.1486	0.0729	0.0648	0.0680	0.0661	----	----	0.0832	3.33	1.00	1.00	36	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.1678	0.1830	0.2611	0.1918	0.2131	0.2222	0.1941	----	----	0.205	3.52	0.995	0.999	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0264	0.0288	0.0358	0.0281	0.0257	0.0265	0.0242	----	----	0.0280	3.74	0.998	1.00	14		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.1658	0.1432	0.1981	0.1953	0.1905	0.1847	0.1759	----	----	0.179	4.12	0.999	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.6277	0.6203	0.6757	0.6854	0.6570	0.6263	0.6471	----	----	0.649	4.27	1.00	1.00	3.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.1913	0.1939	0.2476	0.2062	0.2064	0.2110	0.2094	----	----	0.209	3.31	1.00	1.00	8.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Qua	0.1804	0.2145	0.3290	0.1838	0.1683	0.1659	0.1594	----	----	0.200	3.59	1.00	1.00	30	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Qua	0.2579	0.2732	0.3957	0.2752	0.2786	0.2709	0.2716	0.4233	----	0.306	3.90	1.00	1.00	21	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.1947	0.1976	0.2658	0.1948	0.2012	0.1884	0.1871	----	----	0.204	4.22	1.00	1.00	14	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.0575	0.0634	0.0581	0.0626	0.0682	0.0659	0.0610	----	----	0.0624	3.90	0.998	1.00	6.2	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.4197	0.5729	0.4542	0.4479	0.4459	0.4128	0.4249	----	----	0.454	4.51	1.00	1.00	12	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.2432	0.3724	0.2951	0.2507	0.2356	0.2297	0.2261	----	----	0.265	4.62	1.00	1.00	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.3208	0.2852	0.3974	0.2374	0.2930	0.2981	0.2263	----	----	0.294	4.77	0.978	0.997	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.1965	0.2695	0.2274	0.2056	0.1969	0.1965	0.1946	----	----	0.213	4.63	1.00	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.2528	0.3361	0.1871	0.2332	0.2374	0.2299	0.2192	----	----	0.242	4.65	0.999	1.00	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0024	0.0027	0.0019	0.0027	0.0025	0.0026	0.0024	----	----	0.00251	5.71	0.999	1.00	10		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.1829	0.1681	0.2098	0.1716	0.1705	0.1770	0.1754	----	----	0.179	5.04	1.00	1.00	8.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.2680	0.2781	0.3601	0.2097	0.2526	0.2493	0.2026	----	----	0.260	4.81	0.988	0.999	20	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2721	0.2756	0.2844	0.2713	0.2568	0.2639	0.2493	0.2642	0.2643	0.267	4.91	-1	-1	3.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.3656	0.3322	0.4401	0.3862	0.3784	0.3838	0.3811	----	----	0.381	4.98	1.00	1.00	8.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.2370	0.2413	0.2351	0.2380	0.2312	0.2290	0.2339	0.2253	0.2249	0.233	5.11	-1	-1	2.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.3632	0.4022	0.5271	0.3802	0.3493	0.3487	0.3797	----	----	0.393	5.16	0.998	1.00	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.1242	0.1598	0.1941	0.1409	0.1263	0.1303	0.1254	----	----	0.143	4.63	1.00	1.00	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.2918	0.2791	0.3865	0.3009	0.2806	0.2924	0.2975	----	----	0.304	4.95	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.2551	0.2544	0.2835	0.2725	0.2587	0.2671	0.2712	----	----	0.266	5.04	1.00	1.00	4.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.6531	0.6159	0.6761	0.7158	0.6605	0.6370	0.6640	----	----	0.660	4.25	0.999	1.00	4.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.2136	0.2527	0.2333	0.2287	0.2238	0.2262	0.2397	----	----	0.231	5.77	0.999	1.00	5.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

112080S 0074

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M156220.D	CAL @ 20 PPB	12/06/21 17:59	2	1M156219.D	CAL @ 5 PPB	12/06/21 17:38
3	1M156218.D	CAL @ 2 PPB	12/06/21 17:18	4	1M156221.D	CAL @ 50 PPB	12/06/21 18:19
5	1M156226.D	CAL @ 100 PPB	12/06/21 19:59	6	1M156224.D	CAL @ 250 PPB	12/06/21 19:19
7	1M156222.D	CAL @ 500 PPB	12/06/21 18:39	8	1M156217.D	CAL @ 1 PPB	12/06/21 16:58
9	1M156216.D	CAL @ 0.5 PPB	12/06/21 16:38				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1927	0.1837	0.1843	0.2026	0.2043	0.2079	0.2008	----	----	0.197	5.63	1.00	1.00	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1044	0.1134	0.0916	0.1006	0.1016	0.1007	0.1040	----	----	0.102	5.70	1.00	1.00	6.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.1584	0.1570	0.2245	0.1619	0.1682	0.1626	0.1665	----	----	0.171	5.63	1.00	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.1064	0.1136	0.1389	0.1201	0.1211	0.1220	0.1215	----	----	0.121	5.51	1.00	1.00	8.2	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.4518	0.4850	0.5989	0.4749	0.4721	0.4778	0.4656	0.7347	----	0.520	5.15	1.00	1.00	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.3525	0.3487	0.3990	0.3779	0.3713	0.3685	0.3829	----	----	0.372	5.20	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.5797	0.5938	0.6069	0.5861	0.5251	0.5026	0.4988	----	----	0.556	5.15	1.00	1.00	8.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.2357	0.2415	0.2710	0.2764	0.2571	0.2298	0.2383	----	----	0.250	5.66	0.999	0.999	7.3	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.1202	0.1496	0.1194	0.1379	0.1369	0.1420	0.1451	----	----	0.136	6.64	1.00	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0055	0.0052	0.0034	0.0078	0.0072	0.0069	0.0067	----	----	0.00613	5.91	0.999	1.00	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.2192	0.1872	0.2244	0.2275	0.2217	0.2185	0.2137	----	----	0.216	6.01	1.00	1.00	6.2	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.2510	0.2543	0.2797	0.2506	0.2476	0.2495	0.2469	----	----	0.254	6.31	1.00	1.00	4.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.2561	0.2768	0.2933	0.2875	0.2629	0.2661	0.2698	----	----	0.273	6.32	1.00	1.00	4.9	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1022	0.1184	0.1138	0.1068	0.1046	0.1034	0.1011	----	----	0.107	6.40	1.00	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.1047	0.1196	0.1093	0.1069	0.1098	0.1105	0.1109	0.1190	0.1504	0.116	6.71	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.1978	0.2050	0.2333	0.2070	0.2012	0.2034	0.2043	----	----	0.207	6.51	1.00	1.00	5.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.3199	0.3067	0.3584	0.3516	0.3134	0.3070	0.3010	----	----	0.323	6.08	1.00	1.00	7.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.2514	0.2689	0.3095	0.2624	0.2382	0.2347	0.2341	----	----	0.257	6.52	1.00	1.00	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.1291	0.1381	0.1712	0.1426	0.1304	0.1386	0.1337	----	----	0.141	6.51	1.00	1.00	10	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.0561	1.0991	1.0651	1.1056	1.0661	1.0397	1.0066	1.0871	1.0609	1.07	6.17	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.3324	0.3353	0.3055	0.3512	0.3401	0.3481	0.3354	0.4408	----	0.349	6.21	1.00	1.00	11	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.1281	0.1510	0.1363	0.1438	0.1451	0.1467	0.1523	----	----	0.143	7.01	1.00	1.00	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.3827	0.3909	0.4187	0.3909	0.3759	0.3905	0.3974	----	----	0.392	6.97	1.00	1.00	3.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.6970	0.7531	0.7346	0.7213	0.7104	0.6219	0.6011	----	----	0.691	7.23	0.999	0.999	8.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.7176	0.7645	0.9357	0.7188	0.6842	0.5893	0.5772	----	----	0.713	7.35	0.999	0.999	17	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.1667	0.1969	0.1933	0.1672	0.1674	0.1561	0.1475	----	----	0.171	7.43	0.999	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.2462	0.2665	0.2569	0.2477	0.2296	0.2160	0.1902	0.3142	----	0.246	7.02	0.995	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.1823	0.2184	0.2201	0.1937	0.1903	0.1686	0.1623	----	----	0.191	7.65	0.999	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.8180	0.8748	0.8177	0.7921	0.7528	0.7228	0.6696	0.8493	0.8624	0.796	7.60	-1	-1	8.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	0.5839	0.6163	0.6593	0.5908	0.5953	0.5390	0.5047	----	----	0.584	7.31	0.998	1.00	8.6	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Qua	0.3470	0.3564	0.3824	0.3625	0.3429	0.3149	0.2848	0.4674	0.6066	0.385	7.08	0.997	1.00	25	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.3550	0.4196	0.3932	0.3643	0.3585	0.3232	0.3009	0.5217	----	0.380	7.31	0.998	1.00	18	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2416	0.2679	0.2522	0.2581	0.2445	0.2249	0.2185	----	----	0.244	7.68	0.999	1.00	7.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	0.4699	0.4602	0.5239	0.4835	0.4732	0.4774	0.4736	----	----	0.480	8.22	1.00	1.00	4.3	0.60 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.5029	0.4980	0.5780	0.4972	0.4959	0.4982	0.4921	----	----	0.509	8.27	1.00	1.00	6.0	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.4730	0.4765	0.5519	0.4687	0.4831	0.4859	0.4861	----	----	0.489	8.49	1.00	1.00	5.8	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	0.8594	0.9438	0.7768	0.9043	0.8954	0.8495	0.8101	1.0098	----	0.881	7.50	0.999	1.00	8.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0287	0.0348	0.0307	0.0272	0.0239	0.0200	0.0179	----	----	0.0262	7.57	0.994	0.999	23		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.3457	0.3410	0.3688	0.3658	0.3683	0.3404	0.3222	----	----	0.350	7.67	0.999	1.00	5.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.3062	0.3616	0.4047	0.3031	0.3148	0.2861	0.2757	----	----	0.322	7.68	0.999	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	0.5653	0.5816	0.6676	0.6149	0.5850	0.5751	0.5783	----	----	0.595	7.79	1.00	1.00	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M156220.D	CAL @ 20 PPB	12/06/21 17:59	2	1M156219.D	CAL @ 5 PPB	12/06/21 17:38
3	1M156218.D	CAL @ 2 PPB	12/06/21 17:18	4	1M156221.D	CAL @ 50 PPB	12/06/21 18:19
5	1M156226.D	CAL @ 100 PPB	12/06/21 19:59	6	1M156224.D	CAL @ 250 PPB	12/06/21 19:19
7	1M156222.D	CAL @ 500 PPB	12/06/21 18:39	8	1M156217.D	CAL @ 1 PPB	12/06/21 16:58
9	1M156216.D	CAL @ 0.5 PPB	12/06/21 16:38				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	0.8894	0.8580	1.1653	0.9504	0.9568	0.9291	0.9291	----	----	0.954	7.78	1.00	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	0.5408	0.6199	0.6870	0.5985	0.5816	0.5876	0.5750	----	----	0.599	7.86	1.00	1.00	7.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	1.0439	1.0912	1.0154	1.0718	1.0914	1.0450	1.0151	1.5132	----	1.11	7.73	1.00	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.5556	0.5992	0.5468	0.5886	0.5745	0.5435	0.5253	----	----	0.562	7.70	0.999	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	0.7587	0.8179	0.9442	0.7993	0.8063	0.8048	0.7835	1.1980	----	0.864	7.81	1.00	1.00	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Qua	0.6080	0.5934	0.7994	0.6033	0.5638	0.5044	0.5044	1.0812	----	0.657	7.82	0.999	0.999	30	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	0.7346	0.7972	0.7027	0.8147	0.7962	0.7976	0.7815	1.0247	----	0.806	8.01	1.00	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Qua	0.8147	0.8336	0.9092	0.8539	0.8562	0.8591	0.8449	1.4857	----	0.932	8.04	1.00	1.00	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	0.9511	0.9239	1.0147	1.0446	1.0670	1.0698	1.0435	1.6149	----	1.09	8.13	1.00	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	0.8542	0.8958	1.0911	0.9253	0.9090	0.9477	0.9259	1.4721	----	1.00	8.21	1.00	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.0371	1.0282	1.1729	1.1075	1.1158	1.1794	1.1314	1.5125	----	1.16	8.44	1.00	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.5033	0.5047	0.5621	0.5441	0.5378	0.5852	0.5561	----	----	0.542	8.43	0.999	1.00	5.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	0.8726	0.8874	0.9372	0.9539	0.9941	1.0275	1.0316	----	----	0.958	8.88	1.00	1.00	6.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.0667	0.0814	0.0668	0.0725	0.0796	0.0758	0.0752	----	----	0.0740	8.94	1.00	1.00	7.8	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0322	0.0331	0.0433	0.0343	0.0370	0.0332	0.0333	----	----	0.0353	9.38	0.999	1.00	11		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.3302	0.3177	0.3657	0.3903	0.3989	0.3891	0.3966	----	----	0.370	9.52	1.00	1.00	9.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.4913	0.4983	0.5210	0.5196	0.5009	0.5178	0.5275	----	----	0.511	9.44	1.00	1.00	2.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.4568	0.4637	0.4629	0.5184	0.5197	0.5073	0.5362	----	----	0.495	9.74	0.999	1.00	6.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	0.9246	1.0071	0.9159	0.9939	1.0557	0.9768	1.0206	1.2055	----	1.01	9.60	0.999	1.00	9.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

112080S 0076

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M156289.D	CAL @ 20 PPB	12/07/21 16:28	2	1M156288.D	CAL @ 5 PPB	12/07/21 16:08
3	1M156287.D	CAL @ 2 PPB	12/07/21 15:48	4	1M156290.D	CAL @ 50 PPB	12/07/21 16:48
5	1M156291.D	CAL @ 100 PPB	12/07/21 17:08	6	1M156292.D	CAL @ 250 PPB	12/07/21 17:28
7	1M156293.D	CAL @ 500 PPB	12/07/21 17:49	8	1M156286.D	CAL @ 1 PPB	12/07/21 15:28
9	1M156285.D	CAL @ 0.5 PPB	12/07/21 15:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2526	0.2729	0.3110	0.2588	0.2791	0.2723	0.2488	----	----	0.271	2.10	0.998	1.00	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.1358	0.1429	0.1858	0.1378	0.1498	0.1495	0.1385	----	----	0.149	2.09	0.998	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.2017	0.2520	0.3079	0.1944	0.2095	0.1949	0.2039	----	----	0.224	2.24	0.999	1.00	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.0768	0.0967	0.1075	0.0774	0.0887	0.0906	0.0895	----	----	0.0896	2.61	1.00	1.00	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.1488	0.1662	0.2026	0.1482	0.1557	0.1529	0.1461	----	----	0.160	2.34	0.999	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Qua	0.0902	0.1033	0.1524	0.0870	0.0909	0.0911	0.0863	----	----	0.100	2.69	0.999	1.00	24	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.2011	0.2391	0.3287	0.2038	0.2102	0.2146	0.2078	----	----	0.229	2.91	1.00	1.00	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1102	0.1270	0.1558	0.1171	0.1125	0.1093	0.1048	----	----	0.120	3.11	0.999	1.00	15	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.2122	0.2311	0.2976	0.2083	0.2087	0.2049	0.1931	----	----	0.222	3.15	0.999	1.00	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.0792	0.0821	0.1049	0.0804	0.0851	0.0850	0.0785	----	----	0.0851	3.30	0.998	1.00	11	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Qua	0.1100	0.1242	0.1846	0.1078	0.1083	0.1081	0.1049	----	----	0.121	3.68	1.00	1.00	24	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0212	0.0216	0.0248	0.0210	0.0218	0.0215	0.0212	----	----	0.0219	3.22	1.00	1.00	6.1		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0653	0.0771	0.0952	0.0657	0.0666	0.0620	0.0586	----	----	0.0701	3.86	0.999	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.0991	0.0636	0.0470	0.1207	0.1302	0.1255	0.1174	----	----	0.101	3.45	0.998	1.00	33		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0449	0.0564	0.0748	0.0421	0.0403	0.0401	0.0370	----	----	0.0480	3.33	0.999	1.00	28	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.3068	0.3606	0.4551	0.3121	0.3237	0.3274	0.3200	----	----	0.344	3.52	1.00	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0235	0.0236	0.0260	0.0225	0.0220	0.0223	0.0213	----	----	0.0231	3.74	1.00	1.00	6.7		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.1580	0.1627	0.1897	0.1686	0.1732	0.1750	0.1662	----	----	0.171	4.12	0.999	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.3812	0.4236	0.4394	0.3807	0.4103	0.4048	0.3764	----	----	0.402	4.27	0.999	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Qua	0.1787	0.2061	0.3039	0.1805	0.1841	0.1821	0.1816	----	----	0.202	3.31	1.00	1.00	23	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Qua	0.1147	0.1366	0.1679	0.1027	0.1053	0.1045	0.0971	----	----	0.118	3.59	0.999	1.00	21	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Qua	0.3117	0.3440	0.4381	0.2953	0.3259	0.3223	0.3092	0.5883	----	0.367	3.90	1.00	1.00	27	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.2114	0.2433	0.3268	0.2085	0.2239	0.2163	0.2074	----	----	0.234	4.22	0.999	1.00	18	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Qua	0.0966	0.0631	0.1385	0.0975	0.1076	0.1029	0.0995	----	----	0.101	3.90	0.999	1.00	22	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.3762	0.3935	0.4398	0.3789	0.4080	0.4053	0.3838	----	----	0.398	4.51	0.999	1.00	5.6	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.2172	0.2557	0.3546	0.2208	0.2312	0.2262	0.2152	----	----	0.246	4.62	0.999	1.00	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1126	0.1566	0.1652	0.1112	0.1528	0.1368	0.1322	----	----	0.138	4.77	0.998	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.1879	0.2182	0.2390	0.1888	0.1984	0.1940	0.1871	----	----	0.202	4.63	1.00	1.00	9.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.1462	0.1633	0.1517	0.1392	0.1468	0.1498	0.1427	----	----	0.149	4.65	0.999	1.00	5.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0026	0.0026	0.0025	0.0026	0.0026	0.0025	0.0024	----	----	0.00258	5.71	1.00	1.00	2.3		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.1588	0.1729	0.1938	0.1653	0.1821	0.1784	0.1673	----	----	0.174	5.04	0.999	1.00	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.2122	0.2327	0.3054	0.1998	0.2344	0.2087	0.2109	----	----	0.229	4.81	0.999	0.999	16	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2412	0.2445	0.2457	0.2308	0.2659	0.2430	0.2618	0.2270	0.2375	0.244	4.91	-1	-1	5.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2345	0.2360	0.3520	0.2353	0.2582	0.2593	0.2435	----	----	0.260	4.98	0.999	1.00	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1741	0.1829	0.1783	0.1686	0.1746	0.1768	0.1799	0.1810	0.1723	0.177	5.11	-1	-1	2.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2331	0.2571	0.3218	0.2237	0.2348	0.2330	0.2163	----	----	0.246	5.16	0.999	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0937	0.1238	0.1048	0.0909	0.1198	0.1066	0.1010	----	----	0.106	4.63	0.998	0.999	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.2253	0.2405	0.3088	0.2151	0.2385	0.2282	0.2217	----	----	0.240	4.95	1.00	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.1974	0.2196	0.2596	0.1977	0.2123	0.2039	0.1936	----	----	0.212	5.04	0.999	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.3847	0.3863	0.4551	0.3838	0.4173	0.4093	0.3836	----	----	0.403	4.25	0.999	1.00	6.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.1853	0.2098	0.2426	0.1796	0.1982	0.1983	0.1891	----	----	0.200	5.77	0.999	1.00	11	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

112805 0077

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M156289.D	CAL @ 20 PPB	12/07/21 16:28	2	1M156288.D	CAL @ 5 PPB	12/07/21 16:08
3	1M156287.D	CAL @ 2 PPB	12/07/21 15:48	4	1M156290.D	CAL @ 50 PPB	12/07/21 16:48
5	1M156291.D	CAL @ 100 PPB	12/07/21 17:08	6	1M156292.D	CAL @ 250 PPB	12/07/21 17:28
7	1M156293.D	CAL @ 500 PPB	12/07/21 17:49	8	1M156286.D	CAL @ 1 PPB	12/07/21 15:28
9	1M156285.D	CAL @ 0.5 PPB	12/07/21 15:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1902	0.1921	0.1931	0.2046	0.2197	0.2192	0.2075	----	----	0.204	5.63	0.999	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.0878	0.1034	0.1311	0.0882	0.0961	0.0943	0.0900	----	----	0.0988	5.70	0.999	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.1343	0.1326	0.1673	0.1374	0.1470	0.1457	0.1403	----	----	0.144	5.63	1.00	1.00	8.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.1155	0.1154	0.1366	0.1135	0.1200	0.1194	0.1131	----	----	0.119	5.51	0.999	1.00	6.9	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.4676	0.5200	0.6145	0.4668	0.4996	0.4900	0.4689	0.6910	----	0.527	5.15	0.999	1.00	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.3332	0.3187	0.3458	0.3275	0.3710	0.3683	0.3510	----	----	0.345	5.20	0.999	1.00	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.2811	0.2941	0.3064	0.2814	0.2959	0.2912	0.2692	----	----	0.289	5.15	0.998	1.00	4.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.1512	0.1063	0.1188	0.1296	0.1435	0.1406	0.1302	----	----	0.132	5.66	0.998	1.00	12	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.1239	0.1321	0.1435	0.1279	0.1403	0.1401	0.1334	----	----	0.134	6.64	0.999	1.00	5.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0054	0.0055	0.0025	0.0056	0.0060	0.0066	0.0063	----	----	0.00546	5.91	0.999	0.999	25		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.2118	0.2160	0.2368	0.2214	0.2376	0.2422	0.2283	----	----	0.228	6.01	0.999	1.00	5.1	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.2251	0.2141	0.2315	0.2243	0.2410	0.2425	0.2305	----	----	0.230	6.31	0.999	1.00	4.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.1307	0.1164	0.1653	0.1348	0.1506	0.1498	0.1386	----	----	0.141	6.32	0.998	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1130	0.1163	0.1337	0.1121	0.1190	0.1191	0.1138	----	----	0.118	6.40	0.999	1.00	6.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.1026	0.1134	0.1145	0.1177	0.1243	0.1256	0.1204	0.1182	0.1798	0.124	6.71	1.00	1.00	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.2040	0.1990	0.2306	0.2071	0.2269	0.2266	0.2167	----	----	0.216	6.51	0.999	1.00	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.1652	0.1597	0.1840	0.1632	0.1789	0.1753	0.1638	----	----	0.170	6.08	0.999	1.00	5.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.1208	0.1321	0.1713	0.1271	0.1347	0.1303	0.1266	----	----	0.135	6.52	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.1221	0.1214	0.1188	0.1232	0.1312	0.1296	0.1194	----	----	0.124	6.51	0.998	1.00	3.9	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1300	1.1470	1.1374	1.1699	1.1517	1.1461	1.1476	1.1080	1.1068	1.14	6.17	-1	-1	1.8		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.3391	0.3484	0.3741	0.3432	0.3632	0.3606	0.3391	0.3941	----	0.358	6.21	0.999	1.00	5.4	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.1315	0.1246	0.1302	0.1310	0.1453	0.1400	0.1353	----	----	0.134	7.01	0.999	1.00	5.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.3756	0.3867	0.4091	0.3758	0.4049	0.4000	0.3829	----	----	0.391	6.97	0.999	1.00	3.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.4899	0.4953	0.6271	0.5056	0.5396	0.5252	0.5222	----	----	0.529	7.23	1.00	1.00	8.8	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.3947	0.4009	0.4970	0.4076	0.4202	0.4009	0.3934	----	----	0.416	7.35	1.00	1.00	8.8	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.1623	0.1655	0.1653	0.1642	0.1749	0.1694	0.1660	----	----	0.167	7.43	1.00	1.00	2.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.2525	0.2433	0.2689	0.2589	0.2645	0.2521	0.2451	0.2735	----	0.257	7.02	1.00	1.00	4.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.2488	0.2501	0.2137	0.2354	0.2459	0.2432	0.2415	----	----	0.240	7.65	1.00	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.8104	0.8256	0.7830	0.7901	0.7587	0.7343	0.7180	0.8003	0.8124	0.781	7.60	-1	-1	4.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	0.6388	0.6098	0.6174	0.6649	0.6874	0.6490	0.6355	----	----	0.643	7.31	1.00	1.00	4.2	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Qua	0.3569	0.3676	0.3786	0.3765	0.3771	0.3626	0.3456	0.4721	0.6025	0.404	7.08	0.999	1.00	20	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.3666	0.3686	0.4082	0.3857	0.3939	0.3699	0.3594	0.4555	----	0.389	7.31	1.00	1.00	8.1	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1663	0.1710	0.1603	0.1721	0.1754	0.1704	0.1610	----	----	0.168	7.68	0.999	1.00	3.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	0.4671	0.4917	0.5628	0.4688	0.5077	0.4997	0.4863	----	----	0.498	8.22	1.00	1.00	6.5	0.60 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.5062	0.5453	0.6006	0.4882	0.5181	0.5176	0.4980	----	----	0.525	8.27	1.00	1.00	7.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.4751	0.4902	0.5326	0.4623	0.5068	0.4958	0.4731	----	----	0.491	8.49	0.999	1.00	4.8	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	0.9800	1.0244	1.0519	1.0156	1.0508	1.0186	0.9942	1.2160	----	1.04	7.50	1.00	1.00	7.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0195	0.0272	0.0356	0.0204	0.0178	0.0186	0.0168	----	----	0.0223	7.57	0.997	0.999	30		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.3661	0.3372	0.3944	0.3909	0.3936	0.3808	0.3699	----	----	0.376	7.67	1.00	1.00	5.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.3574	0.3841	0.3997	0.3552	0.3735	0.3585	0.3593	----	----	0.370	7.68	1.00	1.00	4.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	0.6411	0.6580	0.7140	0.6580	0.7109	0.6868	0.6718	----	----	0.677	7.79	1.00	1.00	4.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120805 0078

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M156289.D	CAL @ 20 PPB	12/07/21 16:28	2	1M156288.D	CAL @ 5 PPB	12/07/21 16:08
3	1M156287.D	CAL @ 2 PPB	12/07/21 15:48	4	1M156290.D	CAL @ 50 PPB	12/07/21 16:48
5	1M156291.D	CAL @ 100 PPB	12/07/21 17:08	6	1M156292.D	CAL @ 250 PPB	12/07/21 17:28
7	1M156293.D	CAL @ 500 PPB	12/07/21 17:49	8	1M156286.D	CAL @ 1 PPB	12/07/21 15:28
9	1M156285.D	CAL @ 0.5 PPB	12/07/21 15:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.0187	1.0264	1.1232	1.0472	1.0776	1.0699	1.0914	----	----	1.06	7.78	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	0.6547	0.7262	0.7547	0.6593	0.6834	0.6900	0.6759	----	----	0.692	7.86	1.00	1.00	5.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	1.2307	1.2544	1.3854	1.2316	1.2647	1.2451	1.2244	1.6499	----	1.31	7.73	1.00	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.6680	0.6861	0.6728	0.6441	0.6676	0.6373	0.6360	----	----	0.659	7.70	1.00	1.00	3.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	0.8736	0.9437	1.0241	0.8885	0.9293	0.9453	0.8889	1.2064	----	0.963	7.81	0.999	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Qua	0.3377	0.3417	0.4492	0.3113	0.3535	0.3294	0.3306	0.5833	----	0.380	7.82	1.00	1.00	24	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	0.8156	0.8414	0.9234	0.8332	0.8741	0.8759	0.8563	1.2386	----	0.907	8.01	1.00	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	0.9046	0.8715	1.0304	0.9017	0.9580	0.9631	0.9439	1.4630	----	1.00	8.04	1.00	1.00	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.0990	1.1267	1.2255	1.1508	1.1902	1.2184	1.1751	1.5735	----	1.22	8.13	1.00	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	0.9607	1.0559	1.2321	0.9464	0.9926	1.0367	0.9933	1.6768	----	1.11	8.21	1.00	1.00	22		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.1028	1.1750	1.2810	1.1544	1.2243	1.2710	1.1992	1.4388	----	1.23	8.44	0.999	1.00	8.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.5652	0.5425	0.6074	0.5571	0.6065	0.6296	0.5985	0.7914	----	0.612	8.43	0.999	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	0.8851	0.8397	0.8683	0.9367	1.0688	1.0610	0.9922	----	----	0.950	8.88	0.999	1.00	9.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.0747	0.0732	0.0824	0.0768	0.0821	0.0793	0.0756	----	----	0.0778	8.94	0.999	1.00	4.7	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0341	0.0355	0.0468	0.0356	0.0373	0.0362	0.0341	----	----	0.0371	9.38	0.999	1.00	12		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.2977	0.2840	0.2923	0.3050	0.3318	0.3150	0.2835	----	----	0.301	9.52	0.997	1.00	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.4293	0.4308	0.4646	0.4440	0.4897	0.4542	0.4193	----	----	0.447	9.44	0.998	1.00	5.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.4397	0.4071	0.4731	0.4428	0.4697	0.4372	0.4011	----	----	0.439	9.74	0.998	1.00	6.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	0.9096	0.9018	0.9475	0.9296	1.0108	0.9509	0.8839	1.1705	----	0.963	9.60	0.998	1.00	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: IM156236.D Instrument: GCMS I

Cont Calibration Date/Time 12/6/2021 11:15:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.30	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		2.09	44.56	50	20	0.1	0.599	0.534	10.88	
Dichlorodifluoromethane	1	0		2.08	46.14	50	20	0.1	0.217	0.200	7.72	
Chloromethane	1	0		2.25	44.68	50	20	0.1	0.434	0.388	10.64	
Bromomethane	1	0		2.62	35.03	50	20	0.1	0.052	0.046	29.94	C1
Vinyl Chloride	1	0		2.33	39.25	50	20	0.1	0.162	0.127	21.49	C1
Chloroethane	1	0		2.70	45.36	50	20	0.1	0.075	0.068	9.29	
Trichlorofluoromethane	1	0		2.90	43.65	50	20	0.1	0.244	0.213	12.69	
Ethyl ether	1	0		3.12	47.26	50	20	0.5	0.127	0.120	5.48	
Furan	1	0		3.16	44.03	50	20	0.5	0.382	0.336	11.93	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.30	39.79	50	20	0.1	0.060	0.048	20.43	
Methylene Chloride	1	0		3.68	40.82	50	20	0.1	0.070	0.057	18.36	
Acrolein	1	0		3.22	248.24	250	20		0.028	0.027	0.71	
Acrylonitrile	1	0		3.86	50.40	50	20		0.093	0.094	0.80	
Iodomethane	1	0		3.45	32.65	50	20		0.066	0.061	34.71	C1
Acetone	1	0		3.33	283.56	250	20	0.1	0.083	0.078	13.42	
Carbon Disulfide	1	0		3.52	36.51	50	20	0.1	0.205	0.150	26.98	C1
t-Butyl Alcohol	1	0		3.75	231.21	250	20		0.028	0.026	7.52	
n-Hexane	1	0		4.12	39.91	50	20		0.179	0.143	20.18	
Di-isopropyl-ether	1	0		4.26	48.80	50	20		0.649	0.633	2.40	
1,1-Dichloroethene	1	0		3.31	43.12	50	20	0.1	0.209	0.181	13.75	
Methyl Acetate	1	0		3.59	55.37	50	20	0.1	0.200	0.190	10.74	
Methyl-t-butyl ether	1	0		3.90	49.56	50	20	0.1	0.306	0.271	0.89	
1,1-Dichloroethane	1	0		4.23	41.48	50	20	0.2	0.204	0.169	17.03	
trans-1,2-Dichloroethene	1	0		3.92	45.64	50	20	0.1	0.062	0.057	8.73	
Ethyl-t-butyl ether	1	0		4.51	44.72	50	20	0.5	0.454	0.406	10.56	
cis-1,2-Dichloroethene	1	0		4.62	43.51	50	20	0.1	0.265	0.230	12.98	
Bromochloromethane	1	0		4.77	36.85	50	20		0.294	0.217	26.30	C1
2,2-Dichloropropane	1	0		4.63	40.88	50	20		0.213	0.174	18.24	
Ethyl acetate	1	0		4.64	45.39	50	20		0.242	0.220	9.21	
1,4-Dioxane	1	0		5.71	2577.65	2500	20		0.003	0.003	3.11	
1,1-Dichloropropene	1	0		5.03	40.48	50	20		0.179	0.145	19.05	
Chloroform	1	0		4.81	40.00	50	20	0.2	0.260	0.208	19.99	
Dibromofluoromethane	1	0	S	4.90	30.65	75	**		0.267	0.273	2.15	
Cyclohexane	1	0		4.98	42.43	50	20	0.1	0.381	0.323	15.13	
1,2-Dichloroethane-d4	1	0	S	5.11	33.97	75	**		0.233	0.264	13.23	
1,2-Dichloroethane	1	0		5.15	49.79	50	20	0.1	0.393	0.391	0.41	
2-Butanone	1	0		4.63	45.25	50	20	0.1	0.143	0.129	9.51	
1,1,1-Trichloroethane	1	0		4.94	45.69	50	20	0.1	0.304	0.278	8.63	
Carbon Tetrachloride	1	0		5.04	46.76	50	20	0.1	0.266	0.249	6.48	
Vinyl Acetate	1	0		4.25	49.95	50	20		0.660	0.660	0.11	
Bromodichloromethane	1	0		5.77	49.40	50	20	0.2	0.231	0.228	1.19	
Methylcyclohexane	1	0		5.63	40.57	50	20	0.1	0.197	0.160	18.86	
Dibromomethane	1	0		5.70	47.54	50	20		0.102	0.097	4.92	
1,2-Dichloropropane	1	0		5.63	44.22	50	20	0.1	0.171	0.152	11.57	
Trichloroethene	1	0		5.51	41.72	50	20	0.2	0.121	0.101	16.56	
Benzene	1	0		5.15	40.01	50	20	0.5	0.520	0.416	19.97	
tert-Amyl methyl ether	1	0		5.20	49.49	50	20		0.372	0.368	1.03	
Chlorobenzene-d5	1	0	I	6.96	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.15	49.57	50	20	0.5	0.556	0.551	0.87	
Methyl methacrylate	1	0		5.66	50.27	50	20	0.5	0.250	0.251	0.54	
Dibromochloromethane	1	0		6.64	48.23	50	20	0.1	0.136	0.131	3.54	

S-Surrogate Compound I-Internal Standard Compound Page 1 of 2

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: 1M156236.D Instrument: GCMS 1

Cont Calibration Date/Time 12/6/2021 11:15:00 P Method: EPA 8260D

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.91	30.00	50	20		0.006	0.004	40.01	C1
cis-1,3-Dichloropropene	1	0		6.01	45.79	50	20	0.2	0.216	0.198	8.41	
trans-1,3-Dichloropropene	1	0		6.30	45.11	50	20	0.1	0.254	0.229	9.78	
Ethyl methacrylate	1	0		6.32	51.02	50	20	0.5	0.273	0.279	2.05	
1,1,2-Trichloroethane	1	0		6.40	43.64	50	20	0.1	0.107	0.094	12.73	
1,2-Dibromoethane	1	0		6.72	44.46	50	20	0.1	0.116	0.103	11.07	
1,3-Dichloropropane	1	0		6.50	45.87	50	20		0.207	0.190	8.26	
4-Methyl-2-Pentanone	1	0		6.08	50.78	50	20	0.1	0.323	0.328	1.55	
2-Hexanone	1	0		6.52	49.34	50	20	0.1	0.257	0.254	1.31	
Tetrachloroethene	1	0		6.51	40.34	50	20	0.2	0.141	0.113	19.32	
Toluene-d8	1	0	S	6.17	30.20	75	**		1.065	1.072	0.65	
Toluene	1	0		6.20	41.92	50	20	0.4	0.349	0.292	16.16	
1,1,1,2-Tetrachloroethane	1	0		7.01	46.87	50	20		0.143	0.134	6.26	
Chlorobenzene	1	0		6.98	41.92	50	20	0.5	0.392	0.329	16.17	
1,4-Dichlorobenzene-d4	1	0	I	8.25	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.22	48.47	50	20	0.5	0.691	0.670	3.05	
n-Amyl acetate	1	0		7.34	49.63	50	20	0.5	0.713	0.707	0.73	
Bromoform	1	0		7.43	48.51	50	20	0.1	0.171	0.166	2.97	
Ethylbenzene	1	0		7.02	42.90	50	20	0.1	0.246	0.211	14.19	
1,1,2,2-Tetrachloroethane	1	0		7.65	42.93	50	20	0.1	0.191	0.164	14.13	
Bromofluorobenzene	1	0	S	7.59	30.65	75	**		0.796	0.813	2.18	
Styrene	1	0		7.31	43.68	50	20	0.3	0.584	0.510	12.64	
m&p-Xylenes	1	0		7.08	81.93	100	20	0.1	0.385	0.283	18.07	
o-Xylene	1	0		7.31	39.16	50	20	0.3	0.380	0.297	21.69	C1
trans-1,4-Dichloro-2-butene	1	0		7.67	48.51	50	20		0.244	0.237	2.98	
1,3-Dichlorobenzene	1	0		8.22	43.83	50	20	0.6	0.480	0.421	12.34	
1,4-Dichlorobenzene	1	0		8.27	41.47	50	20	0.5	0.509	0.422	17.06	
1,2-Dichlorobenzene	1	0		8.49	41.11	50	20	0.4	0.489	0.402	17.78	
Isopropylbenzene	1	0		7.50	41.62	50	20	0.1	0.881	0.734	16.76	
Cyclohexanone	1	0		7.57	231.27	250	20		0.026	0.021	7.49	
Camphene	1	0		7.67	41.05	50	20		0.350	0.288	17.90	
1,2,3-Trichloropropane	1	0		7.68	44.32	50	20		0.322	0.285	11.36	
2-Chlorotoluene	1	0		7.79	42.30	50	20		0.595	0.504	15.39	
p-Ethyltoluene	1	0		7.79	40.91	50	20		0.954	0.781	18.19	
4-Chlorotoluene	1	0		7.85	41.55	50	20		0.599	0.498	16.90	
n-Propylbenzene	1	0		7.73	39.63	50	20		1.111	0.880	20.75	C1
Bromobenzene	1	0		7.69	45.57	50	20		0.562	0.512	8.86	
1,3,5-Trimethylbenzene	1	0		7.81	39.44	50	20		0.864	0.682	21.11	C1
Butyl methacrylate	1	0		7.82	53.30	50	20	0.5	0.657	0.568	6.60	
t-Butylbenzene	1	0		8.01	41.53	50	20		0.806	0.670	16.94	
1,2,4-Trimethylbenzene	1	0		8.03	41.78	50	20		0.932	0.723	16.43	
sec-Butylbenzene	1	0		8.13	38.33	50	20		1.091	0.836	23.34	C1
4-Isopropyltoluene	1	0		8.21	37.22	50	20		1.003	0.746	25.57	C1
n-Butylbenzene	1	0		8.44	38.07	50	20		1.161	0.884	23.85	C1
p-Diethylbenzene	1	0		8.42	40.19	50	20		0.542	0.436	19.61	
1,2,4,5-Tetramethylbenzene	1	0		8.88	41.46	50	20		0.958	0.794	17.08	
1,2-Dibromo-3-Chloropropane	1	0		8.94	42.44	50	20	0.05	0.074	0.063	15.13	
Camphor	1	0		9.38	455.46	500	20		0.035	0.032	8.91	
Hexachlorobutadiene	1	0		9.52	45.05	50	20		0.370	0.333	9.89	
1,2,4-Trichlorobenzene	1	0		9.43	43.79	50	20	0.2	0.511	0.448	12.41	
1,2,3-Trichlorobenzene	1	0		9.74	47.13	50	20		0.495	0.467	5.73	
Naphthalene	1	0		9.59	44.93	50	20		1.013	0.910	10.14	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: 1M156344.D Instrument: GCMS 1

Cont Calibration Date/Time 12/8/2021 9:23:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.30	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		2.08	40.08	50	20	0.1	0.271	0.217	19.84	
Dichlorodifluoromethane	1	0		2.08	68.70	50	20	0.1	0.149	0.204	37.39	C1
Chloromethane	1	0		2.24	30.21	50	20	0.1	0.224	0.135	39.58	C1
Bromomethane	1	0		2.62	49.36	50	20	0.1	0.090	0.089	1.27	
Vinyl Chloride	1	0		2.34	39.77	50	20	0.1	0.160	0.127	20.45	
Chloroethane	1	0		2.69	40.37	50	20	0.1	0.100	0.075	19.26	
Trichlorofluoromethane	1	0		2.90	52.52	50	20	0.1	0.229	0.241	5.04	
Ethyl ether	1	0		3.12	30.50	50	20	0.5	0.120	0.073	39.00	C1
Furan	1	0		3.15	40.58	50	20	0.5	0.222	0.180	18.84	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.31	46.47	50	20	0.1	0.085	0.079	7.05	
Methylene Chloride	1	0		3.68	44.97	50	20	0.1	0.121	0.099	10.05	
Acrolein	1	0		3.22	146.88	250	20		0.022	0.013	41.25	C1
Acrylonitrile	1	0		3.86	25.61	50	20		0.070	0.036	48.78	C1
Iodomethane	1	0		3.44	44.69	50	20		0.101	0.117	10.61	
Acetone	1	0		3.34	181.13	250	20	0.1	0.048	0.031	27.55	C1
Carbon Disulfide	1	0		3.51	43.00	50	20	0.1	0.344	0.296	14.01	
t-Butyl Alcohol	1	0		3.74	189.71	250	20		0.023	0.017	24.12	C1
n-Hexane	1	0		4.12	30.20	50	20		0.171	0.103	39.60	C1
Di-isopropyl-ether	1	0		4.26	23.77	50	20		0.402	0.191	52.45	C1
1,1-Dichloroethene	1	0		3.32	40.06	50	20	0.1	0.202	0.147	19.87	
Methyl Acetate	1	0		3.59	26.20	50	20	0.1	0.118	0.057	47.61	C1
Methyl-t-butyl ether	1	0		3.90	44.25	50	20	0.1	0.367	0.290	11.51	
1,1-Dichloroethane	1	0		4.23	35.45	50	20	0.2	0.234	0.166	29.09	C1
trans-1,2-Dichloroethene	1	0		3.91	48.90	50	20	0.1	0.101	0.103	2.20	
Ethyl-t-butyl ether	1	0		4.51	40.81	50	20	0.5	0.398	0.325	18.39	
cis-1,2-Dichloroethene	1	0		4.62	33.64	50	20	0.1	0.246	0.165	32.72	C1
Bromochloromethane	1	0		4.77	42.06	50	20		0.138	0.116	15.87	
2,2-Dichloropropane	1	0		4.63	50.96	50	20		0.202	0.206	1.92	
Ethyl acetate	1	0		4.65	23.37	50	20		0.149	0.069	53.26	C1
1,4-Dioxane	1	0		5.71	2725.47	2500	20		0.003	0.003	9.02	
1,1-Dichloropropene	1	0		5.03	52.31	50	20		0.174	0.182	4.62	
Chloroform	1	0		4.81	58.60	50	20	0.2	0.229	0.269	17.20	
Dibromofluoromethane	1	0	S	4.91	31.09	75	**		0.244	0.253	3.62	
Cyclohexane	1	0		4.98	48.82	50	20	0.1	0.260	0.254	2.37	
1,2-Dichloroethane-d4	1	0	S	5.11	30.00	75	**		0.177	0.177	0.00	
1,2-Dichloroethane	1	0		5.15	44.92	50	20	0.1	0.246	0.221	10.17	
2-Butanone	1	0		4.64	29.47	50	20	0.1	0.106	0.062	41.07	C1
1,1,1-Trichloroethane	1	0		4.94	56.51	50	20	0.1	0.240	0.271	13.01	
Carbon Tetrachloride	1	0		5.04	53.66	50	20	0.1	0.212	0.228	7.31	
Vinyl Acetate	1	0		4.25	27.59	50	20		0.403	0.222	44.82	C1
Bromodichloromethane	1	0		5.77	53.13	50	20	0.2	0.200	0.213	6.26	
Methylcyclohexane	1	0		5.63	54.28	50	20	0.1	0.204	0.221	8.55	
Dibromomethane	1	0		5.70	51.34	50	20		0.099	0.101	2.68	
1,2-Dichloropropane	1	0		5.63	41.26	50	20	0.1	0.144	0.118	17.48	
Trichloroethene	1	0		5.50	45.97	50	20	0.2	0.119	0.110	8.06	
Benzene	1	0		5.15	49.24	50	20	0.5	0.527	0.519	1.52	
tert-Amyl methyl ether	1	0		5.20	52.81	50	20		0.345	0.365	5.63	
Chlorobenzene-d5	1	0	I	6.96	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.15	35.43	50	20	0.5	0.289	0.204	29.13	C1
Methyl methacrylate	1	0		5.66	46.11	50	20	0.5	0.132	0.121	7.78	
Dibromochloromethane	1	0		6.64	51.46	50	20	0.1	0.134	0.138	2.93	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: IM156344.D Instrument: GCMS I

Cont Calibration Date/Time 12/8/2021 9:23:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.91	47.31	50	20		0.005	0.006	5.38	
cis-1,3-Dichloropropene	1	0		6.01	55.22	50	20	0.2	0.228	0.252	10.43	
trans-1,3-Dichloropropene	1	0		6.30	57.21	50	20	0.1	0.230	0.263	14.42	
Ethyl methacrylate	1	0		6.32	48.51	50	20	0.5	0.141	0.137	2.98	
1,1,2-Trichloroethane	1	0		6.41	52.53	50	20	0.1	0.118	0.124	5.05	
1,2-Dibromoethane	1	0		6.71	47.86	50	20	0.1	0.124	0.119	4.29	
1,3-Dichloropropane	1	0		6.50	54.65	50	20		0.216	0.236	9.30	
4-Methyl-2-Pentanone	1	0		6.08	32.75	50	20	0.1	0.170	0.111	34.50	C1
2-Hexanone	1	0		6.52	41.84	50	20	0.1	0.135	0.113	16.33	
Tetrachloroethene	1	0		6.51	57.93	50	20	0.2	0.124	0.143	15.85	
Toluene-d8	1	0	S	6.17	31.56	75	**		1.138	1.197	5.19	
Toluene	1	0		6.21	53.54	50	20	0.4	0.358	0.383	7.08	
1,1,1,2-Tetrachloroethane	1	0		7.01	53.14	50	20		0.134	0.142	6.27	
Chlorobenzene	1	0		6.98	53.68	50	20	0.5	0.391	0.420	7.37	
1,4-Dichlorobenzene-d4	1	0	I	8.25	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.23	33.14	50	20	0.5	0.529	0.351	33.72	C1
n-Amyl acetate	1	0		7.34	41.66	50	20	0.5	0.416	0.347	16.68	
Bromoform	1	0		7.43	53.48	50	20	0.1	0.167	0.178	6.96	
Ethylbenzene	1	0		7.02	50.27	50	20	0.1	0.257	0.259	0.55	
1,1,2,2-Tetrachloroethane	1	0		7.65	49.14	50	20	0.1	0.240	0.236	1.73	
Bromofluorobenzene	1	0	S	7.59	31.36	75	**		0.781	0.817	4.54	
Styrene	1	0		7.31	51.41	50	20	0.3	0.643	0.661	2.81	
m&p-Xylenes	1	0		7.08	99.93	100	20	0.1	0.404	0.377	0.07	
o-Xylene	1	0		7.31	49.16	50	20	0.3	0.389	0.382	1.67	
trans-1,4-Dichloro-2-butene	1	0		7.67	40.55	50	20		0.168	0.136	18.91	
1,3-Dichlorobenzene	1	0		8.22	49.61	50	20	0.6	0.498	0.494	0.78	
1,4-Dichlorobenzene	1	0		8.27	48.31	50	20	0.5	0.525	0.507	3.37	
1,2-Dichlorobenzene	1	0		8.49	48.07	50	20	0.4	0.491	0.472	3.85	
Isopropylbenzene	1	0		7.50	48.30	50	20	0.1	1.044	1.008	3.41	
Cyclohexanone	1	0		7.57	210.16	250	20		0.022	0.017	15.94	
Camphene	1	0		7.67	54.55	50	20		0.376	0.410	9.11	
1,2,3-Trichloropropane	1	0		7.68	47.31	50	20		0.370	0.350	5.38	
2-Chlorotoluene	1	0		7.79	50.46	50	20		0.677	0.683	0.91	
p-Ethyltoluene	1	0		7.79	51.35	50	20		1.065	1.094	2.71	
4-Chlorotoluene	1	0		7.85	49.35	50	20		0.692	0.683	1.30	
n-Propylbenzene	1	0		7.73	48.17	50	20		1.311	1.263	3.66	
Bromobenzene	1	0		7.70	50.17	50	20		0.659	0.661	0.34	
1,3,5-Trimethylbenzene	1	0		7.81	47.97	50	20		0.963	0.923	4.06	
Butyl methacrylate	1	0		7.82	49.74	50	20	0.5	0.380	0.333	0.52	
t-Butylbenzene	1	0		8.01	46.54	50	20		0.907	0.845	6.92	
1,2,4-Trimethylbenzene	1	0		8.04	46.84	50	20		1.005	0.941	6.32	
sec-Butylbenzene	1	0		8.13	48.55	50	20		1.220	1.185	2.90	
4-Isopropyltoluene	1	0		8.21	47.55	50	20		1.112	0.987	4.90	
n-Butylbenzene	1	0		8.44	51.21	50	20		1.231	1.261	2.42	
p-Diethylbenzene	1	0		8.43	46.79	50	20		0.612	0.573	6.42	
1,2,4,5-Tetramethylbenzene	1	0		8.89	51.65	50	20		0.950	0.982	3.31	
1,2-Dibromo-3-Chloropropane	1	0		8.94	47.68	50	20	0.05	0.078	0.074	4.64	
Camphor	1	0		9.38	505.01	500	20		0.037	0.037	1.00	
Hexachlorobutadiene	1	0		9.52	68.54	50	20		0.301	0.413	37.09	C1
1,2,4-Trichlorobenzene	1	0		9.43	59.74	50	20	0.2	0.447	0.535	19.48	
1,2,3-Trichlorobenzene	1	0		9.74	57.05	50	20		0.439	0.501	14.09	
Naphthalene	1	0		9.59	46.78	50	20		0.963	0.901	6.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M160933.D **Instrument:** GCMS 2

Cont Calibration Date/Time 12/8/2021 11:04:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.10	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.70	21.91	20	20	0.1	0.444	0.487	9.57	
Dichlorodifluoromethane	1	0		1.68	22.11	20	20	0.1	0.352	0.389	10.55	
Chloromethane	1	0		1.86	18.60	20	20	0.1	0.363	0.337	7.01	
Bromomethane	1	0		2.26	14.85	20	20	0.1	0.241	0.179	25.74	C1
Vinyl Chloride	1	0		1.95	20.77	20	20	0.1	0.399	0.414	3.87	
Chloroethane	1	0		2.34	21.78	20	20	0.1	0.257	0.280	8.91	
Trichlorofluoromethane	1	0		2.56	21.27	20	20	0.1	0.630	0.671	6.37	
Ethyl ether	1	0		2.80	22.44	20	20	0.5	0.253	0.283	12.18	
Furan	1	0		2.84	22.56	20	20	0.5	0.567	0.640	12.78	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	18.84	20	20	0.1	0.256	0.241	5.78	
Methylene Chloride	1	0		3.42	23.84	20	20	0.1	0.291	0.347	19.22	
Acrolein	1	0		2.92	89.94	100	20		0.055	0.050	10.06	
Acrylonitrile	1	0		3.62	21.47	20	20		0.149	0.160	7.37	
Iodomethane	1	0		3.15	17.79	20	20		0.240	0.243	11.04	
Acetone	1	0		3.04	102.26	100	20	0.1	0.130	0.133	2.26	
Carbon Disulfide	1	0		3.21	21.34	20	20	0.1	0.749	0.799	6.68	
t-Butyl Alcohol	1	0		3.48	101.49	100	20		0.039	0.040	1.49	
n-Hexane	1	0		3.87	18.44	20	20		0.278	0.256	7.79	
Di-isopropyl-ether	1	0		4.03	22.58	20	20		0.968	1.092	12.89	
1,1-Dichloroethene	1	0		3.01	22.98	20	20	0.1	0.432	0.497	14.92	
Methyl Acetate	1	0		3.32	24.04	20	20	0.1	0.335	0.403	20.18	
Methyl-t-butyl ether	1	0		3.64	23.03	20	20	0.1	0.777	0.895	15.13	
1,1-Dichloroethane	1	0		4.00	23.84	20	20	0.2	0.505	0.602	19.21	
trans-1,2-Dichloroethene	1	0		3.65	22.61	20	20	0.1	0.296	0.334	13.04	
Ethyl-t-butyl ether	1	0		4.29	23.80	20	20	0.5	0.796	0.947	18.98	
cis-1,2-Dichloroethene	1	0		4.41	23.15	20	20	0.1	0.505	0.584	15.74	
Bromochloromethane	1	0		4.56	25.76	20	20		0.260	0.335	28.81	C1
2,2-Dichloropropane	1	0		4.42	20.43	20	20		0.388	0.396	2.12	
Ethyl acetate	1	0		4.43	23.40	20	20		0.385	0.451	16.98	
1,4-Dioxane	1	0		5.49	956.01	1000	20		0.005	0.005	4.40	
1,1-Dichloropropene	1	0		4.82	23.36	20	20		0.387	0.453	16.82	
Chloroform	1	0		4.60	24.06	20	20	0.2	0.509	0.613	20.31	
Dibromofluoromethane	1	0	S	4.70	29.35	30	**		0.297	0.291	2.17	
Cyclohexane	1	0		4.77	21.60	20	20	0.1	0.392	0.423	8.01	
1,2-Dichloroethane-d4	1	0	S	4.91	30.92	30	**		0.142	0.147	3.06	
1,2-Dichloroethane	1	0		4.95	23.52	20	20	0.1	0.416	0.489	17.58	
2-Butanone	1	0		4.41	23.52	20	20	0.1	0.189	0.222	17.61	
1,1,1-Trichloroethane	1	0		4.73	23.20	20	20	0.1	0.459	0.533	15.99	
Carbon Tetrachloride	1	0		4.83	21.58	20	20	0.1	0.396	0.427	7.90	
Vinyl Acetate	1	0		4.03	19.18	20	20		1.077	1.033	4.11	
Bromodichloromethane	1	0		5.57	25.34	20	20	0.2	0.378	0.479	26.68	C1
Methylcyclohexane	1	0		5.42	21.14	20	20	0.1	0.340	0.359	5.69	
Dibromomethane	1	0		5.49	21.64	20	20		0.229	0.247	8.20	
1,2-Dichloropropane	1	0		5.43	25.45	20	20	0.1	0.293	0.373	27.25	C1
Trichloroethene	1	0		5.30	22.16	20	20	0.2	0.341	0.377	10.80	
Benzene	1	0		4.95	23.96	20	20	0.5	1.103	1.321	19.78	
tert-Amyl methyl ether	1	0		4.99	24.06	20	20		0.752	0.904	20.29	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.95	23.35	20	20	0.5	0.694	0.810	16.75	
Methyl methacrylate	1	0		5.45	26.31	20	20	0.5	0.306	0.402	31.57	C1
Dibromochloromethane	1	0		6.42	22.52	20	20	0.1	0.334	0.376	12.60	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB Data File: 2M160933.D Instrument: GCMS 2

Cont Calibration Date/Time 12/8/2021 11:04:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.71	19.45	20	20		0.013	0.009	2.77	
cis-1,3-Dichloropropene	1	0		5.80	23.19	20	20	0.2	0.461	0.534	15.95	
trans-1,3-Dichloropropene	1	0		6.09	22.13	20	20	0.1	0.430	0.476	10.65	
Ethyl methacrylate	1	0		6.10	21.59	20	20	0.5	0.318	0.344	7.96	
1,1,2-Trichloroethane	1	0		6.20	23.65	20	20	0.1	0.283	0.335	18.23	
1,2-Dibromoethane	1	0		6.49	23.50	20	20	0.1	0.324	0.380	17.52	
1,3-Dichloropropane	1	0		6.29	23.61	20	20		0.482	0.569	18.04	
4-Methyl-2-Pentanone	1	0		5.87	22.77	20	20	0.1	0.396	0.451	13.83	
2-Hexanone	1	0		6.31	21.82	20	20	0.1	0.296	0.323	9.12	
Tetrachloroethene	1	0		6.29	20.06	20	20	0.2	0.275	0.275	0.28	
Toluene-d8	1	0	S	5.95	30.02	30	**		1.120	1.121	0.08	
Toluene	1	0		5.99	23.12	20	20	0.4	0.745	0.861	15.61	
1,1,1,2-Tetrachloroethane	1	0		6.78	21.61	20	20		0.312	0.337	8.07	
Chlorobenzene	1	0		6.75	22.51	20	20	0.5	0.853	0.960	12.54	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	22.99	20	20	0.5	1.184	1.361	14.94	
n-Amyl acetate	1	0		7.11	21.44	20	20	0.5	1.184	1.269	7.18	
Bromoform	1	0		7.20	22.90	20	20	0.1	0.475	0.544	14.51	
Ethylbenzene	1	0		6.79	21.78	20	20	0.1	0.763	0.831	8.89	
1,1,2,2-Tetrachloroethane	1	0		7.42	24.73	20	20	0.1	0.823	1.017	23.65	C1
Bromofluorobenzene	1	0	S	7.37	30.87	30	**		0.836	0.860	2.88	
Styrene	1	0		7.07	22.55	20	20	0.3	1.783	2.011	12.76	
m&p-Xylenes	1	0		6.85	46.61	40	20	0.1	1.045	1.218	16.52	
o-Xylene	1	0		7.07	22.52	20	20	0.3	1.076	1.211	12.58	
trans-1,4-Dichloro-2-butene	1	0		7.44	20.65	20	20		0.323	0.333	3.25	
1,3-Dichlorobenzene	1	0		7.99	20.88	20	20	0.6	1.154	1.205	4.38	
1,4-Dichlorobenzene	1	0		8.03	21.00	20	20	0.5	1.176	1.235	5.01	
1,2-Dichlorobenzene	1	0		8.26	21.27	20	20	0.4	1.080	1.149	6.36	
Isopropylbenzene	1	0		7.26	23.73	20	20	0.1	2.333	2.768	18.64	
Cyclohexanone	1	0		7.34	150.42	100	20		0.040	0.060	50.42	C1
Camphene	1	0		7.43	23.34	20	20		0.538	0.628	16.71	
1,2,3-Trichloropropane	1	0		7.46	22.47	20	20		1.023	1.149	12.34	
2-Chlorotoluene	1	0		7.56	22.14	20	20		1.439	1.593	10.72	
p-Ethyltoluene	1	0		7.55	22.64	20	20		2.161	2.446	13.18	
4-Chlorotoluene	1	0		7.62	22.50	20	20		1.431	1.610	12.51	
n-Propylbenzene	1	0		7.49	23.66	20	20		2.568	3.038	18.32	
Bromobenzene	1	0		7.46	23.45	20	20		1.499	1.758	17.26	
1,3,5-Trimethylbenzene	1	0		7.57	23.30	20	20		1.749	2.038	16.52	
Butyl methacrylate	1	0		7.58	22.00	20	20	0.5	0.852	0.937	10.00	
t-Butylbenzene	1	0		7.78	22.15	20	20		1.731	1.917	10.74	
1,2,4-Trimethylbenzene	1	0		7.79	22.56	20	20		1.808	2.039	12.80	
sec-Butylbenzene	1	0		7.90	22.80	20	20		2.011	2.293	14.01	
4-Isopropyltoluene	1	0		7.96	21.65	20	20		1.740	1.883	8.23	
n-Butylbenzene	1	0		8.20	22.88	20	20		1.677	1.918	14.41	
p-Diethylbenzene	1	0		8.18	22.31	20	20		0.906	1.011	11.55	
1,2,4,5-Tetramethylbenzene	1	0		8.65	22.24	20	20		1.235	1.373	11.18	
1,2-Dibromo-3-Chloropropane	1	0		8.71	19.45	20	20	0.05	0.196	0.190	2.73	
Camphor	1	0		9.14	203.85	200	20		0.078	0.080	1.92	
Hexachlorobutadiene	1	0		9.28	21.24	20	20		0.191	0.183	6.19	
1,2,4-Trichlorobenzene	1	0		9.20	21.03	20	20	0.2	0.467	0.491	5.13	
1,2,3-Trichlorobenzene	1	0		9.50	20.50	20	20		0.378	0.388	2.48	
Naphthalene	1	0		9.36	20.89	20	20		1.466	1.531	4.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1120805 0085

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M160576.D Method: EPA 8260D

Analysis Date/Time: 12/02/21 15:35

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	585445	5.10	547565	6.73	260896	8.02								
Eval File Area Limit:	292722-1170890		273782-1095130		130448-521792									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									

Data File	Sample						
2M160574.D	CAL @ 0.5 PPB	600549	5.10	554092	6.73	266071	8.02
2M160575.D	CAL @ 1 PPB	641281	5.10	598749	6.73	282115	8.02
2M160576.D	CAL @ 20 PPB	585445	5.10	547565	6.73	260896	8.02
2M160580.D	CAL @ 5 PPB	584196	5.10	556633	6.73	267910	8.02
2M160582.D	CAL @ 10 PPB	580539	5.10	542235	6.73	269033	8.02
2M160584.D	CAL @ 50 PPB	560870	5.10	526892	6.73	268560	8.02
2M160587.D	CAL @ 100 PPB	574491	5.10	544000	6.73	283020	8.02
2M160590.D	CAL @ 250 PPB	582673	5.10	588179	6.73	320809	8.02
2M160593.D	CAL @ 500 PPB	574311	5.10	597475	6.73	345039	8.02
2M160598.D	ICV	560750	5.10	513039	6.73	256913	8.02
2M160599.D	STD	602768	5.10	552399	6.73	270960	8.02
2M160600.D	BLK	555987	5.10	529248	6.73	243985	8.02
2M160601.D	DAILY BLANK	603234	5.10	561361	6.73	268005	8.02
2M160602.D	AD27482-005(50X)	589617	5.10	559663	6.73	261190	8.02
2M160603.D	AD27482-004(50X)	582210	5.10	537683	6.73	253100	8.02
2M160604.D	MBS98165	582805	5.10	549034	6.73	270287	8.02
2M160605.D	AD27565-017(50X)(T:	539788	5.10	499518	6.73	246495	8.02
2M160606.D	AD27565-017(50X)(T:	584213	5.10	546157	6.73	261298	8.02
2M160607.D	AD27565-017(50X)(T)	566183	5.10	525060	6.73	250546	8.02
2M160608.D	AD27565-019(50X)(T)	636999	5.10	586922	6.73	278444	8.02
2M160609.D	AD27575-001(50X)(T)	561544	5.10	526540	6.73	261072	8.02
2M160610.D	EF-1-V-362558(12022	548615	5.10	511491	6.73	242838	8.02

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0086

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M156220.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 17:59

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	264456	5.30	257626	6.96	206018	8.25								
Eval File Area Limit:	132228-528912		128813-515252		103009-412036									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.75-8.75									

Data File	Sample						
1M156216.D	CAL @ 0.5 PPB	282622	5.30	275100	6.96	205917	8.25
1M156217.D	CAL @ 1 PPB	262025	5.30	257651	6.96	201598	8.25
1M156218.D	CAL @ 2 PPB	257497	5.30	257622	6.96	201848	8.26
1M156219.D	CAL @ 5 PPB	278915	5.30	260795	6.96	199302	8.25
1M156220.D	CAL @ 20 PPB	264456	5.30	257626	6.96	206018	8.25
1M156221.D	CAL @ 50 PPB	252679	5.30	245583	6.96	208567	8.25
1M156222.D	CAL @ 500 PPB	274432	5.30	306782	6.96	336629	8.26
1M156224.D	CAL @ 250 PPB	301240	5.30	310623	6.96	304749	8.26
1M156226.D	CAL @ 100 PPB	318147	5.30	318292	6.96	266668	8.25
1M156231.D	ICV	223505	5.30	233774	6.96	189278	8.26
1M156232.D	BLK	243576	5.30	249259	6.96	194865	8.25
1M156233.D	STD	233991	5.30	229870	6.96	192214	8.25

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0087

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M156236.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 23:15

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	192170	5.30	197794	6.96	171424	8.25								
Eval File Area Limit:	96085-384340		98897-395588		85712-342848									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.75-8.75									

Data File	Sample						
1M156238.D	std	177714	5.30	174452	6.95	168975	8.25
1M156242.D	DAILY BLANK	183909	5.30	186133	6.96	148550	8.25
1M156243.D	AD27639-005	173665	5.30	170454	6.96	130237	8.25
1M156244.D	AD27622-003	137194	5.30	105248	6.96	51463 A	8.26
1M156245.D	AD27622-005	123696	5.30	87820 A	6.96	44101 A	8.25
1M156246.D	AD27639-005(MS)	146126	5.30	146237	6.96	119273	8.25
1M156247.D	AD27639-005(MSD)	155152	5.31	157339	6.96	130240	8.25
1M156248.D	MBS98158	156576	5.30	153244	6.96	138883	8.25
1M156249.D	BLK	162291	5.30	171191	6.96	141055	8.25
1M156250.D	AD27633-001	152416	5.30	161911	6.96	123228	8.26
1M156251.D	AD27633-005	159818	5.30	156878	6.96	119302	8.25
1M156252.D	AD27633-003	152614	5.30	156963	6.96	117753	8.26
1M156253.D	AD27634-001	148487	5.31	150691	6.96	111465	8.25
1M156254.D	AD27634-005	141956	5.30	148737	6.96	109472	8.25
1M156255.D	AD27634-003	149285	5.30	151021	6.96	105709	8.26
1M156256.D	AD27635-001	141379	5.30	147687	6.96	107911	8.26
1M156257.D	AD27635-005	138388	5.30	140031	6.96	100675	8.25
1M156258.D	AD27635-003	135269	5.30	135946	6.96	101609	8.25
1M156259.D	AD27636-001	134278	5.30	145089	6.96	104665	8.25
1M156260.D	AD27636-005	135666	5.30	139812	6.96	105691	8.25
1M156261.D	AD27636-003	137242	5.30	138712	6.96	103611	8.25
1M156262.D	AD27639-003	129831	5.30	137843	6.96	98147	8.25
1M156263.D	AD27657-013	124152	5.30	128544	6.96	100391	8.26
1M156264.D	AD27657-014	126073	5.30	136706	6.96	107828	8.25

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0088

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M156289.D Method: EPA 8260D

Analysis Date/Time: 12/07/21 16:28

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	260386	5.30	241671	6.96	168020	8.26								
Eval File Area Limit:	130193-520772		120836-483342		84010-336040									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.76-8.76									

Data File	Sample						
1M156285.D	CAL @ 0.5 PPB	252137	5.30	241489	6.96	162458	8.26
1M156286.D	CAL @ 1 PPB	253366	5.30	239818	6.96	164919	8.26
1M156287.D	CAL @ 2 PPB	252205	5.30	242167	6.96	168238	8.26
1M156288.D	CAL @ 5 PPB	254703	5.30	238440	6.96	164119	8.26
1M156289.D	CAL @ 20 PPB	260386	5.30	241671	6.96	168020	8.26
1M156290.D	CAL @ 50 PPB	262810	5.30	241823	6.96	171977	8.25
1M156291.D	CAL @ 100 PPB	271927	5.30	256773	6.96	190613	8.26
1M156292.D	CAL @ 250 PPB	288091	5.30	271532	6.96	210916	8.26
1M156293.D	CAL @ 500 PPB	302375	5.30	291078	6.96	227773	8.26
1M156298.D	STD	321032	5.31	276243	6.96	206428	8.26
1M156299.D	ICV	291673	5.30	263406	6.96	184232	8.25
1M156302.D	STD	86206A	5.30	86464A	6.95	76758A	8.25
1M156304.D	BLK	103720A	5.31	103915A	6.96	79835A	8.26
1M156305.D	BLK	101801A	5.30	101114A	6.96	78474A	8.25
1M156311.D	BLK	321655	5.31	279415	6.96	185828	8.25

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0089

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M156344.D Method: EPA 8260D

Analysis Date/Time: 12/08/21 21:23

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	280683	5.30	248553	6.96	199908	8.25								
Eval File Area Limit:	140342-561366		124276-497106		99954-399816									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.75-8.75									

Data File	Sample						
1M156343.D	50 PPB	267761	5.30	260574	6.96	198444	8.25
1M156346.D	BLK	261386	5.30	264202	6.95	185775	8.25
1M156347.D	BLK	253319	5.30	250995	6.96	183871	8.26
1M156348.D	BLK	247332	5.30	240393	6.96	180398	8.25
1M156349.D	DAILY BLANK	250500	5.30	237948	6.96	175222	8.25
1M156350.D	AD27654-002	286571	5.30	276490	6.96	204260	8.25
1M156351.D	AD27634-001(MS)	263783	5.30	240881	6.96	179056	8.26
1M156352.D	AD27634-001(MSD)	224511	5.30	208190	6.96	161226	8.25
1M156353.D	MBS98178	233413	5.30	211390	6.96	170875	8.25
1M156354.D	BLK	259012	5.30	248021	6.96	188795	8.25
1M156355.D	BLK	259367	5.30	250863	6.96	191037	8.25
1M156356.D	BLK	261998	5.30	252908	6.96	192822	8.25
1M156357.D	AD27553-002	246906	5.31	237407	6.96	180141	8.26
1M156358.D	AD27733-007	250104	5.30	239400	6.96	177285	8.25
1M156359.D	AD27785-001	247010	5.30	239533	6.96	182481	8.25
1M156360.D	AD27785-002	242115	5.30	235073	6.96	183414	8.25
1M156361.D	AD27673-010	245445	5.30	243481	6.96	187039	8.25
1M156362.D	AD27673-009	270434	5.30	265656	6.96	198550	8.26
1M156363.D	AD27673-008	305078	5.30	290748	6.96	210398	8.26
1M156364.D	AD27673-007	322328	5.30	306096	6.96	218526	8.26
1M156365.D	AD27673-006	257373	5.30	254023	6.96	191890	8.25
1M156366.D	BLK	353266	5.30	335937	6.96	257986	8.25
1M156367.D	AD27680-001	609465 A	5.30	494209	6.96	273206	8.26
1M156368.D	AD27680-003	565189 A	5.30	434820	6.96	207284	8.26
1M156369.D	AD27774-001	545705	5.30	638889 A	6.96	423261 A	8.26
1M156370.D	AD27774-002	283895	5.30	648569 A	6.96	439134 A	8.25
1M156371.D	AD27728-001	681714 A	5.30	599320 A	6.96	343256	8.25
1M156372.D	AD27728-005	312882	5.30	627550 A	6.96	389967	8.25
1M156373.D	AD27728-009	692199 A	5.30	613253 A	6.96	342634	8.26
1M156374.D	AD27728-013	225813	5.30	238519	6.96	180782	8.26
1M156375.D	AD27614-014	570502 A	5.30	521005 A	6.96	335628	8.25
1M156376.D	AD27614-016	494668	5.30	371577	6.96	166020	8.26

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0090

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M156344.D Method: EPA 8260D

Analysis Date/Time: 12/08/21 21:23

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	280683	5.30	248553	6.96	199908	8.25								
Eval File Area Limit:	140342-561366		124276-497106		99954-399816									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.75-8.75									

Data File	Sample						
1M156377.D	AD27614-011	53002 A	5.31	53405 A	6.96	38435 A	8.25
1M156378.D	AD27614-015	170421	5.30	317169	6.96	129515	8.26
1M156379.D	BLK	697139 A	5.30	649287 A	6.96	422752 A	8.26

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0091

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M160933.D Method: EPA 8260D

Analysis Date/Time: 12/08/21 23:04

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	452580	5.10	439473	6.73	211369	8.02								
Eval File Area Limit:	226290-905160		219736-878946		105684-422738									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									

Data File	Sample						
2M160934.D	20 PPB	471675	5.10	465398	6.73	230379	8.02
2M160935.D	BLK	490213	5.10	478557	6.73	234391	8.02
2M160936.D	BLK	465691	5.10	474937	6.73	227611	8.02
2M160937.D	DAILY BLANK	458868	5.09	467792	6.73	227282	8.02
2M160938.D	DAILY BLANK	465897	5.09	461516	6.73	233725	8.02
2M160940.D	AD27627-005	449599	5.10	460232	6.73	230788	8.02
2M160941.D	AD27706-001	479284	5.10	476484	6.73	223226	8.02
2M160942.D	AD27673-013	480768	5.10	484040	6.73	257504	8.02
2M160943.D	AD27673-011(10X)	478476	5.09	483452	6.73	241113	8.02
2M160944.D	AD27707-001(10X)	472004	5.10	454715	6.73	230643	8.02
2M160946.D	AD27763-003(MS)	432320	5.10	426283	6.73	215510	8.02
2M160947.D	AD27763-003(MSD)	457860	5.10	465660	6.73	228980	8.02
2M160948.D	MBS98173	473210	5.10	469322	6.73	230751	8.02
2M160949.D	MBS98174	506149	5.09	517986	6.73	258347	8.02
2M160950.D	EF-1-V-362998(12072	542508	5.10	543932	6.73	247856	8.02
2M160951.D	BLK	461845	5.10	458684	6.73	224384	8.02
2M160952.D	AD27748-001	472973	5.10	479725	6.73	233821	8.02
2M160954.D	AD27673-002	486783	5.09	498572	6.73	246728	8.02
2M160955.D	AD27673-003	450919	5.09	455513	6.73	230223	8.02
2M160956.D	AD27673-004	468009	5.09	468098	6.73	233990	8.02
2M160957.D	AD27673-001(400uL)	479817	5.09	501529	6.73	253947	8.02
2M160958.D	AD27673-005(80uL)	495321	5.09	502633	6.73	242217	8.02
2M160959.D	AD27774-003(80uL)	493186	5.09	491928	6.73	302296	8.02
2M160960.D	AD27673-006(MS)	432048	5.09	418044	6.73	219488	8.02
2M160961.D	AD27673-006(MSD)	459355	5.09	468055	6.73	245037	8.02
2M160962.D	AD27673-006	468720	5.09	480865	6.73	248437	8.02
2M160965.D	BLK	486908	5.10	493751	6.73	242609	8.02
2M160966.D	AD27673-013(10X)	483653	5.10	482700	6.73	226059	8.02
2M160967.D	AD27673-011(20X)	478554	5.10	478400	6.73	238574	8.02

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27774-001
Client Id: SB-009SS
Data File: 9M110206.D
Analysis Date: 12/19/21 17:08
Date Rec/Extracted: 12/08/21-12/19/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.038	U	**50-32-8**	**Benzo[a]pyrene**	**0.038**	**0.092**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.038	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.038**	**0.11**
122-66-7	1,2-Diphenylhydrazine	0.038	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.038**	**0.066**
123-91-1	1,4-Dioxane	0.019	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.038**	**0.042**
58-90-2	2,3,4,6-Tetrachlorophenol	0.038	U	100-51-6	Benzyl alcohol	0.038	U
95-95-4	2,4,5-Trichlorophenol	0.038	U	111-91-1	bis(2-Chloroethoxy)methan	0.038	U
88-06-2	2,4,6-Trichlorophenol	0.038	U	111-44-4	bis(2-Chloroethyl)ether	0.0095	U
120-83-2	2,4-Dichlorophenol	0.014	U	108-60-1	bis(2-chloroisopropyl)ether	0.038	U
105-67-9	2,4-Dimethylphenol	0.018	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.038	U
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.038	U
121-14-2	2,4-Dinitrotoluene	0.038	U	105-60-2	Caprolactam	0.038	U
606-20-2	2,6-Dinitrotoluene	0.038	U	86-74-8	Carbazole	0.038	U
91-58-7	2-Chloronaphthalene	0.038	U	**218-01-9**	**Chrysene**	**0.038**	**0.080**
95-57-8	2-Chlorophenol	0.038	U	53-70-3	Dibenzo[a,h]anthracene	0.038	U
91-57-6	2-Methylnaphthalene	0.038	U	132-64-9	Dibenzofuran	0.0096	U
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.038	U
88-74-4	2-Nitroaniline	0.038	U	131-11-3	Dimethylphthalate	0.038	U
88-75-5	2-Nitrophenol	0.038	U	84-74-2	Di-n-butylphthalate	0.043	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.038	U
91-94-1	3,3'-Dichlorobenzidine	0.038	U	**206-44-0**	**Fluoranthene**	**0.038**	**0.14**
99-09-2	3-Nitroaniline	0.038	U	86-73-7	Fluorene	0.038	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.038	U
101-55-3	4-Bromophenyl-phenylether	0.038	U	87-68-3	Hexachlorobutadiene	0.038	U
59-50-7	4-Chloro-3-methylphenol	0.038	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.038	U
7005-72-3	4-Chlorophenyl-phenylether	0.038	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.038**	**0.057**
100-01-6	4-Nitroaniline	0.038	U	78-59-1	Isophorone	0.038	U
100-02-7	4-Nitrophenol	0.038	U	91-20-3	Naphthalene	0.011	U
83-32-9	Acenaphthene	0.038	U	98-95-3	Nitrobenzene	0.038	U
208-96-8	Acenaphthylene	0.038	U	62-75-9	N-Nitrosodimethylamine	0.047	U
98-86-2	Acetophenone	0.038	U	621-64-7	N-Nitroso-di-n-propylamine	0.014	U
120-12-7	Anthracene	0.038	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.038	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.41	U	**85-01-8**	**Phenanthrene**	**0.038**	**0.069**
92-87-5	Benzidine	0.067	U	108-95-2	Phenol	0.038	U
56-55-3	**Benzo[a]anthracene**	**0.038**	**0.087**	**129-00-0**	**Pyrene**	**0.038**	**0.15**

Worksheet #: 622224

Total Target Concentration 0.89

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

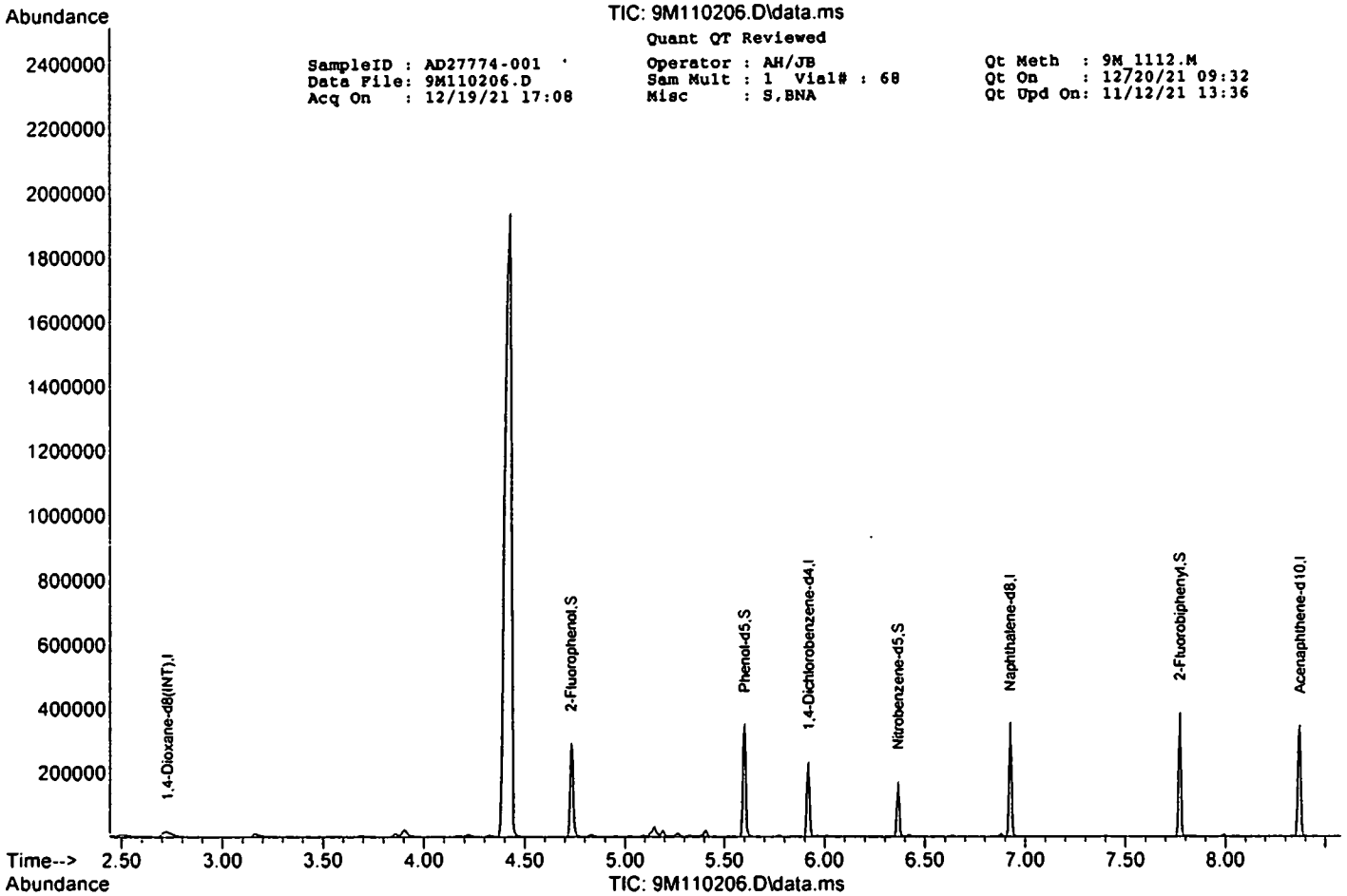
Quantitation Report (QT Reviewed)

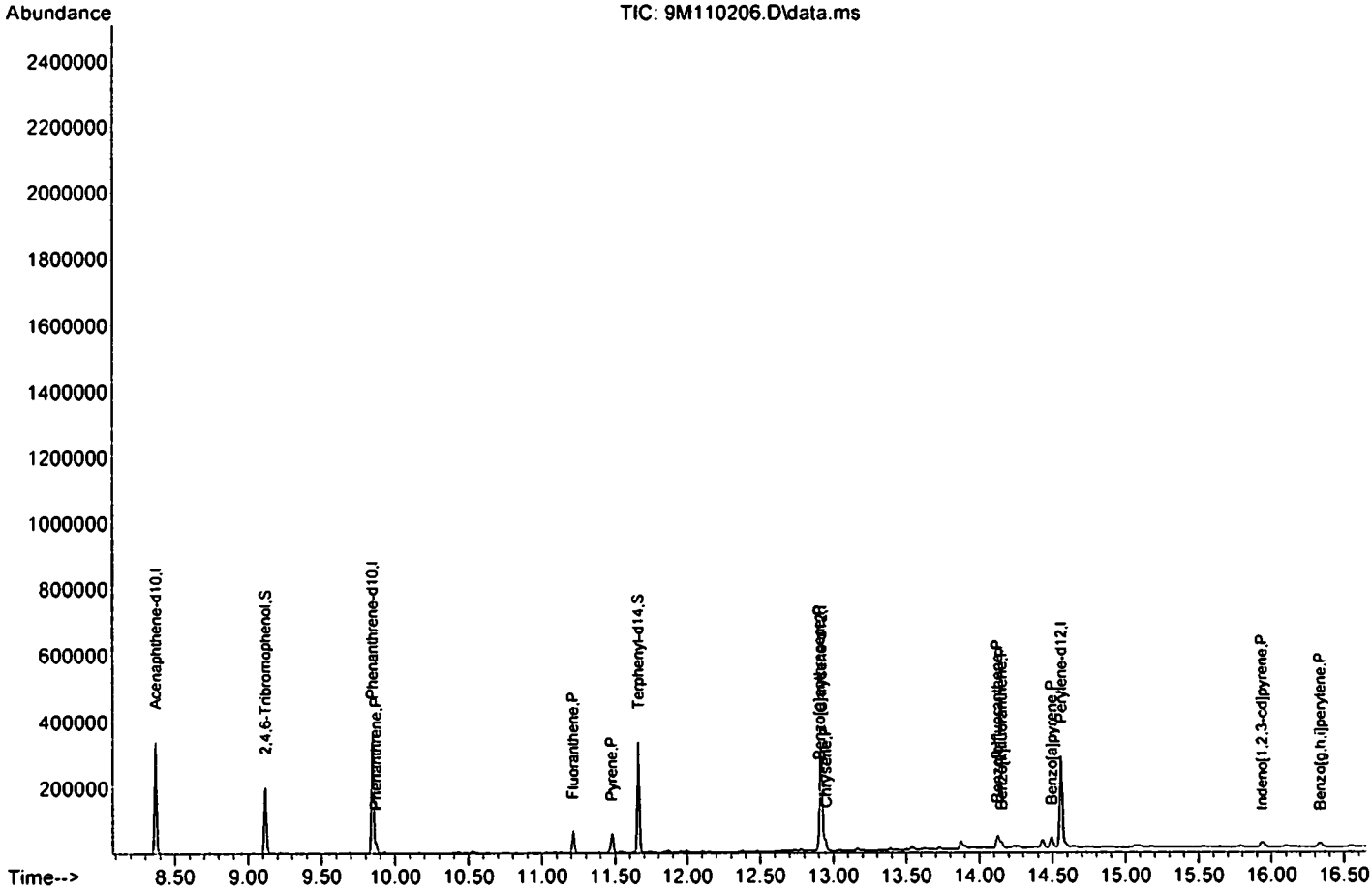
SampleID : AD27774-001 Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110206.D Sam Mult : 1 Vial# : 68 Qt On : 12/20/21 09:32
Acq On : 12/19/21 17:08 Misc : S,BNA Qt Upd On: 11/12/21 13:36

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-1921\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.725	96	20730	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.919	152	34573	40.00	ng	-0.01
31) Naphthalene-d8	6.925	136	138430	40.00	ng	-0.01
50) Acenaphthene-d10	8.372	164	69531	40.00	ng	-0.01
77) Phenanthrene-d10	9.848	188	133891	40.00	ng	0.00
91) Chrysene-d12	12.919	240	112380	40.00	ng	0.00
103) Perylene-d12	14.560	264	117343	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.731	112	93707	78.48	ng	0.00
Spiked Amount 100.000			Recovery = 78.48%			
16) Phenol-d5	5.601	99	123602	80.80	ng	0.00
Spiked Amount 100.000			Recovery = 80.80%			
32) Nitrobenzene-d5	6.366	128	21880	44.04	ng	-0.01
Spiked Amount 50.000			Recovery = 88.08%			
55) 2-Fluorobiphenyl	7.772	172	104351	40.44	ng	-0.01
Spiked Amount 50.000			Recovery = 80.88%			
80) 2,4,6-Tribromophenol	9.119	330	25636	74.13	ng	0.00
Spiked Amount 100.000			Recovery = 74.13%			
94) Terphenyl-d14	11.660	244	95817	51.04	ng	0.00
Spiked Amount 50.000			Recovery = 102.08%			
Target Compounds						Qvalue
86) Phenanthrene	9.872	178	13450	3.6251	ng	99
90) Fluoranthene	11.213	202	28766	7.3639	ng	98
92) Pyrene	11.478	202	27948	7.7221	ng	97
100) Benzo[a]anthracene	12.907	228	16214m	4.5884	ng	
101) Chrysene	12.948	228	14572m	4.2235	ng	
105) Benzo[b]fluoranthene	14.124	252	20313m	6.0236	ng	
106) Benzo[k]fluoranthene	14.154	252	7400m	2.2356	ng	
107) Benzo[a]pyrene	14.495	252	15535	4.8729	ng	92
108) Indeno[1,2,3-cd]pyrene	15.936	276	11007	3.0225	ng	81
110) Benzo[g,h,i]perylene	16.336	276	10532	3.4869	ng	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 9M110206.D\data.ms
Quant QT Reviewed
SampleID : AD27774-001
Data File: 9M110206.D
Acq On : 12/19/21 17:08
Operator : AH/JB
Sam Mult : 1 Vial# : 68
Misc : S,BNA
Qt Meth : 9M_1112.M
Qt On : 12/20/21 09:32
Qt Upd On: 11/12/21 13:36
Abundance
Time-->
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I


TIC: 9M110206.D\data.ms
Abundance
Time-->
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27774-002
Client Id: SB-010SS
Data File: 5M118902.D
Analysis Date: 12/19/21 18:51
Date Rec/Extracted: 12/08/21-12/19/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.039	U	50-32-8	Benzo[a]pyrene	0.039	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.039	U	205-99-2	Benzo[b]fluoranthene	0.039	U
122-66-7	1,2-Diphenylhydrazine	0.039	U	191-24-2	Benzo[g,h,i]perylene	0.039	U
123-91-1	1,4-Dioxane	0.020	U	207-08-9	Benzo[k]fluoranthene	0.039	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.039	U	100-51-6	Benzyl alcohol	0.039	U
95-95-4	2,4,5-Trichlorophenol	0.039	U	111-91-1	bis(2-Chloroethoxy)methan	0.039	U
88-06-2	2,4,6-Trichlorophenol	0.039	U	111-44-4	bis(2-Chloroethyl)ether	0.0097	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.039	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.039	U
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.039	U
121-14-2	2,4-Dinitrotoluene	0.039	U	105-60-2	Caprolactam	0.039	U
606-20-2	2,6-Dinitrotoluene	0.039	U	86-74-8	Carbazole	0.039	U
91-58-7	2-Chloronaphthalene	0.039	U	218-01-9	Chrysene	0.039	U
95-57-8	2-Chlorophenol	0.039	U	53-70-3	Dibenzo[a,h]anthracene	0.039	U
91-57-6	2-Methylnaphthalene	0.039	U	132-64-9	Dibenzofuran	0.0098	U
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.039	U
88-74-4	2-Nitroaniline	0.039	U	131-11-3	Dimethylphthalate	0.039	U
88-75-5	2-Nitrophenol	0.039	U	84-74-2	Di-n-butylphthalate	0.044	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.039	U
91-94-1	3,3'-Dichlorobenzidine	0.039	U	206-44-0	Fluoranthene	0.039	U
99-09-2	3-Nitroaniline	0.039	U	86-73-7	Fluorene	0.039	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.039	U
101-55-3	4-Bromophenyl-phenylether	0.039	U	87-68-3	Hexachlorobutadiene	0.039	U
59-50-7	4-Chloro-3-methylphenol	0.039	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.039	U
7005-72-3	4-Chlorophenyl-phenylether	0.039	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.039	U
100-01-6	4-Nitroaniline	0.039	U	78-59-1	Isophorone	0.039	U
100-02-7	4-Nitrophenol	0.039	U	91-20-3	Naphthalene	0.011	U
83-32-9	Acenaphthene	0.039	U	98-95-3	Nitrobenzene	0.039	U
208-96-8	Acenaphthylene	0.039	U	62-75-9	N-Nitrosodimethylamine	0.048	U
98-86-2	Acetophenone	0.039	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	Anthracene	0.039	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.039	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.42	U	85-01-8	Phenanthrene	0.039	U
92-87-5	Benzidine	0.068	U	108-95-2	Phenol	0.039	U
56-55-3	Benzo[a]anthracene	0.039	U	129-00-0	Pyrene	0.039	U

Worksheet #: 622224

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

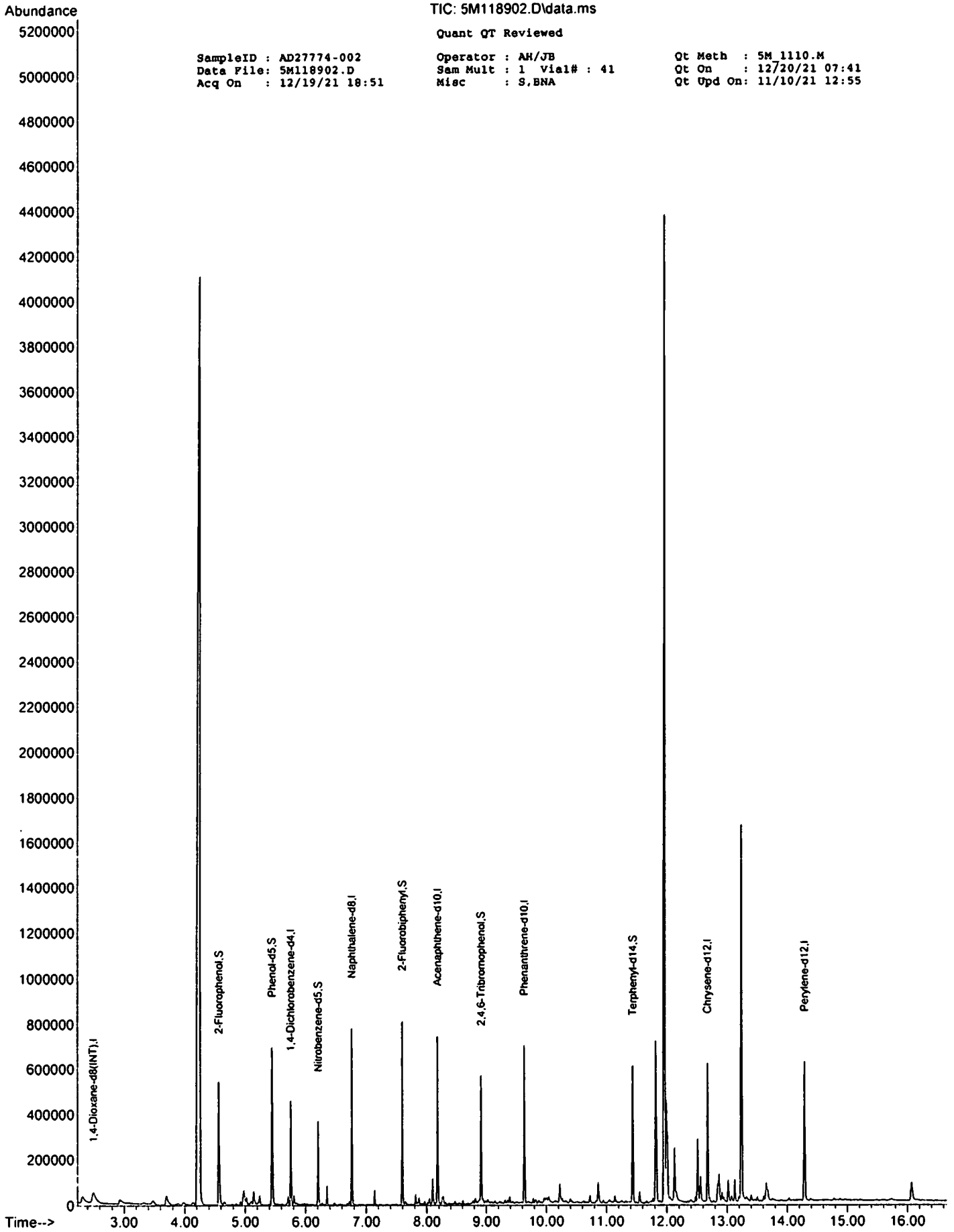
SampleID : AD27774-002 Operator : AH/JB Qt Meth : 5M_1110.M
Data File: 5M118902.D Sam Mult : 1 Vial# : 41 Qt On : 12/20/21 07:41
Acq On : 12/19/21 18:51 Misc : S,BNA Qt Upd On: 11/10/21 12:55

Data Path : G:\GcMsData\2021\GCMS_5\Data\12-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.494	96	67300	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.753	152	69960	40.00	ng	-0.03
31) Naphthalene-d8	6.762	136	287488	40.00	ng	-0.02
50) Acenaphthene-d10	8.178	164	139361	40.00	ng	-0.03
77) Phenanthrene-d10	9.631	188	255079	40.00	ng	-0.03
91) Chrysene-d12	12.676	240	225387	40.00	ng	-0.04
103) Perylene-d12	14.290	264	258432	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.567	112	193896	80.56	ng	0.00
Spiked Amount 100.000			Recovery = 80.56%			
16) Phenol-d5	5.443	99	252007	82.76	ng	-0.02
Spiked Amount 100.000			Recovery = 82.76%			
32) Nitrobenzene-d5	6.207	128	43704	40.98	ng	-0.02
Spiked Amount 50.000			Recovery = 81.96%			
55) 2-Fluorobiphenyl	7.596	172	213843	42.83	ng	-0.02
Spiked Amount 50.000			Recovery = 85.66%			
80) 2,4,6-Tribromophenol	8.915	330	63051	93.78	ng	-0.03
Spiked Amount 100.000			Recovery = 93.78%			
94) Terphenyl-d14	11.437	244	189386	50.69	ng	-0.03
Spiked Amount 50.000			Recovery = 101.38%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M118902.D\data.ms
Quant QT Reviewed
SampleID : AD27774-002
Data File: 5M118902.D
Acq On : 12/19/21 18:51
Operator : AH/JB
Sam Mult : 1 Vial# : 41
Misc : S,BNA
Qt Meth : 5M_1110.M
Qt On : 12/20/21 07:41
Qt Upd On: 11/10/21 12:55
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27774-003
Client Id: SB-011SS
Data File: 5M118903.D
Analysis Date: 12/19/21 19:15
Date Rec/Extracted: 12/08/21-12/19/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	50-32-8	Benzo[a]pyrene	0.040	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	205-99-2	Benzo[b]fluoranthene	0.040	U
122-66-7	1,2-Diphenylhydrazine	0.040	U	191-24-2	Benzo[g,h,i]perylene	0.040	U
123-91-1	1,4-Dioxane	0.020	U	207-08-9	Benzo[k]fluoranthene	0.040	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	100-51-6	Benzyl alcohol	0.040	U
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.0099	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.019	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.040**	**0.23**
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	86-74-8	Carbazole	0.040	U
91-58-7	2-Chloronaphthalene	0.040	U	218-01-9	Chrysene	0.040	U
95-57-8	2-Chlorophenol	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
91-57-6	**2-Methylnaphthalene**	**0.040**	**0.092**	132-64-9	Dibenzofuran	0.010	U
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.040	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.046	U
106-44-5	3&4-Methylphenol	0.012	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	U	206-44-0	Fluoranthene	0.040	U
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	**91-20-3**	**Naphthalene**	**0.011**	**0.025**
83-32-9	Acenaphthene	0.040	U	98-95-3	Nitrobenzene	0.040	U
208-96-8	Acenaphthylene	0.040	U	62-75-9	N-Nitrosodimethylamine	0.049	U
98-86-2	Acetophenone	0.040	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	Anthracene	0.040	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.040	U	87-86-5	Pentachlorophenol	0.20	U
100-52-7	Benzaldehyde	0.43	U	85-01-8	Phenanthrene	0.040	U
92-87-5	Benzidine	0.070	U	108-95-2	Phenol	0.040	U
56-55-3	Benzo[a]anthracene	0.040	U	129-00-0	Pyrene	0.040	U

Worksheet #: 622224

Total Target Concentration 0.35

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

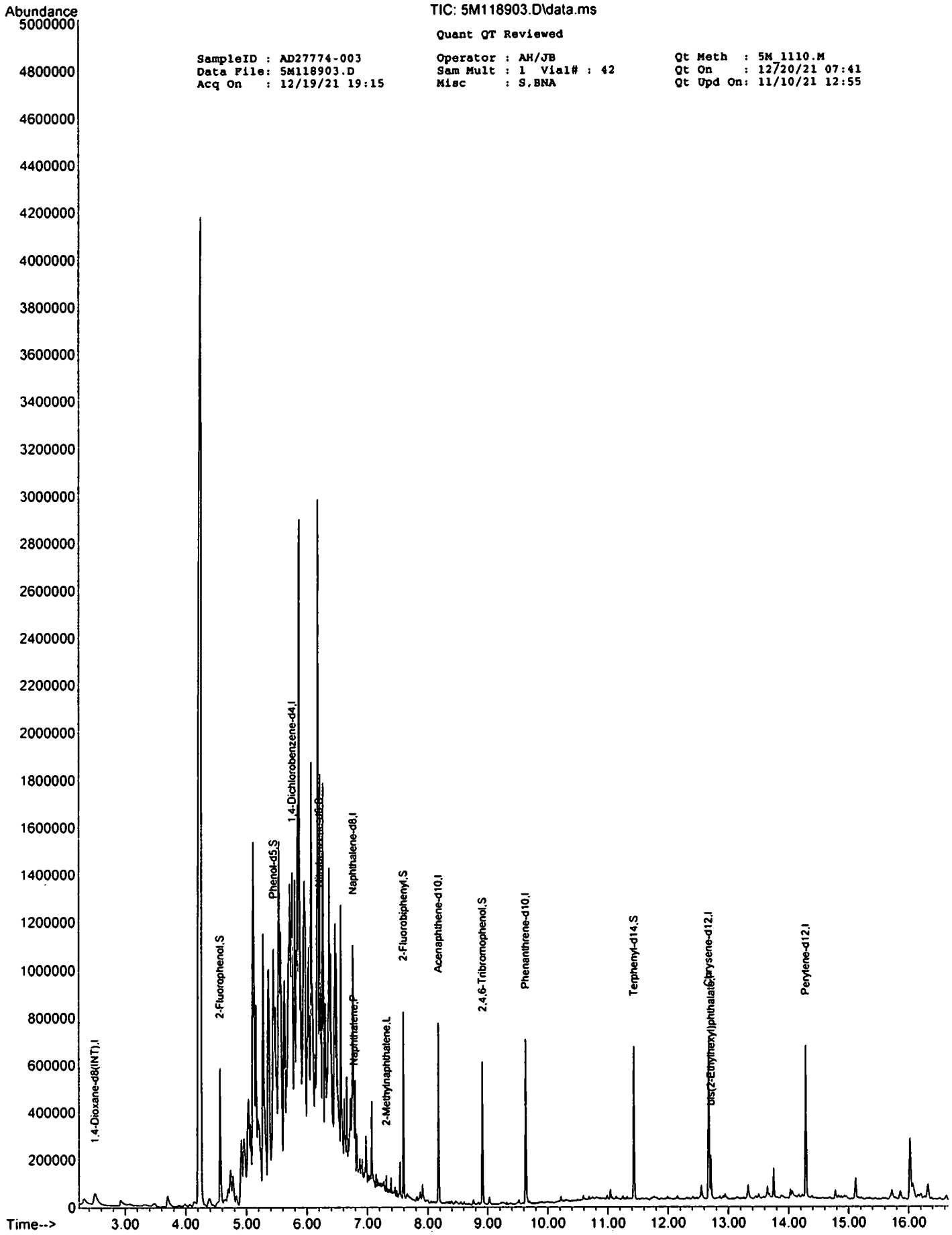
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD27774-003 Operator : AH/JB Qt Meth : 5M_1110.M
Data File: 5M118903.D Sam Mult : 1 Vial# : 42 Qt On : 12/20/21 07:41
Acq On : 12/19/21 19:15 Misc : S,BNA Qt Upd On: 11/10/21 12:55

Data Path : G:\GcMsData\2021\GCMS_5\Data\12-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.499	96	70604	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.758	152	69824m	40.00	ng	-0.02
31) Naphthalene-d8	6.762	136	282436m	40.00	ng	-0.02
50) Acenaphthene-d10	8.178	164	144264	40.00	ng	-0.03
77) Phenanthrene-d10	9.631	188	265673	40.00	ng	-0.03
91) Chrysene-d12	12.676	240	243379	40.00	ng	-0.04
103) Perylene-d12	14.290	264	272880	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.567	112	199321	78.94	ng	0.00
Spiked Amount 100.000			Recovery = 78.94%			
16) Phenol-d5	5.448	99	260032	81.40	ng	-0.01
Spiked Amount 100.000			Recovery = 81.40%			
32) Nitrobenzene-d5	6.207	128	45477m	43.40	ng	-0.02
Spiked Amount 50.000			Recovery = 86.80%			
55) 2-Fluorobiphenyl	7.596	172	209490	40.53	ng	-0.02
Spiked Amount 50.000			Recovery = 81.06%			
80) 2,4,6-Tribromophenol	8.915	330	66385	94.74	ng	-0.03
Spiked Amount 100.000			Recovery = 94.74%			
94) Terphenyl-d14	11.437	244	198572	49.22	ng	-0.03
Spiked Amount 50.000			Recovery = 98.44%			
Target Compounds						Qvalue
41) Naphthalene	6.778	128	9443m	1.2352	ng	
46) 2-Methylnaphthalene	7.313	142	21901	4.6394	ng	95
102) bis(2-Ethylhexyl)phtha...	12.714	149	55326	11.5004	ng	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 5M118903.D\data.ms
Quant QT Reviewed
SampleID : AD27774-003
Data File: 5M118903.D
Acq On : 12/19/21 19:15
Operator : AH/JB
Sam Mult : 1 Vial# : 42
Misc : S,BNA
Qt Meth : 5M_1110.M
Qt On : 12/20/21 07:41
Qt Upd On: 11/10/21 12:55
Abundance
Time-->
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Naphthalene,P
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
bis(2-Ethylhexyl)phthalate,P
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95930
Client Id:
Data File: 5M118892.D
Analysis Date: 12/19/21 14:55
Date Rec/Extracted: NA-12/19/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 622224

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : SMB95930 Operator : AH/JB Qt Meth : 5M_1110.M
Data File: 5M118892.D Sam Mult : 1 Vial# : 31 Qt On : 12/20/21 07:40
Acq On : 12/19/21 14:55 Misc : S,BNA Qt Upd On: 11/10/21 12:55

Data Path : G:\GcMsData\2021\GCMS_5\Data\12-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.494	96	86502	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.752	152	75218	40.00	ng	-0.03
31) Naphthalene-d8	6.762	136	310351	40.00	ng	-0.02
50) Acenaphthene-d10	8.178	164	153644	40.00	ng	-0.03
77) Phenanthrene-d10	9.636	188	285059	40.00	ng	-0.03
91) Chrysene-d12	12.681	240	253631	40.00	ng	-0.03
103) Perylene-d12	14.289	264	279173	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.561	112	221599	71.63	ng	-0.01
Spiked Amount 100.000			Recovery =	71.63%		
16) Phenol-d5	5.443	99	284150	72.60	ng	-0.02
Spiked Amount 100.000			Recovery =	72.60%		
32) Nitrobenzene-d5	6.207	128	48806	42.39	ng	-0.02
Spiked Amount 50.000			Recovery =	84.78%		
55) 2-Fluorobiphenyl	7.596	172	231145	41.99	ng	-0.02
Spiked Amount 50.000			Recovery =	83.98%		
80) 2,4,6-Tribromophenol	8.920	330	66513	88.79	ng	-0.02
Spiked Amount 100.000			Recovery =	88.79%		
94) Terphenyl-d14	11.437	244	200384	47.67	ng	-0.03
Spiked Amount 50.000			Recovery =	95.34%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

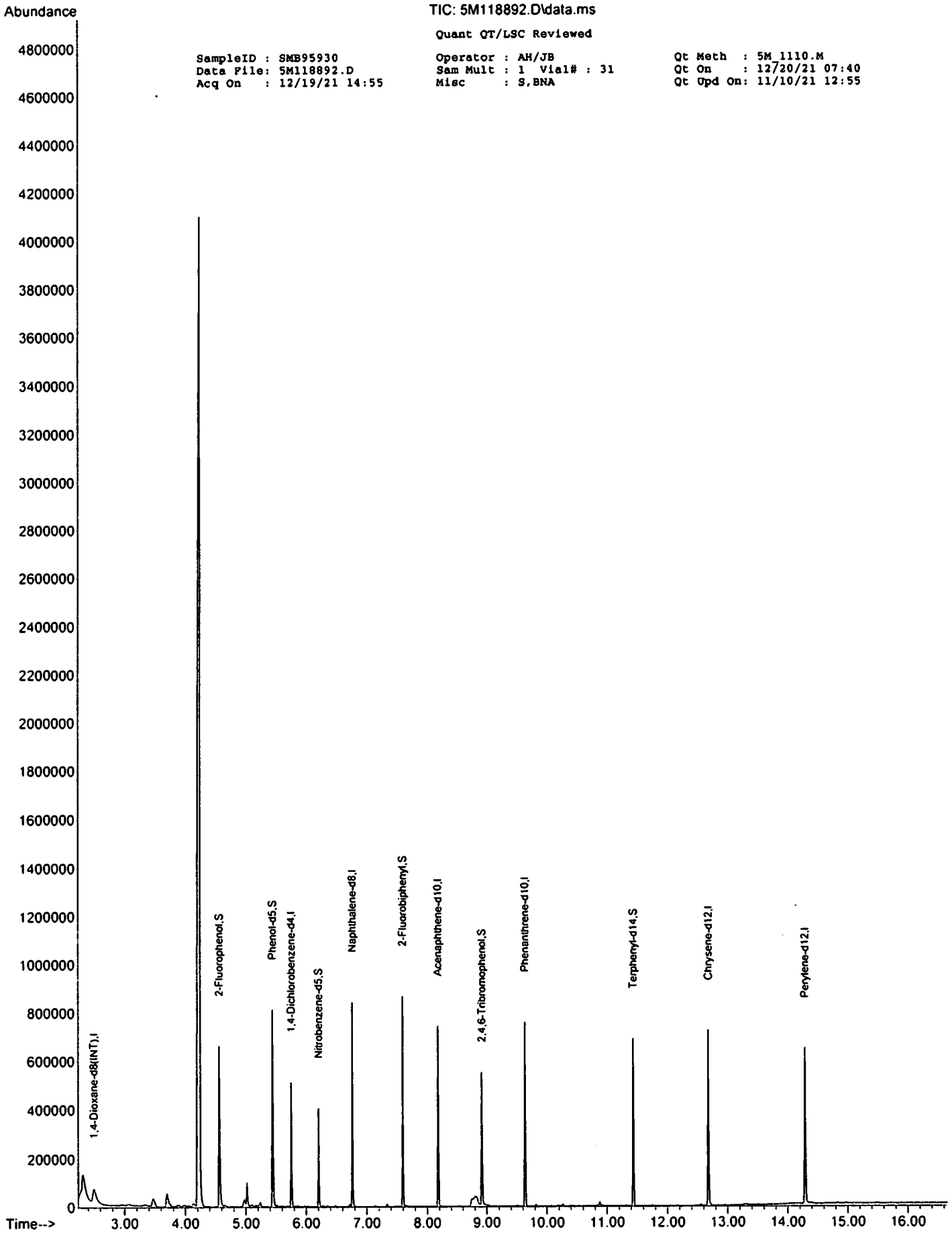
TIC: 5M118892.D\data.ms

Quant QT/LSC Reviewed

SampleID : SMB95930
Data File: 5M118892.D
Acq On : 12/19/21 14:55

Operator : AH/JB
Sam Mult : 1 Vial# : 31
Misc : S,BNA

Qt Meth : 5M_1110.M
Qt On : 12/20/21 07:40
Qt Upd On: 11/10/21 12:55



FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M118892.D	SMB95930	S	12/19/21 14:55	1		72	73	85	84	89	95
9M110206.D	AD27774-001	S	12/19/21 17:08	1		78	81	88	81	74	102
5M118902.D	AD27774-002	S	12/19/21 18:51	1		81	83	82	86	94	101
5M118903.D	AD27774-003	S	12/19/21 19:15	1		79	81	87	81	95	98
5M118893.D	SMB95930(MS)	S	12/19/21 15:18	1		79	83	91	88	103	99
9M110207.D	AD27774-001(MS)	S	12/19/21 17:31	1		76	79	85	80	82	96
9M110208.D	AD27774-001(MSD)	S	12/19/21 17:54	1		82	85	85	80	85	106

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95930

Data File	Sample ID:	Analysis Date
Spike or Dup: 5M118893.D	SMB95930(MS)	12/19/2021 3:18:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.5458	0	50	33	25	150
Pyridine	1	31.0199	0	50	62	1	150
N-Nitrosodimethylamine	1	33.0832	0	50	66	50	130
Benzaldehyde	1	32.0289	0	50	64	20	220
Aniline	1	16.7698	0	50	34	20	150
Pentachloroethane	1	34.1979	0	50	68	50	130
bis(2-Chloroethyl)ether	1	34.4775	0	50	69	50	130
Phenol	1	76.7188	0	100	77	20	150
2-Chlorophenol	1	79.3055	0	100	79	50	130
N-Decane	1	29.1602	0	50	58	20	130
1,3-Dichlorobenzene	1	31.8083	0	50	64	60	130
1,4-Dichlorobenzene	1	36.6274	0	50	73	60	130
1,2-Dichlorobenzene	1	36.6533	0	50	73	50	130
Benzyl alcohol	1	42.0284	0	50	84	20	130
bis(2-chloroisopropyl)ether	1	37.5777	0	50	75	40	130
2-Methylphenol	1	82.8317	0	100	83	50	130
Acetophenone	1	40.6839	0	50	81	50	130
Hexachloroethane	1	35.5256	0	50	71	50	130
N-Nitroso-di-n-propylamine	1	38.7046	0	50	77	40	130
3&4-Methylphenol	1	90.7993	0	100	91	70	130
Nitrobenzene	1	42.4482	0	50	85	70	130
Isophorone	1	38.361	0	50	77	60	130
2-Nitrophenol	1	99.3966	0	100	99	70	130
2,4-Dimethylphenol	1	85.1473	0	100	85	40	130
Benzoic Acid	1	88.0931	0	100	88	20	130
bis(2-Chloroethoxy)methane	1	41.8101	0	50	84	60	130
2,4-Dichlorophenol	1	89.0163	0	100	89	70	130
1,2,4-Trichlorobenzene	1	39.1005	0	50	78	50	130
Naphthalene	1	35.539	0	50	71	50	130
4-Chloroaniline	1	22.6471	0	50	45	10	150
Hexachlorobutadiene	1	37.3022	0	50	75	60	130
Caprolactam	1	45.635	0	50	91	50	130
4-Chloro-3-methylphenol	1	99.0859	0	100	99	50	130
2-Methylnaphthalene	1	41.1781	0	50	82	70	130
1-Methylnaphthalene	1	41.881	0	50	84	70	130
1,1'-Biphenyl	1	41.0306	0	50	82	60	130
1,2,4,5-Tetrachlorobenzene	1	38.354	0	50	77	70	130
Hexachlorocyclopentadiene	1	41.494	0	50	83	20	160
2,4,6-Trichlorophenol	1	89.2279	0	100	89	70	130
2,4,5-Trichlorophenol	1	98.3436	0	100	98	70	130
2-Chloronaphthalene	1	40.608	0	50	81	70	130
1,4-Dimethylnaphthalene	1	40.1543	0	50	80	70	130
Diphenyl Ether	1	40.6827	0	50	81	70	130
2-Nitroaniline	1	44.1852	0	50	88	50	130
Coumarin	1	41.0653	0	50	82	70	130
Acenaphthylene	1	39.346	0	50	79	70	130
Dimethylphthalate	1	41.5454	0	50	83	70	130
2,6-Dinitrotoluene	1	41.4836	0	50	83	70	130
Acenaphthene	1	41.1732	0	50	82	50	130
3-Nitroaniline	1	27.529	0	50	55	10	130
2,4-Dinitrophenol	1	107.1625	0	100	107	20	150
Dibenzofuran	1	40.2111	0	50	80	70	130
2,4-Dinitrotoluene	1	43.3047	0	50	87	40	130
4-Nitrophenol	1	92.1801	0	100	92	20	150
2,3,4,6-Tetrachlorophenol	1	91.9648	0	100	92	70	130
Fluorene	1	40.7087	0	50	81	50	130
4-Chlorophenyl-phenylether	1	42.5427	0	50	85	70	130
Diethylphthalate	1	41.6786	0	50	83	70	130
4-Nitroaniline	1	42.3621	0	50	85	50	130
Atrazine	1	44.6859	0	50	89	50	130
4,6-Dinitro-2-methylphenol	1	115.2088	0	100	115	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95930

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.1853	0	50	70	50	130
1,2-Diphenylhydrazine	1	40.9594	0	50	82	70	130
4-Bromophenyl-phenylether	1	44.6324	0	50	89	70	130
Hexachlorobenzene	1	41.645	0	50	83	70	130
N-Octadecane	1	47.0137	0	50	94	70	130
Pentachlorophenol	1	113.7023	0	100	114	40	130
Phenanthrene	1	42.9399	0	50	86	70	130
Anthracene	1	41.7843	0	50	84	70	130
Carbazole	1	44.5732	0	50	89	70	130
Di-n-butylphthalate	1	43.8736	0	50	88	70	130
Fluoranthene	1	44.4272	0	50	89	70	130
Pyrene	1	41.8821	0	50	84	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	42.1357	0	50	84	50	130
3,3'-Dichlorobenzidine	1	20.5819	0	50	41	10	130
Benzo[a]anthracene	1	40.0412	0	50	80	70	130
Chrysene	1	44.2497	0	50	88	60	130
bis(2-Ethylhexyl)phthalate	1	42.4961	0	50	85	70	130
Di-n-octylphthalate	1	44.6397	0	50	89	70	130
Benzo[b]fluoranthene	1	46.4829	0	50	93	70	130
Benzo[k]fluoranthene	1	43.7927	0	50	88	70	130
Benzo[a]pyrene	1	41.6834	0	50	83	70	130
Indeno[1,2,3-cd]pyrene	1	47.7891	0	50	96	70	130
Dibenzo[a,h]anthracene	1	47.6753	0	50	95	60	130
Benzo[g,h,i]perylene	1	46.1131	0	50	92	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110207.D	AD27774-001(MS)	12/19/2021 5:31:00 PM
Non Spike(If applicable):	9M110206.D	AD27774-001	12/19/2021 5:08:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.109	0	50	36	25	150
Pyridine	1	35.6799	0	50	71	1	150
N-Nitrosodimethylamine	1	35.6881	0	50	71	50	130
Benzaldehyde	1	35.2323	0	50	70	20	220
Aniline	1	18.5889	0	50	37	20	150
Pentachloroethane	1	31.8224	0	50	64	50	130
bis(2-Chloroethyl)ether	1	31.6219	0	50	63	50	130
Phenol	1	73.8426	0	100	74	20	150
2-Chlorophenol	1	75.2482	0	100	75	50	130
N-Decane	1	29.6592	0	50	59	20	130
1,3-Dichlorobenzene	1	30.5578	0	50	61	60	130
1,4-Dichlorobenzene	1	35.4385	0	50	71	60	130
1,2-Dichlorobenzene	1	34.2275	0	50	68	50	130
Benzyl alcohol	1	41.1726	0	50	82	20	130
bis(2-chloroisopropyl)ether	1	38.1824	0	50	76	40	130
2-Methylphenol	1	88.2349	0	100	88	50	130
Acetophenone	1	39.5569	0	50	79	50	130
Hexachloroethane	1	34.0671	0	50	68	50	130
N-Nitroso-di-n-propylamine	1	37.5571	0	50	75	40	130
3&4-Methylphenol	1	86.9187	0	100	87	70	130
Nitrobenzene	1	41.7541	0	50	84	70	130
Isophorone	1	39.2839	0	50	79	60	130
2-Nitrophenol	1	92.4333	0	100	92	70	130
2,4-Dimethylphenol	1	86.4626	0	100	86	40	130
Benzoic Acid	1	24.5679	0	100	25	20	130
bis(2-Chloroethoxy)methane	1	40.4502	0	50	81	60	130
2,4-Dichlorophenol	1	86.1137	0	100	86	70	130
1,2,4-Trichlorobenzene	1	35.7453	0	50	71	50	130
Naphthalene	1	35.5968	0	50	71	50	130
4-Chloroaniline	1	22.7535	0	50	46	10	150
Hexachlorobutadiene	1	33.457	0	50	67	60	130
Caprolactam	1	47.0734	0	50	94	50	130
4-Chloro-3-methylphenol	1	94.6623	0	100	95	50	130
2-Methylnaphthalene	1	39.4702	0	50	79	70	130
1-Methylnaphthalene	1	39.2135	0	50	78	70	130
1,1'-Biphenyl	1	38.4266	0	50	77	60	130
1,2,4,5-Tetrachlorobenzene	1	34.3837	0	50	69*	70	130
Hexachlorocyclopentadiene	1	12.5771	0	50	25	20	160
2,4,6-Trichlorophenol	1	77.2017	0	100	77	70	130
2,4,5-Trichlorophenol	1	78.4595	0	100	78	70	130
2-Chloronaphthalene	1	37.6605	0	50	75	70	130
1,4-Dimethylnaphthalene	1	38.9092	0	50	78	70	130
Diphenyl Ether	1	36.7588	0	50	74	70	130
2-Nitroaniline	1	43.9114	0	50	88	50	130
Coumarin	1	40.0693	0	50	80	70	130
Acenaphthylene	1	38.8539	0	50	78	70	130
Dimethylphthalate	1	37.2452	0	50	74	70	130
2,6-Dinitrotoluene	1	35.7806	0	50	72	70	130
Acenaphthene	1	39.7525	0	50	80	50	130
3-Nitroaniline	1	38.5631	0	50	77	70	130
2,4-Dinitrophenol	1	85.3991	0	100	85	20	150
Dibenzofuran	1	37.4196	0	50	75	70	130
2,4-Dinitrotoluene	1	40.7527	0	50	82	40	130
4-Nitrophenol	1	92.1308	0	100	92	20	150
2,3,4,6-Tetrachlorophenol	1	69.2734	0	100	69*	70	130
Fluorene	1	37.3311	0	50	75	50	130
4-Chlorophenyl-phenylether	1	37.3339	0	50	75	70	130
Diethylphthalate	1	38.5554	0	50	77	70	130
4-Nitroaniline	1	38.3742	0	50	77	50	130
Atrazine	1	41.4541	0	50	83	50	130
4,6-Dinitro-2-methylphenol	1	92.6287	0	100	93	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95930

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	32.9428	0	50	66	50	130
1,2-Diphenylhydrazine	1	46.9088	0	50	94	70	130
4-Bromophenyl-phenylether	1	39.23	0	50	78	70	130
Hexachlorobenzene	1	37.6781	0	50	75	70	130
N-Octadecane	1	48.976	0	50	98	70	130
Pentachlorophenol	1	82.4677	0	100	82	40	130
Phenanthrene	1	47.3814	3.6251	50	88	70	130
Anthracene	1	40.6463	0	50	81	70	130
Carbazole	1	41.8175	0	50	84	70	130
Di-n-butylphthalate	1	45.4049	0	50	91	70	130
Fluoranthene	1	58.2143	7.3639	50	102	70	130
Pyrene	1	54.4864	7.7221	50	94	50	130
Benzidine	1	2.1177	0	50	4.2	0	130
Butylbenzylphthalate	1	45.3303	0	50	91	50	130
3,3'-Dichlorobenzidine	1	29.7474	0	50	59	10	130
Benzo[a]anthracene	1	45.0212	4.5884	50	81	70	130
Chrysene	1	46.5057	4.2235	50	85	60	130
bis(2-Ethylhexyl)phthalate	1	45.5728	0	50	91	70	130
Di-n-octylphthalate	1	48.0781	0	50	96	70	130
Benzo[b]fluoranthene	1	47.8828	6.0236	50	84	70	130
Benzo[k]fluoranthene	1	40.9288	2.2356	50	77	70	130
Benzo[a]pyrene	1	45.1603	4.8729	50	81	70	130
Indeno[1,2,3-cd]pyrene	1	44.3085	3.0225	50	83	70	130
Dibenzo[a,h]anthracene	1	41.3461	0	50	83	60	130
Benzo[g,h,i]perylene	1	42.3772	3.4869	50	78	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110208.D	AD27774-001(MSD)	12/19/2021 5:54:00 PM
Non Spike(If applicable):	9M110206.D	AD27774-001	12/19/2021 5:08:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.3341	0	50	35	25	150
Pyridine	1	34.9065	0	50	70	1	150
N-Nitrosodimethylamine	1	36.2197	0	50	72	50	130
Benzaldehyde	1	36.9047	0	50	74	20	220
Aniline	1	18.5956	0	50	37	20	150
Pentachloroethane	1	34.0674	0	50	68	50	130
bis(2-Chloroethyl)ether	1	33.4882	0	50	67	50	130
Phenol	1	79.6711	0	100	80	20	150
2-Chlorophenol	1	76.9065	0	100	77	50	130
N-Decane	1	29.5595	0	50	59	20	130
1,3-Dichlorobenzene	1	29.4907	0	50	59*	60	130
1,4-Dichlorobenzene	1	35.2148	0	50	70	60	130
1,2-Dichlorobenzene	1	35.1295	0	50	70	50	130
Benzyl alcohol	1	40.8954	0	50	82	20	130
bis(2-chloroisopropyl)ether	1	38.7495	0	50	77	40	130
2-Methylphenol	1	88.1307	0	100	88	50	130
Acetophenone	1	41.7808	0	50	84	50	130
Hexachloroethane	1	33.8137	0	50	68	50	130
N-Nitroso-di-n-propylamine	1	39.0553	0	50	78	40	130
3&4-Methylphenol	1	92.6527	0	100	93	70	130
Nitrobenzene	1	40.2608	0	50	81	70	130
Isophorone	1	38.6014	0	50	77	60	130
2-Nitrophenol	1	90.089	0	100	90	70	130
2,4-Dimethylphenol	1	82.9838	0	100	83	40	130
Benzoic Acid	1	28.3021	0	100	28	20	130
bis(2-Chloroethoxy)methane	1	38.4468	0	50	77	60	130
2,4-Dichlorophenol	1	86.5816	0	100	87	70	130
1,2,4-Trichlorobenzene	1	36.679	0	50	73	50	130
Naphthalene	1	37.0342	0	50	74	50	130
4-Chloroaniline	1	22.4984	0	50	45	10	150
Hexachlorobutadiene	1	33.9057	0	50	68	60	130
Caprolactam	1	45.5817	0	50	91	50	130
4-Chloro-3-methylphenol	1	99.2696	0	100	99	50	130
2-Methylnaphthalene	1	39.8166	0	50	80	70	130
1-Methylnaphthalene	1	39.5204	0	50	79	70	130
1,1'-Biphenyl	1	41.3116	0	50	83	60	130
1,2,4,5-Tetrachlorobenzene	1	34.3059	0	50	69*	70	130
Hexachlorocyclopentadiene	1	12.665	0	50	25	20	160
2,4,6-Trichlorophenol	1	77.9642	0	100	78	70	130
2,4,5-Trichlorophenol	1	81.7748	0	100	82	70	130
2-Chloronaphthalene	1	39.888	0	50	80	70	130
1,4-Dimethylnaphthalene	1	39.9813	0	50	80	70	130
Diphenyl Ether	1	40.4024	0	50	81	70	130
2-Nitroaniline	1	46.9219	0	50	94	50	130
Coumarin	1	41.2665	0	50	83	70	130
Acenaphthylene	1	39.8457	0	50	80	70	130
Dimethylphthalate	1	41.5597	0	50	83	70	130
2,6-Dinitrotoluene	1	37.1992	0	50	74	70	130
Acenaphthene	1	40.5569	0	50	81	50	130
3-Nitroaniline	1	38.4574	0	50	77	70	130
2,4-Dinitrophenol	1	87.2726	0	100	87	20	150
Dibenzofuran	1	40.1219	0	50	80	70	130
2,4-Dinitrotoluene	1	42.7632	0	50	86	40	130
4-Nitrophenol	1	96.3339	0	100	96	20	150
2,3,4,6-Tetrachlorophenol	1	76.8719	0	100	77	70	130
Fluorene	1	39.7125	0	50	79	50	130
4-Chlorophenyl-phenylether	1	40.3085	0	50	81	70	130
Diethylphthalate	1	41.3274	0	50	83	70	130
4-Nitroaniline	1	40.8181	0	50	82	50	130
Atrazine	1	42.365	0	50	85	50	130
4,6-Dinitro-2-methylphenol	1	99.316	0	100	99	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95930

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.3335	0	50	71	50	130
1,2-Diphenylhydrazine	1	50.4199	0	50	101	70	130
4-Bromophenyl-phenylether	1	40.3566	0	50	81	70	130
Hexachlorobenzene	1	38.4037	0	50	77	70	130
N-Octadecane	1	49.5281	0	50	99	70	130
Pentachlorophenol	1	83.0751	0	100	83	40	130
Phenanthrene	1	45.0135	3.6251	50	83	70	130
Anthracene	1	41.3046	0	50	83	70	130
Carbazole	1	44.699	0	50	89	70	130
Di-n-butylphthalate	1	47.4115	0	50	95	70	130
Fluoranthene	1	51.1286	7.3639	50	88	70	130
Pyrene	1	50.322	7.7221	50	85	50	130
Benzidine	1	2.0841	0	50	4.2	0	130
Butylbenzylphthalate	1	49.344	0	50	99	50	130
3,3'-Dichlorobenzidine	1	31.0871	0	50	62	10	130
Benzo[a]anthracene	1	43.5235	4.5884	50	78	70	130
Chrysene	1	46.6821	4.2235	50	85	60	130
bis(2-Ethylhexyl)phthalate	1	48.4835	0	50	97	70	130
Di-n-octylphthalate	1	50.5413	0	50	101	70	130
Benzo[b]fluoranthene	1	49.9256	6.0236	50	88	70	130
Benzo[k]fluoranthene	1	40.8178	2.2356	50	77	70	130
Benzo[a]pyrene	1	43.1356	4.8729	50	77	70	130
Indeno[1,2,3-cd]pyrene	1	43.842	3.0225	50	82	70	130
Dibenzo[a,h]anthracene	1	41.335	0	50	83	60	130
Benzo[g,h,i]perylene	1	43.5471	3.4869	50	80	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95930

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110208.D	AD27774-001(MSD)	12/19/2021 5:54:00 PM
Duplicate(If applicable):	9M110207.D	AD27774-001(MS)	12/19/2021 5:31:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	17.3341	18.109	4.4	30
Pyridine	1	34.9065	35.6799	2.2	30
N-Nitrosodimethylamine	1	36.2197	35.6881	1.5	30
Benzaldehyde	1	36.9047	35.2323	4.6	30
Aniline	1	18.5956	18.5889	0.04	30
Pentachloroethane	1	34.0674	31.8224	6.8	30
bis(2-Chloroethyl)ether	1	33.4882	31.6219	5.7	30
Phenol	1	79.6711	73.8426	7.6	40
2-Chlorophenol	1	76.9065	75.2482	2.2	40
N-Decane	1	29.5595	29.6592	0.34	30
1,3-Dichlorobenzene	1	29.4907	30.5578	3.6	30
1,4-Dichlorobenzene	1	35.2148	35.4385	0.63	40
1,2-Dichlorobenzene	1	35.1295	34.2275	2.6	30
Benzyl alcohol	1	40.8954	41.1726	0.68	30
bis(2-chloroisopropyl)ether	1	38.7495	38.1824	1.5	30
2-Methylphenol	1	88.1307	88.2349	0.12	40
Acetophenone	1	41.7808	39.5569	5.5	30
Hexachloroethane	1	33.8137	34.0671	0.75	30
N-Nitroso-di-n-propylamine	1	39.0553	37.5571	3.9	40
3&4-Methylphenol	1	92.6527	86.9187	6.4	30
Nitrobenzene	1	40.2608	41.7541	3.6	30
Isophorone	1	38.6014	39.2839	1.8	30
2-Nitrophenol	1	90.089	92.4333	2.6	30
2,4-Dimethylphenol	1	82.9838	86.4626	4.1	40
Benzoic Acid	1	28.3021	24.5679	14	30
bis(2-Chloroethoxy)methane	1	38.4468	40.4502	5.1	30
2,4-Dichlorophenol	1	86.5816	86.1137	0.54	30
1,2,4-Trichlorobenzene	1	36.679	35.7453	2.6	40
Naphthalene	1	37.0342	35.5968	4	40
4-Chloroaniline	1	22.4984	22.7535	1.1	30
Hexachlorobutadiene	1	33.9057	33.457	1.3	30
Caprolactam	1	45.5817	47.0734	3.2	30
4-Chloro-3-methylphenol	1	99.2696	94.6623	4.8	40
2-Methylnaphthalene	1	39.8166	39.4702	0.87	30
1-Methylnaphthalene	1	39.5204	39.2135	0.78	30
1,1'-Biphenyl	1	41.3116	38.4266	7.2	30
1,2,4,5-Tetrachlorobenzene	1	34.3059	34.3837	0.23	30
Hexachlorocyclopentadiene	1	12.665	12.5771	0.7	30
2,4,6-Trichlorophenol	1	77.9642	77.2017	0.98	30
2,4,5-Trichlorophenol	1	81.7748	78.4595	4.1	30
2-Chloronaphthalene	1	39.888	37.6605	5.7	30
1,4-Dimethylnaphthalene	1	39.9813	38.9092	2.7	30
Diphenyl Ether	1	40.4024	36.7588	9.4	30
2-Nitroaniline	1	46.9219	43.9114	6.6	30
Coumarin	1	41.2665	40.0693	2.9	30
Acenaphthylene	1	39.8457	38.8539	2.5	30
Dimethylphthalate	1	41.5597	37.2452	11	30
2,6-Dinitrotoluene	1	37.1992	35.7806	3.9	30
Acenaphthene	1	40.5569	39.7525	2	40
3-Nitroaniline	1	38.4574	38.5631	0.27	30
2,4-Dinitrophenol	1	87.2726	85.3991	2.2	30
Dibenzofuran	1	40.1219	37.4196	7	30
2,4-Dinitrotoluene	1	42.7632	40.7527	4.8	40
4-Nitrophenol	1	96.3339	92.1308	4.5	40
2,3,4,6-Tetrachlorophenol	1	76.8719	69.2734	10	30
Fluorene	1	39.7125	37.3311	6.2	40
4-Chlorophenyl-phenylether	1	40.3085	37.3339	7.7	30
Diethylphthalate	1	41.3274	38.5554	6.9	30
4-Nitroaniline	1	40.8181	38.3742	6.2	30
Atrazine	1	42.365	41.4541	2.2	30
4,6-Dinitro-2-methylphenol	1	99.316	92.6287	7	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95930

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	35.3335	32.9428	7	30
1,2-Diphenylhydrazine	1	50.4199	46.9088	7.2	30
4-Bromophenyl-phenylether	1	40.3566	39.23	2.8	30
Hexachlorobenzene	1	38.4037	37.6781	1.9	30
N-Octadecane	1	49.5281	48.976	1.1	30
Pentachlorophenol	1	83.0751	82.4677	0.73	40
Phenanthrene	1	45.0135	47.3814	5.1	30
Anthracene	1	41.3046	40.6463	1.6	30
Carbazole	1	44.699	41.8175	6.7	30
Di-n-butylphthalate	1	47.4115	45.4049	4.3	30
Fluoranthene	1	51.1286	58.2143	13	30
Pyrene	1	50.322	54.4864	7.9	40
Benzidine	1	2.0841	2.1177	1.6	30
Butylbenzylphthalate	1	49.344	45.3303	8.5	40
3,3'-Dichlorobenzidine	1	31.0871	29.7474	4.4	30
Benzo[a]anthracene	1	43.5235	45.0212	3.4	30
Chrysene	1	46.6821	46.5057	0.38	30
bis(2-Ethylhexyl)phthalate	1	48.4835	45.5728	6.2	30
Di-n-octylphthalate	1	50.5413	48.0781	5	30
Benzo[b]fluoranthene	1	49.9256	47.8828	4.2	30
Benzo[k]fluoranthene	1	40.8178	40.9288	0.27	30
Benzo[a]pyrene	1	43.1356	45.1603	4.6	30
Indeno[1,2,3-cd]pyrene	1	43.842	44.3085	1.1	30
Dibenzo[a,h]anthracene	1	41.335	41.3461	0.03	30
Benzo[g,h,i]perylene	1	43.5471	42.3772	2.7	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95930
Blank Data File: 5M118892.D
Matrix: Soil

Blank Analysis Date: 12/19/21 14:55
Blank Extraction Date: 12/19/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD27774-001	9M110206.D	12/19/21 17:08
AD27774-002	5M118902.D	12/19/21 18:51
AD27774-003	5M118903.D	12/19/21 19:15
AD27774-001(MSD	9M110208.D	12/19/21 17:54
AD27774-001(MS)	9M110207.D	12/19/21 17:31
SMB95930(MS)	5M118893.D	12/19/21 15:18

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M118394.D
Analysis Date: 11/10/21 07:13
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.941 to 9.952 min

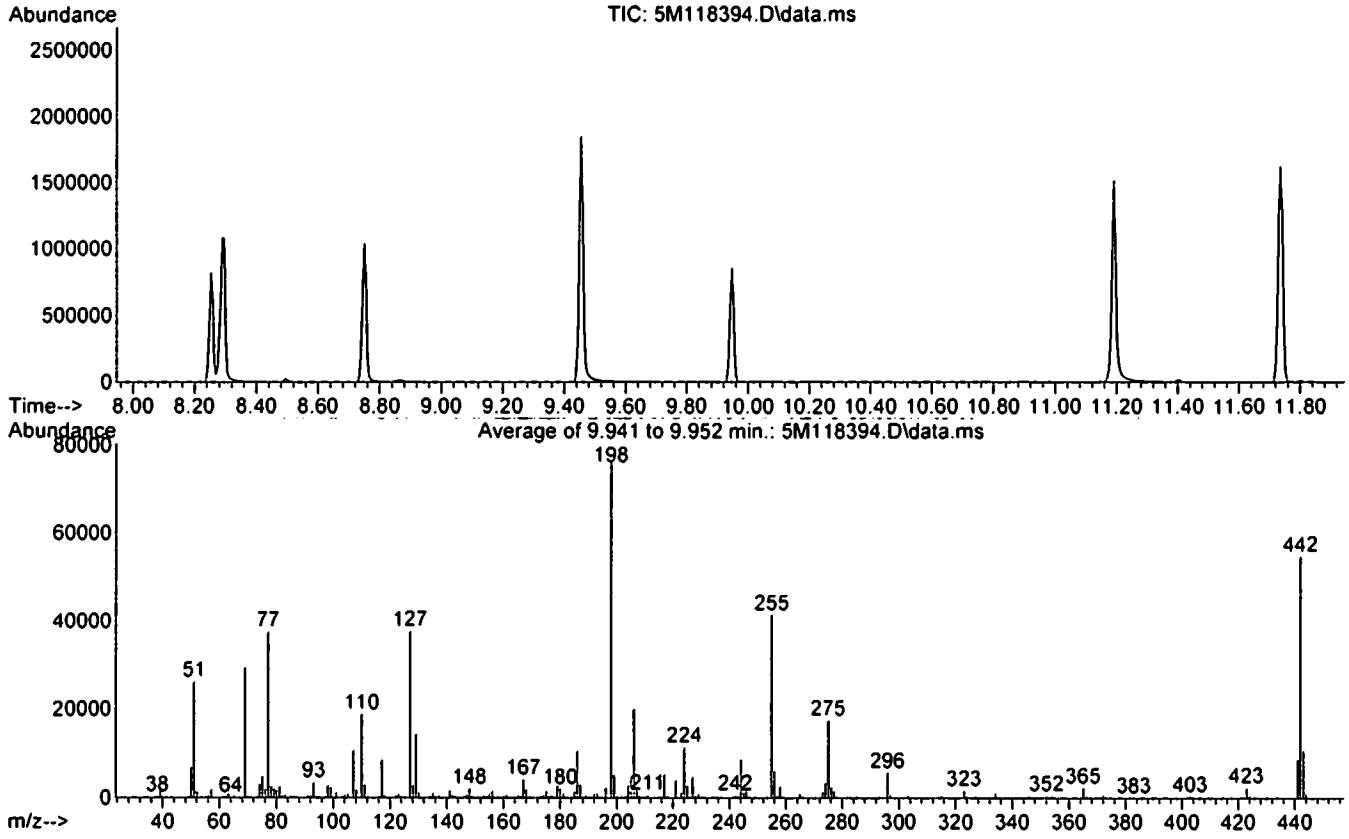
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.4	26352	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.4	29432	PASS
70	69	0.00	2	0.6	191	PASS
127	198	40	60	49.3	37832	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76688	PASS
199	198	5	9	6.8	5217	PASS
275	198	10	30	22.9	17524	PASS
365	198	1	100	3.1	2351	PASS
441	443	0.01	100	81.9	8780	PASS
442	198	40	100	71.4	54755	PASS
443	442	17	23	19.6	10726	PASS

Data File	Sample Number	Analysis Date:
5M118395.D	CAL BNA@10PPM	11/10/21 07:37
5M118396.D	CAL BNA@2PPM	11/10/21 08:00
5M118397.D	CAL BNA@196PP	11/10/21 08:26
5M118398.D	CAL BNA@160PP	11/10/21 08:49
5M118399.D	CAL BNA@120PP	11/10/21 09:13
5M118400.D	CAL BNA@80PPM	11/10/21 09:37
5M118401.D	CAL BNA@20PPM	11/10/21 10:01
5M118402.D	CAL BNA@0.5PP	11/10/21 10:25
5M118403.D	CAL BNA@50PPM	11/10/21 10:49
5M118404.D	BNA@50PPM	11/10/21 11:47
5M118405.D	ICV BNA@50PPM	11/10/21 12:37

Data Path : G:\GcMsData\2021\GCMS_5\Data\11-10-21\
Data File : 5M118394.D
Acq On : 10 Nov 2021 7:13
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1109.M
Title : @GCMS_5,mg,625,8270
Last Update : Tue Nov 09 12:44:11 2021



Spectrum Information: Average of 9.941 to 9.952 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.4	26352	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.4	29432	PASS
70	69	0.00	2	0.6	191	PASS
127	198	40	60	49.3	37832	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76688	PASS
199	198	5	9	6.8	5217	PASS
275	198	10	30	22.9	17524	PASS
365	198	1	100	3.1	2351	PASS
441	443	0.01	100	81.9	8780	PASS
442	198	40	100	71.4	54755	PASS
443	442	17	23	19.6	10726	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109528.D
Analysis Date: 11/12/21 08:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.119 to 10.130 min

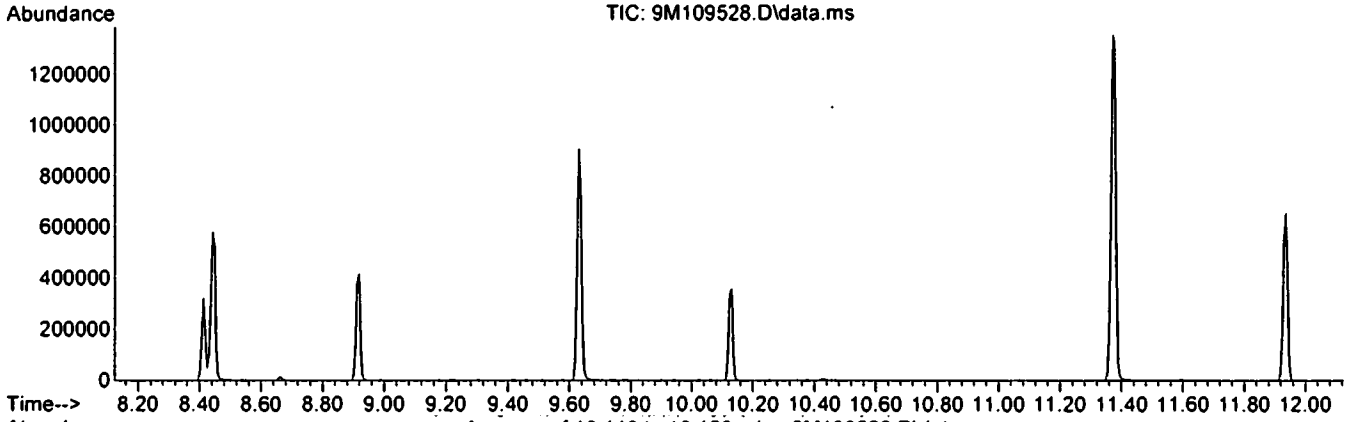
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

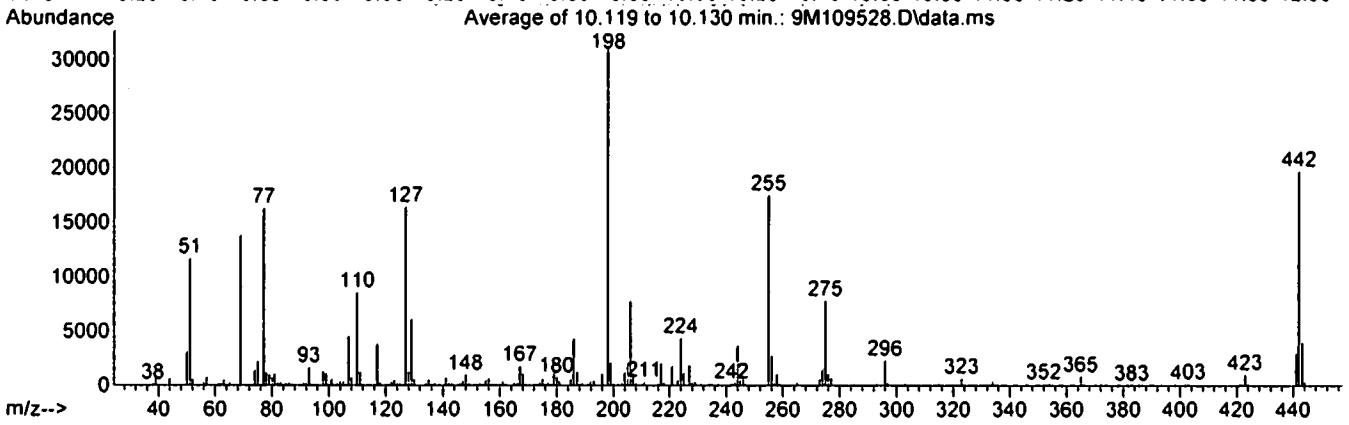
Data File	Sample Number	Analysis Date:
9M109529.D	CAL BNA@50PPM	11/12/21 08:27
9M109530.D	CAL BNA@50PPM	11/12/21 10:07
9M109531.D	CAL BNA@196PP	11/12/21 10:34
9M109532.D	CAL BNA@160PP	11/12/21 10:57
9M109533.D	CAL BNA@120PP	11/12/21 11:20
9M109534.D	CAL BNA@80PPM	11/12/21 11:43
9M109535.D	CAL BNA@10PPM	11/12/21 12:06
9M109536.D	CAL BNA@2PPM	11/12/21 12:29
9M109537.D	CAL BNA@20PPM	11/12/21 12:52
9M109538.D	CAL BNA@0.5PP	11/12/21 13:15
9M109539.D	ICV BNA@50PPM	11/12/21 13:39

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-12-21\
Data File : 9M109528.D
Acq On : 12 Nov 2021 8:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1110.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Nov 10 11:23:34 2021





Spectrum Information: Average of 10.119 to 10.130 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M118890.D
Analysis Date: 12/19/21 09:57
Method: EPA 8270E

Tune Scan/Time Range: Scan 1438

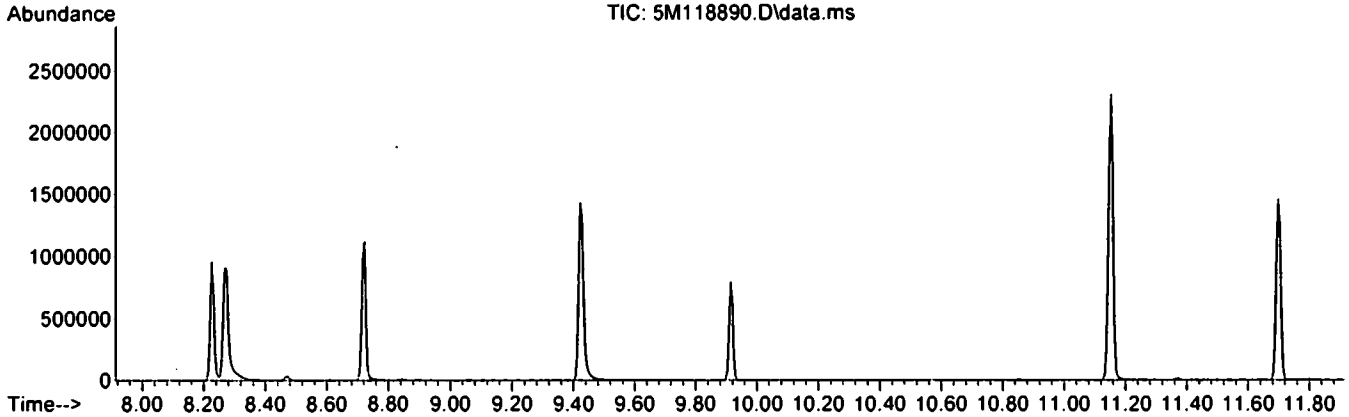
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	39.4	35392	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	38312	PASS
70	69	0.00	2	0.6	222	PASS
127	198	40	60	53.4	47944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	89824	PASS
199	198	5	9	7.1	6403	PASS
275	198	10	30	24.3	21856	PASS
365	198	1	100	3.0	2721	PASS
441	443	0.01	100	73.1	10021	PASS
442	198	40	100	75.5	67816	PASS
443	442	17	23	20.2	13706	PASS

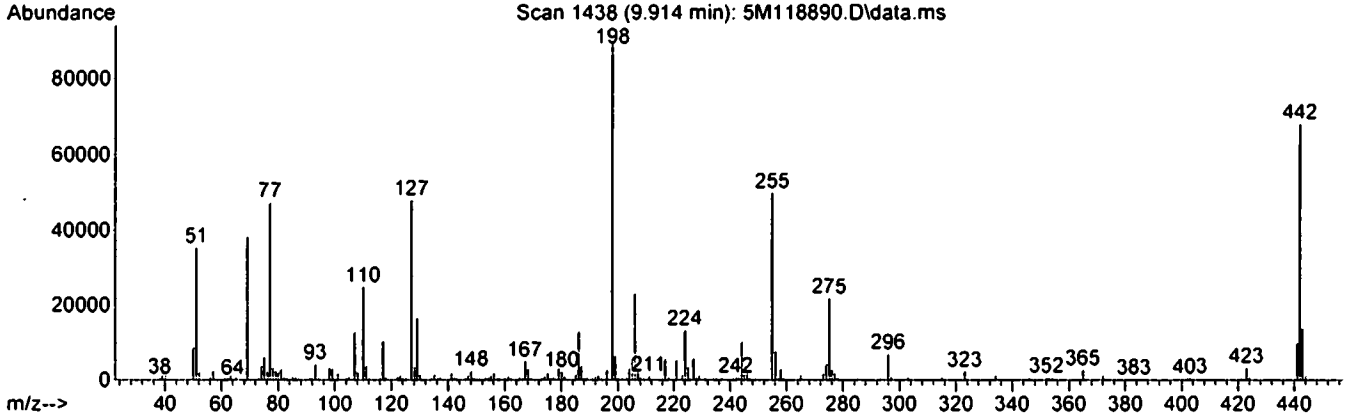
Data File	Sample Number	Analysis Date:
5M118891.D	CAL BNA@50PPM	12/19/21 10:23
5M118892.D	SMB95930	12/19/21 14:55
5M118893.D	SMB95930(MS)	12/19/21 15:18
5M118894.D	SMB95931(MS)	12/19/21 15:42
5M118895.D	SMB95931	12/19/21 16:05
5M118896.D	AD27882-001	12/19/21 16:29
5M118897.D	AD27882-002	12/19/21 16:52
5M118898.D	AD27882-003	12/19/21 17:16
5M118899.D	AD27882-005	12/19/21 17:40
5M118900.D	AD27882-007	12/19/21 18:04
5M118901.D	AD27849-014	12/19/21 18:27
5M118902.D	AD27774-002	12/19/21 18:51
5M118903.D	AD27774-003	12/19/21 19:15
5M118904.D	AD27849-008	12/19/21 19:38
5M118905.D	AD27849-012	12/19/21 20:02
5M118906.D	AD27882-013	12/19/21 20:26
5M118907.D	AD27785-001	12/19/21 20:49

Data Path : G:\GcMsData\2021\GCMS_5\Data\12-19-21\
Data File : 5M118890.D
Acq On : 19 Dec 2021 9:57
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1110.M
Title : @GCMS_5,mg,625,8270
Last Update : Wed Nov 10 11:06:55 2021





Spectrum Information: Scan 1438

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.4	35392	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	38312	PASS
70	69	0.00	2	0.6	222	PASS
127	198	40	60	53.4	47944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	89824	PASS
199	198	5	9	7.1	6403	PASS
275	198	10	30	24.3	21856	PASS
365	198	1	100	3.0	2721	PASS
441	443	0.01	100	73.1	10021	PASS
442	198	40	100	75.5	67816	PASS
443	442	17	23	20.2	13706	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M110204.D
Analysis Date: 12/19/21 16:24
Method: EPA 8270E

Tune Scan/Time Range: Scan 1306

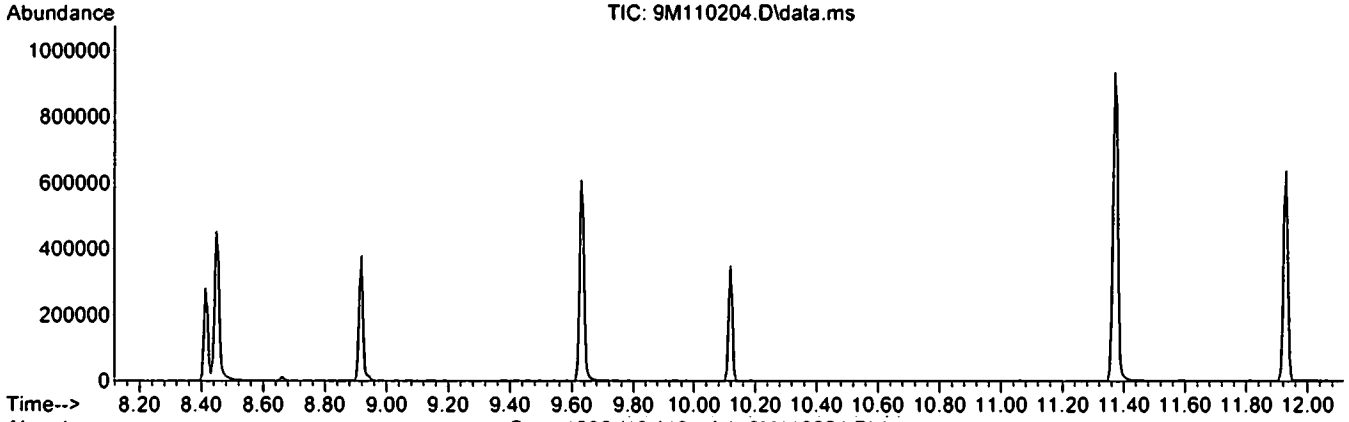
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	36.4	14909	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	17496	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.1	20536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	41000	PASS
199	198	5	9	6.6	2695	PASS
275	198	10	30	25.7	10540	PASS
365	198	1	100	2.9	1178	PASS
441	443	0.01	100	78.0	4296	PASS
442	198	40	100	63.6	26080	PASS
443	442	17	23	21.1	5511	PASS

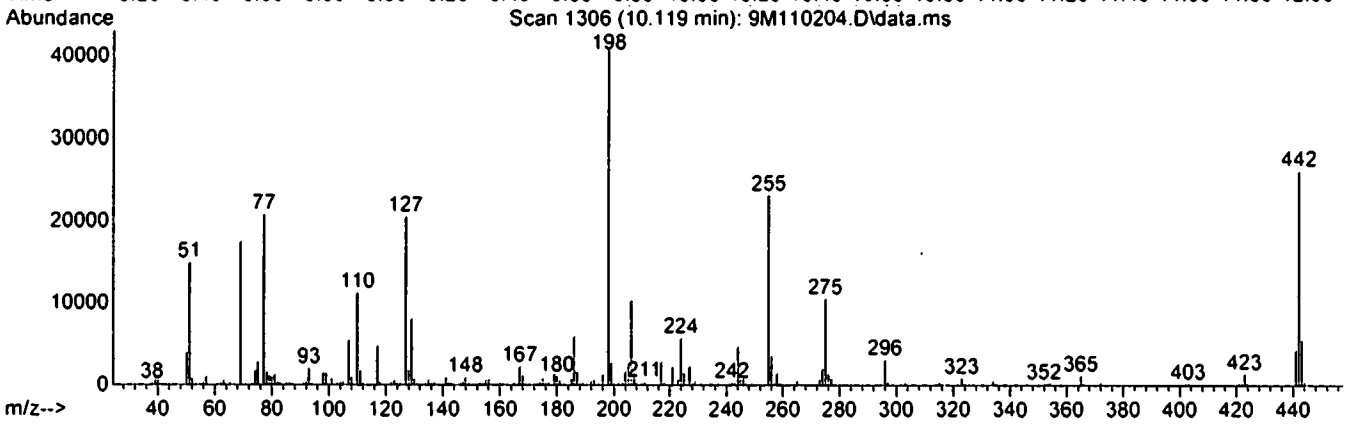
Data File	Sample Number	Analysis Date:
9M110205.D	CAL BNA@50PPM	12/19/21 16:43
9M110206.D	AD27774-001	12/19/21 17:08
9M110207.D	AD27774-001(MS)	12/19/21 17:31
9M110208.D	AD27774-001(MSD	12/19/21 17:54
9M110209.D	AD27785-002	12/19/21 18:18
9M110210.D	AD27785-002(MS)	12/19/21 18:41
9M110211.D	AD27785-002(MSD	12/19/21 19:04
9M110212.D	AD27878-008	12/19/21 19:27
9M110213.D	AD27854-006	12/19/21 19:51
9M110214.D	AD27855-002	12/19/21 20:14
9M110215.D	AD27855-004	12/19/21 20:37
9M110216.D	AD27855-006	12/19/21 21:00
9M110217.D	AD27856-002	12/19/21 21:23
9M110218.D	AD27856-004	12/19/21 21:47
9M110219.D	AD27856-006	12/19/21 22:10
9M110220.D	AD27857-002	12/19/21 22:33
9M110221.D	AD27857-004	12/19/21 22:56
9M110222.D	AD27857-006	12/19/21 23:19
9M110223.D	AD27858-002	12/19/21 23:42
9M110224.D	AD27858-004	12/20/21 00:06
9M110225.D	AD27858-006	12/20/21 00:29
9M110226.D	AD27859-002	12/20/21 00:52
9M110227.D	AD27859-004	12/20/21 01:15
9M110228.D	AD27859-006	12/20/21 01:38
9M110229.D	AD27909-001	12/20/21 02:02
9M110230.D	AD27850-003	12/20/21 02:25
9M110231.D	AD27761-004(3X)	12/20/21 02:48
9M110232.D	AD27761-005(3X)	12/20/21 03:11
9M110233.D	AD27762-007(3X)	12/20/21 03:34
9M110234.D	AD27762-008(3X)	12/20/21 03:58
9M110235.D	AD27716-002(3X)(	12/20/21 04:21

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-1921\
Data File : 9M110204.D
Acq On : 19 Dec 2021 16:24
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1112.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Nov 12 13:36:55 2021





Spectrum Information: Scan 1306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.4	14909	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	17496	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.1	20536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	41000	PASS
199	198	5	9	6.6	2695	PASS
275	198	10	30	25.7	10540	PASS
365	198	1	100	2.9	1178	PASS
441	443	0.01	100	78.0	4296	PASS
442	198	40	100	63.6	26080	PASS
443	442	17	23	21.1	5511	PASS

1120805 0123

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_5

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118403.D	CAL BNA@50PPM	11/10/21 10:49	2	5M118396.D	CAL BNA@2PPM	11/10/21 08:00
3	5M118395.D	CAL BNA@10PPM	11/10/21 07:37	4	5M118401.D	CAL BNA@20PPM	11/10/21 10:01
5	5M118400.D	CAL BNA@80PPM	11/10/21 09:37	6	5M118399.D	CAL BNA@120PPM	11/10/21 09:13
7	5M118398.D	CAL BNA@160PPM	11/10/21 08:49	8	5M118397.D	CAL BNA@196PPM	11/10/21 08:26
9	5M118402.D	CAL BNA@0.5PPM	11/10/21 10:25				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	1.0165	0.8522	1.0420	1.0959	1.0216	0.9940	0.9826	1.0449	1.0416	1.01	2.58	0.998	0.999	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0739	1.6718	1.6900	2.0524	2.1662	2.1229	2.1133	2.1451	----	2.00	3.03	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4963	1.4684	1.3619	1.5301	1.5560	1.5102	1.4930	1.5341	----	1.49	2.97	1.00	1.00	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.3997	1.3902	1.2909	1.4225	1.5185	1.4711	1.4504	1.5009	----	1.43	4.57	0.999	0.999	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.2379	1.1853	1.2049	1.3172	1.2756	1.2516	1.2113	1.1759	----	1.23	5.41	0.998	1.00	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.3220	2.1406	2.0754	2.4145	2.3804	2.3147	2.2442	2.2874	3.3610	2.39	5.50	0.999	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.5309	0.5467	0.5298	0.5645	0.5484	0.5320	0.5283	0.5373	----	0.540	5.54	1.00	1.00	2.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.5606	1.7413	1.5133	1.6829	1.6241	1.5623	1.4985	1.5467	2.3920	1.68	5.55	0.999	0.999	17	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	1.8305	1.7982	1.6085	1.8667	1.9069	1.8579	1.7971	1.8118	----	1.81	5.46	0.999	1.00	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.1520	2.0654	1.9806	2.2316	2.2191	2.1491	2.1028	2.1343	----	2.13	5.47	1.00	1.00	3.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.4723	1.3741	1.3579	1.5379	1.5289	1.4992	1.4564	1.4776	----	1.46	5.59	1.00	1.00	4.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.4950	1.5615	1.4495	1.5969	1.5458	1.4999	1.4223	1.4574	----	1.50	5.64	0.999	0.999	4.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	1.5907	1.6692	1.5897	1.6830	1.6084	1.5742	1.5368	1.5949	----	1.61	5.73	0.999	0.999	3.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5119	1.6417	1.4968	1.5300	1.5139	1.4946	1.4890	1.6222	----	1.54	5.79	0.996	0.998	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4318	1.5496	1.3936	1.4222	1.4384	1.4282	1.3794	1.4808	----	1.44	5.91	0.998	0.998	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9468	0.7788	0.7621	0.9109	0.9811	0.9641	0.9341	0.9842	----	0.908	5.89	0.999	0.999	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.6200	1.6339	1.4377	1.5986	1.6175	1.5363	1.4984	1.5615	----	1.56	6.00	0.999	0.999	4.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3294	1.2317	1.1720	1.3025	1.3687	1.3261	1.2788	1.3908	1.9368	1.37	5.98	0.997	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8988	1.9387	1.8277	1.9162	1.9247	1.8089	1.7336	1.8329	----	1.86	6.11	0.999	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6071	0.6215	0.5939	0.5959	0.6156	0.6031	0.5923	0.6534	----	0.610	6.19	0.996	0.997	3.3	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0216	0.9372	0.9384	1.0087	1.0328	0.9791	0.9366	0.9680	1.3037	1.01	6.11	0.999	0.999	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3493	1.2005	1.2269	1.3384	1.3987	1.3297	1.2660	1.3351	1.7949	1.36	6.10	0.998	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1501	0.1316	0.1318	0.1543	0.1536	0.1560	0.1543	0.1551	----	0.148	6.23	1.00	1.00	7.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3618	0.3482	0.3323	0.3693	0.3715	0.3603	0.3598	0.3628	----	0.358	6.24	1.00	1.00	3.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6945	0.6326	0.6089	0.7007	0.7008	0.7031	0.6759	0.6967	----	0.677	6.43	0.999	0.999	5.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1621	0.0986	0.1198	0.1560	0.1715	0.1745	0.1712	0.1741	----	0.154	6.49	0.999	0.999	19	0.10 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3609	0.3119	0.3033	0.3552	0.3551	0.3543	0.3441	0.3637	0.4499	0.355	6.52	0.999	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1611	----	0.0293	0.1233	0.2133	0.2204	0.2311	0.2310	----	0.173	6.59	0.998	0.999	43		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4147	0.4158	0.3796	0.4339	0.4228	0.4205	0.4068	0.4237	----	0.415	6.59	0.999	0.999	3.9	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2761	0.2305	0.2303	0.2692	0.2789	0.2757	0.2714	0.2890	0.3306	0.272	6.67	0.999	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3114	0.3301	0.2970	0.3160	0.3082	0.3083	0.2995	0.3279	----	0.312	6.74	0.996	0.998	3.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0301	1.0943	0.9654	1.0538	1.0280	1.0124	0.9737	1.0311	1.5549	1.08	6.80	0.999	0.999	17	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4154	0.3567	0.3254	0.4212	0.3989	0.3942	0.3802	0.3830	0.5355	0.401	6.84	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1767	0.1824	0.1603	0.1809	0.1732	0.1740	0.1708	0.1826	----	0.175	6.89	0.998	0.999	4.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1061	0.0541	0.0696	0.1028	0.1075	0.1092	0.1148	0.1214	----	0.0982	7.11	0.997	1.00	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2899	0.2262	0.2290	0.2856	0.2948	0.2972	0.2869	0.3044	----	0.277	7.19	0.999	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6663	0.6705	0.6202	0.6871	0.6700	0.6790	0.6534	0.7016	----	0.669	7.33	0.998	0.998	3.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6277	0.6238	0.5953	0.6577	0.6177	0.6332	0.6095	0.6499	----	0.627	7.41	0.998	0.999	3.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6462	0.6472	0.6044	0.6691	0.6426	0.6532	0.6295	0.6738	----	0.646	7.33	0.999	0.999	3.4		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8317	0.8341	0.7690	0.8235	0.8136	0.8115	0.7824	0.8393	----	0.813	7.70	0.998	0.998	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6108	0.6043	0.5950	0.6313	0.6206	0.6192	0.5986	0.6300	----	0.614	7.46	0.999	0.999	2.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120805 0124

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M118403.D	CAL BNA@50PPM	11/10/21 10:49	2	5M118396.D	CAL BNA@2PPM	11/10/21 08:00
3	5M118395.D	CAL BNA@10PPM	11/10/21 07:37	4	5M118401.D	CAL BNA@20PPM	11/10/21 10:01
5	5M118400.D	CAL BNA@80PPM	11/10/21 09:37	6	5M118399.D	CAL BNA@120PPM	11/10/21 09:13
7	5M118398.D	CAL BNA@160PPM	11/10/21 08:49	8	5M118397.D	CAL BNA@196PPM	11/10/21 08:26
9	5M118402.D	CAL BNA@0.5PPM	11/10/21 10:25				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.2983	0.1720	0.2182	0.2746	0.3340	0.3402	0.3351	0.3511	----	0.290	7.45	0.999	0.999	22	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Qua	0.3804	0.2453	0.3131	0.3870	0.3864	0.4126	0.4012	0.4120	----	0.367	7.55	0.999	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4067	0.2818	0.3313	0.3967	0.4446	0.4175	0.4150	0.4253	----	0.390	7.58	0.999	0.999	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4448	1.4548	1.3261	1.4632	1.4508	1.4546	1.4144	1.4547	----	1.43	7.62	1.00	1.00	3.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2602	1.2575	1.1571	1.2864	1.2519	1.2691	1.1939	1.2413	----	1.24	7.73	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0386	1.0391	0.9682	1.0813	1.0438	1.0122	0.9637	0.9787	----	1.02	8.01	0.999	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0386	1.0391	0.9682	1.0813	1.0438	1.0122	0.9637	0.9787	----	1.02	8.01	0.999	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8652	0.8682	0.7933	0.8948	0.8723	0.8711	0.8310	0.8599	----	0.857	7.79	0.999	0.999	3.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4392	0.3373	0.3585	0.4407	0.4477	0.4574	0.4371	0.4405	----	0.420	7.81	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5036	0.4677	0.4629	0.5180	0.5119	0.5018	0.4754	0.4790	----	0.490	7.99	0.999	1.00	4.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8826	1.8152	1.7467	1.9339	1.8702	1.8812	1.7757	1.8756	----	1.85	8.09	0.999	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3524	1.3311	1.2543	1.4202	1.3954	1.3849	1.3198	1.3778	----	1.35	7.95	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3012	0.2572	0.2611	0.3130	0.3047	0.2985	0.2907	0.2908	----	0.290	8.01	0.999	1.00	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2271	1.2594	1.1300	1.2473	1.2091	1.2261	1.1916	1.2435	----	1.22	8.24	0.999	0.999	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3557	0.2445	0.2749	0.3597	0.3537	0.3592	0.3425	0.3443	----	0.329	8.16	0.999	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0959	----	0.0404	0.0803	0.1370	0.1462	0.1505	0.1524	----	0.115	8.25	0.997	0.997	38	0.20	a 50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7322	1.8089	1.6523	1.7933	1.7184	1.6765	1.6534	1.7224	2.6386	1.82	8.39	0.999	0.999	17	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3937	0.2527	0.3246	0.3893	0.4136	0.4174	0.4026	0.4283	----	0.378	8.36	0.998	0.999	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2432	0.0814	0.1427	0.2189	0.2693	0.2731	0.2595	0.2737	----	0.220	8.28	0.998	0.998	32	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3476	0.1898	0.2658	0.3388	0.3568	0.3565	0.3440	0.3638	----	0.320	8.49	0.999	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3977	1.3587	1.2847	1.4077	1.4214	1.3845	1.3652	1.4025	----	1.38	8.71	1.00	1.00	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6764	0.6526	0.6358	0.6910	0.6949	0.6776	0.6789	0.6903	----	0.675	8.70	1.00	1.00	3.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3326	1.1712	1.1911	1.3395	1.4077	1.3730	1.3235	1.3385	----	1.31	8.58	0.999	1.00	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3735	0.2422	0.2951	0.3779	0.3969	0.3879	0.3805	0.3939	----	0.356	8.72	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3691	0.2607	0.2937	0.3794	0.3923	0.3991	0.3935	0.3986	----	0.361	9.34	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0874	----	0.0459	0.0774	0.1066	0.1113	0.1153	0.1190	----	0.0947	8.74	0.997	0.999	28	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6572	0.5692	0.5561	0.6468	0.6428	0.6392	0.6345	0.6555	----	0.625	8.81	1.00	1.00	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1032	0.0571	0.0676	0.0964	0.1069	0.1080	0.1074	0.1127	----	0.0949	8.94	0.999	0.999	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7926	0.7666	0.7348	0.8310	0.8651	0.7790	0.8292	0.8433	----	0.805	8.86	0.999	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2069	0.1893	0.1915	0.2132	0.2114	0.2131	0.2123	0.2163	----	0.207	9.19	1.00	1.00	5.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2314	0.2460	0.2120	0.2376	0.2284	0.2299	0.2314	0.2381	----	0.232	9.25	0.999	1.00	4.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4474	0.3288	0.3685	0.4486	0.4421	0.4399	0.4270	0.4303	----	0.417	9.52	1.00	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1168	----	0.0587	0.0976	0.1336	0.1386	0.1466	0.1459	----	0.120	9.45	0.999	0.999	27	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0750	1.1223	1.0250	1.1005	1.0708	1.0904	1.0614	1.0980	----	1.08	9.69	1.00	1.00	2.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1129	1.0208	0.9953	1.1395	1.0712	1.1251	1.0691	1.1193	----	1.08	9.74	0.999	0.999	4.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0185	0.9073	0.8842	1.0323	1.0042	1.0094	0.9954	1.0313	----	0.985	9.91	0.999	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.2041	0.7059	0.8671	1.1769	1.1975	1.2286	1.1984	1.2177	1.0833	1.10	10.29	1.00	1.00	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1959	0.9570	0.9924	1.1810	1.1851	1.2072	1.1894	1.2522	----	1.15	11.02	0.999	0.999	9.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3151	1.2069	1.1968	1.3234	1.3100	1.3169	1.3065	1.3211	----	1.29	11.28	1.00	1.00	4.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7680	0.1275	0.1625	0.7101	0.7964	0.7608	0.7287	0.6834	----	0.592	11.18	0.990	0.992	47		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6752	0.5964	0.5736	0.6851	0.6870	0.6879	0.6828	0.7157	----	0.663	11.46	0.999	0.999	7.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120805 0125

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118403.D	CAL BNA@50PPM	11/10/21 10:49	2	5M118396.D	CAL BNA@2PPM	11/10/21 08:00
3	5M118395.D	CAL BNA@10PPM	11/10/21 07:37	4	5M118401.D	CAL BNA@20PPM	11/10/21 10:01
5	5M118400.D	CAL BNA@80PPM	11/10/21 09:37	6	5M118399.D	CAL BNA@120PPM	11/10/21 09:13
7	5M118398.D	CAL BNA@160PPM	11/10/21 08:49	8	5M118397.D	CAL BNA@196PPM	11/10/21 08:26
9	5M118402.D	CAL BNA@0.5PPM	11/10/21 10:25				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd			Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2617	0.2372	0.2289	0.2601	0.2717	0.2718	0.2752	0.2897	----	0.262	11.40	0.998	1.00	7.7			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4615	0.3529	0.3732	0.4554	0.4722	0.4845	0.4656	0.4920	----	0.445	11.80	0.999	0.999	12			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5397	0.1766	0.2779	0.5136	0.5755	0.5787	0.5792	0.5902	----	0.479	12.06	1.00	1.00	33	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Qua	0.3621	0.1604	0.2283	0.3321	0.3858	0.3951	0.4002	0.4119	----	0.335	12.16	0.999	1.00	27			50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4687	0.1173	0.1895	0.4488	0.4843	0.4785	0.4619	0.4443	----	0.387	12.68	0.995	0.996	38	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2255	1.1379	1.0840	1.2432	1.2439	1.2602	1.2425	1.2946	----	1.22	12.70	0.999	1.00	5.7	0.80		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1908	1.2418	1.1575	1.2446	1.2100	1.2005	1.1795	1.2248	----	1.21	12.75	0.999	1.00	2.5	0.70		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7638	0.2515	0.3748	0.7333	0.8181	0.8084	0.8010	0.8049	----	0.670	12.75	0.999	1.00	33	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1240	0.2829	0.4140	0.9744	1.2094	1.2261	1.1765	1.2729	----	0.960	13.49	0.997	0.998	41	0.01		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Qua	1.0076	0.5920	0.7500	1.0263	1.1722	1.1399	1.1684	1.1649	----	1.00	13.92	0.998	0.998	22	0.70	a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0696	1.1573	1.1398	1.1410	1.1433	1.1383	1.1142	1.0467	----	1.12	13.94	0.997	0.999	3.5	0.70		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0679	0.6785	0.9891	1.1000	1.0585	1.1009	1.0654	1.1204	----	1.02	14.26	0.999	0.999	14	0.70	a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1642	0.8025	0.9156	1.1462	1.2271	1.2500	1.2164	1.3227	----	1.13	15.62	0.998	0.999	16	0.50		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0169	0.6599	0.7666	0.9755	1.0605	1.0700	1.0470	1.1148	----	0.964	15.64	0.998	0.999	17	0.40		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9794	0.7956	0.8307	0.9625	1.0286	1.0284	1.0093	1.0784	----	0.964	15.99	0.998	0.999	10	0.50		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9624	1.0385	0.9669	0.9852	1.0105	0.9840	0.9623	1.0374	1.2738	1.02	2.79	0.999	0.999	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0486	1.9170	1.8713	2.0691	2.2124	2.2284	2.2238	2.3593	----	2.12	3.24	0.998	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5844	1.4491	1.4539	1.5611	1.6550	1.6441	1.6192	1.7263	----	1.59	3.19	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2576	2.2947	2.1426	2.2439	2.3506	2.3554	2.3159	2.4717	----	2.30	4.73	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9817	2.0459	1.9007	1.9986	2.0301	1.9700	1.8467	1.8743	----	1.96	5.56	0.998	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	3.6724	3.8218	3.6170	3.8109	3.8797	3.8028	3.7243	3.9384	5.9717	4.03	5.65	0.999	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8220	0.8160	0.8000	0.8246	0.8651	0.8584	0.8408	0.8950	----	0.840	5.69	0.998	0.999	3.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4993	2.5870	2.4254	2.5484	2.6034	2.5521	2.4368	2.6078	3.7688	2.67	5.71	0.998	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9070	2.7980	2.7604	2.9117	3.0575	3.0437	2.9845	3.1500	----	2.95	5.60	0.999	0.999	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4390	3.4392	3.2937	3.4793	3.5934	3.5717	3.4979	3.7009	----	3.50	5.61	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4405	2.3875	2.3479	2.4739	2.5552	2.5234	2.4667	2.6111	----	2.48	5.75	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.4001	2.4737	2.3574	2.4726	2.5051	2.4558	2.3701	2.4693	----	2.44	5.79	0.999	0.999	2.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6183	2.7799	2.5364	2.6789	2.7404	2.7154	2.6342	2.7741	----	2.68	5.88	0.999	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5135	1.5618	1.4460	1.5151	1.5577	1.5799	1.5269	1.6228	----	1.54	5.94	0.998	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4241	1.4528	1.3670	1.4209	1.4569	1.4820	1.4296	1.5216	----	1.44	6.07	0.998	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9354	0.7923	0.8570	0.8927	0.9735	0.9931	0.9729	1.0312	----	0.931	6.04	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5245	1.6342	1.5016	1.5422	1.5529	1.5613	1.5181	1.6110	----	1.56	6.15	0.999	0.999	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2790	1.1876	1.1809	1.2453	1.3187	1.3446	1.3138	1.3888	1.8577	1.35	6.12	0.999	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8684	1.9327	1.8087	1.8489	1.9011	1.8899	1.7528	1.7972	----	1.85	6.25	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5577	0.5501	0.5271	0.5475	0.5722	0.5824	0.5669	0.6033	----	0.563	6.34	0.999	1.00	4.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0350	0.9675	0.9599	1.0188	1.0591	1.0389	0.9623	0.9938	1.5420	1.06	6.25	0.998	0.999	17	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3738	1.2322	1.2398	1.3105	1.4009	1.3982	1.3041	1.3519	1.8559	1.39	6.25	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Qua	0.1282	0.1135	0.1167	0.1295	0.1464	0.1518	0.1511	0.1602	----	0.137	6.38	0.997	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Qua	0.3349	0.2940	0.3027	0.3287	0.3598	0.3626	0.3578	0.3710	----	0.339	6.40	0.999	1.00	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6882	0.6448	0.6339	0.6649	0.7011	0.6990	0.6882	0.7195	----	0.680	6.58	0.999	0.999	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1380	0.1026	0.1181	0.1310	0.1649	0.1706	0.1717	0.1775	----	0.147	6.64	0.995	0.999	19	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3471	0.3040	0.3130	0.3362	0.3515	0.3547	0.3509	0.3663	0.4496	0.353	6.66	0.999	1.00	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1785	----	0.1050	0.1306	0.2381	0.2357	0.2493	0.2565	----	0.199	6.72	0.997	0.998	31		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4129	0.4087	0.3835	0.4010	0.4125	0.4165	0.4042	0.4268	----	0.408	6.74	0.999	0.999	3.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2724	0.2294	0.2416	0.2598	0.2788	0.2816	0.2806	0.2955	0.3159	0.273	6.82	0.999	1.00	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2961	0.3028	0.2757	0.2922	0.2980	0.3014	0.2951	0.3090	----	0.296	6.89	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.0470	1.0755	0.9996	1.0490	1.0627	1.0544	1.0167	1.0556	1.6962	1.12	6.95	0.999	0.999	20	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4019	0.3916	0.3841	0.3984	0.4122	0.4073	0.3911	0.3987	0.5999	0.421	6.99	0.999	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1664	0.1811	0.1564	0.1684	0.1698	0.1708	0.1669	0.1756	----	0.169	7.04	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1028	0.0763	0.0903	0.0990	0.1078	0.1095	0.1092	0.1134	----	0.101	7.26	0.999	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2790	0.2360	0.2456	0.2686	0.2917	0.2961	0.2962	0.3115	----	0.278	7.35	0.999	1.00	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6944	0.6771	0.6494	0.6875	0.7097	0.7020	0.6815	0.7064	----	0.689	7.50	0.999	0.999	2.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6359	0.6332	0.5994	0.6464	0.6485	0.6492	0.6300	0.6543	----	0.637	7.58	0.999	0.999	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6646	0.6552	0.6244	0.6640	0.6791	0.6756	0.6562	0.6804	----	0.662	7.50	0.999	0.999	2.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8181	0.8439	0.7751	0.8068	0.8353	0.8250	0.7981	0.8291	----	0.816	7.87	0.999	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6260	0.6195	0.5745	0.6187	0.6385	0.6449	0.6256	0.6543	----	0.625	7.62	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.84

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3487	0.2175	0.2510	0.2846	0.3547	0.3672	0.3633	0.3825	----	0.321	7.61	0.999	0.999	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3951	0.3254	0.3304	0.3732	0.4680	0.4450	0.4280	0.4408	----	0.401	7.71	0.998	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4129	0.3291	0.3665	0.3779	0.4389	0.4465	0.4444	0.4589	----	0.409	7.74	0.999	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4618	1.5140	1.3749	1.4569	1.4905	1.5099	1.4993	1.5684	----	1.48	7.78	0.999	1.00	3.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2532	1.2243	1.1694	1.2342	1.2757	1.2716	1.2471	1.3053	----	1.25	7.90	1.00	1.00	3.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8957	0.8725	0.8277	0.8857	0.9200	0.9223	0.8954	0.9455	----	0.896	7.96	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.4092	0.2887	0.3381	0.3846	0.4465	0.4466	0.4453	0.4696	----	0.404	7.97	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5229	0.4865	0.4837	0.5100	0.5299	0.5411	0.5265	0.5415	----	0.518	8.16	1.00	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	2.0049	1.8122	1.7868	1.9733	2.0282	2.0438	1.9827	2.0551	----	1.96	8.26	1.00	1.00	5.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3643	1.3293	1.2827	1.3547	1.4004	1.4241	1.3904	1.4616	----	1.38	8.12	0.999	0.999	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Qua	0.2782	0.1388	0.2329	0.2784	0.3131	0.3074	0.2911	0.2979	----	0.267	8.18	0.998	0.999	22	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2908	1.2738	1.2124	1.2642	1.3286	1.3155	1.2716	1.3292	----	1.29	8.41	0.999	0.999	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3201	0.1950	0.2774	0.3205	0.3632	0.3617	0.3575	0.3700	----	0.321	8.33	0.999	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0869	----	0.0451	0.0618	0.1087	0.1195	0.1271	0.1374	----	0.0981	8.42	0.990	0.999	35	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7827	1.7455	1.6620	1.7503	1.8030	1.7994	1.7598	1.8414	2.7555	1.88	8.57	0.999	0.999	18	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3137	0.1515	0.2380	0.3005	0.3764	0.3932	0.3922	0.4181	----	0.323	8.54	0.997	0.999	28	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2423	0.0971	0.1858	0.2265	0.2770	0.2835	0.2825	0.2919	----	0.236	8.45	0.997	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3371	0.2342	0.2888	0.3203	0.3628	0.3754	0.3688	0.3905	----	0.335	8.67	0.998	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4784	1.3492	1.3467	1.4529	1.5101	1.5068	1.4451	1.5090	----	1.45	8.90	0.999	0.999	4.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6835	0.6653	0.6452	0.6744	0.7039	0.7095	0.6878	0.7234	----	0.687	8.88	0.999	1.00	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3517	1.2321	1.2382	1.3373	1.3846	1.3999	1.3726	1.4466	----	1.35	8.75	0.999	0.999	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3794	0.2108	0.2963	0.3488	0.4084	0.4144	0.4054	0.4252	----	0.361	8.90	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3785	0.2738	0.3162	0.3638	0.3982	0.4039	0.4031	0.4274	----	0.371	9.52	0.998	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0667	----	0.0384	0.0522	0.0847	0.0942	0.0973	0.1028	----	0.0767	8.92	0.996	0.999	32	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6667	0.6137	0.6067	0.6608	0.6785	0.6906	0.6588	0.6918	----	0.659	9.00	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0970	0.0638	0.0758	0.0921	0.1065	0.1096	0.1083	0.1145	----	0.0960	9.12	0.998	0.999	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8028	0.7355	0.7308	0.7920	0.8132	0.8254	0.7892	0.9078	----	0.800	9.04	0.996	0.998	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2120	0.1905	0.1888	0.2081	0.2178	0.2263	0.2184	0.2324	----	0.212	9.38	0.998	0.999	7.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2245	0.2244	0.2147	0.2256	0.2310	0.2348	0.2274	0.2413	----	0.228	9.44	0.999	0.999	3.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4526	0.3055	0.3705	0.4318	0.4571	0.4645	0.4379	0.4491	----	0.421	9.71	0.999	0.999	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1263	----	0.0853	0.1072	0.1391	0.1479	0.1477	0.1591	----	0.130	9.64	0.997	0.999	20	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1071	1.1074	1.0299	1.1076	1.1353	1.1443	1.0920	1.1436	----	1.11	9.88	0.999	0.999	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1346	1.0159	1.0256	1.1238	1.1722	1.1868	1.1336	1.1875	----	1.12	9.94	0.999	0.999	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0534	0.9433	0.9530	1.0382	1.0852	1.1119	1.0591	1.1128	----	1.04	10.11	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2114	0.8511	0.9817	1.1298	1.2483	1.2889	1.2345	1.3030	1.0518	1.14	10.48	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1959	0.9746	1.0118	1.1427	1.2390	1.2665	1.2179	1.2875	----	1.17	11.22	0.999	0.999	10	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3132	1.1788	1.1981	1.2929	1.3442	1.3431	1.2920	1.3431	----	1.29	11.49	0.999	0.999	5.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.8253	0.4771	0.6651	0.7903	0.8780	0.8544	0.7833	0.7829	----	0.757	11.37	0.997	0.999	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6634	0.6183	0.6068	0.6496	0.6918	0.6974	0.6818	0.7365	----	0.668	11.67	0.997	0.998	6.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.84

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2581	0.2208	0.2294	0.2433	0.2702	0.2731	0.2697	0.2863	-----	0.256	11.60	0.998	0.999	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4522	0.3175	0.3732	0.4153	0.4680	0.4770	0.4645	0.4853	-----	0.432	12.00	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5453	0.3020	0.4116	0.4853	0.5681	0.5833	0.5740	0.6049	-----	0.509	12.25	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Qua	0.4090	0.2028	0.2947	0.3479	0.4261	0.4307	0.4170	0.4371	-----	0.371	12.36	0.999	0.999	23		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4707	0.3390	0.4080	0.4666	0.5043	0.5014	0.4845	0.4970	-----	0.459	12.88	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2591	1.2310	1.1698	1.2516	1.2936	1.2988	1.2576	1.3003	-----	1.26	12.91	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.2559	1.2566	1.1720	1.2439	1.2635	1.2542	1.1614	1.2167	-----	1.23	12.95	0.998	0.998	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.8253	0.4720	0.6343	0.7437	0.8454	0.8517	0.8063	0.8387	-----	0.752	12.95	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1854	0.4944	0.7883	0.9702	1.2565	1.3146	1.2879	1.3756	-----	1.08	13.70	0.998	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1382	0.9772	1.0034	1.1964	1.1841	1.1931	1.1967	1.3067	-----	1.15	14.13	0.996	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1500	1.0463	1.0559	1.0442	1.1920	1.1748	1.1730	1.1903	-----	1.13	14.16	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1147	0.8795	0.9429	1.0377	1.1501	1.1895	1.1504	1.2288	-----	1.09	14.50	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2675	0.9839	1.0523	1.1561	1.3126	1.3716	1.3462	1.4405	-----	1.24	15.94	0.998	0.999	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0392	0.8025	0.8707	0.9504	1.0752	1.1191	1.1030	1.1768	-----	1.02	15.97	0.998	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0437	0.8741	0.9013	0.9750	1.0721	1.1133	1.0879	1.1694	-----	1.03	16.34	0.998	0.999	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.84
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 5M118891.D Instrument: GCMS 5

Cont Calibration Date/Time 12/19/2021 10:23:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.52	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.56	54.95	50	**		1.010	1.110	9.90	
Pyridine	1	0		3.00	52.96	50	**		2.005	2.123	5.91	
N-Nitrosodimethylamine	1	0		2.95	52.84	50	**		1.494	1.579	5.67	
2-Fluorophenol	1	0	S	4.56	51.36	50	**		1.431	1.469	2.71	
Benzaldehyde	1	0		5.38	52.64	50	20	0.01	1.233	1.298	5.28	
Aniline	1	0		5.47	48.01	50	**		2.393	2.298	3.97	
Pentachloroethane	1	0		5.52	49.86	50	**	0.05	0.540	0.538	0.27	
bis(2-Chloroethyl)ether	1	0		5.53	47.69	50	20	0.7	1.680	1.603	4.61	
Phenol-d5	1	0	S	5.44	51.40	50	**		1.810	1.861	2.81	
Phenol	1	0		5.45	52.20	50	20	0.8	2.129	2.223	4.41	
2-Chlorophenol	1	0		5.58	50.72	50	20	0.8	1.463	1.484	1.44	
N-Decane	1	0		5.61	55.75	50	**	0.05	1.504	1.677	11.51	
1,3-Dichlorobenzene	1	0		5.70	50.29	50	**		1.606	1.615	0.59	
1,4-Dichlorobenzene-d4	1	0	I	5.76	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.77	53.01	50	20		1.538	1.630	6.01	
1,2-Dichlorobenzene	1	0		5.90	53.27	50	**		1.441	1.535	6.54	
Benzyl alcohol	1	0		5.87	56.29	50	**		0.908	1.022	12.58	
bis(2-chloroisopropyl)ether	1	0		5.98	59.63	50	20	0.01	1.563	1.864	19.25	
2-Methylphenol	1	0		5.96	51.33	50	20	0.7	1.371	1.407	2.66	
Acetophenone	1	0		6.09	55.87	50	20	0.01	1.860	2.079	11.74	
Hexachloroethane	1	0		6.17	53.01	50	20	0.3	0.610	0.647	6.02	
N-Nitroso-di-n-propylamine	1	0		6.08	54.86	50	20	0.5	1.014	1.113	9.72	
3&4-Methylphenol	1	0		6.09	55.14	50	20		1.360	1.500	10.28	
Naphthalene-d8	1	0	I	6.76	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.21	26.36	25	**		0.148	0.156	5.42	
Nitrobenzene	1	0		6.22	54.19	50	20	0.2	0.358	0.388	8.37	
Isophorone	1	0		6.41	53.73	50	20	0.4	0.677	0.727	7.46	
2-Nitrophenol	1	0		6.47	60.66	50	20	0.1	0.154	0.186	21.32	C1
2,4-Dimethylphenol	1	0		6.50	52.42	50	20	0.2	0.355	0.373	4.83	
Benzoic Acid	1	0		6.56	46.08	50	**		0.173	0.178	7.84	
bis(2-Chloroethoxy)methane	1	0		6.58	53.76	50	20	0.3	0.415	0.446	7.52	
2,4-Dichlorophenol	1	0		6.66	52.30	50	20	0.2	0.272	0.285	4.61	
1,2,4-Trichlorobenzene	1	0		6.72	52.49	50	**		0.312	0.328	4.99	
Naphthalene	1	0		6.78	48.95	50	20	0.7	1.083	1.060	2.11	
4-Chloroaniline	1	0		6.82	52.93	50	20	0.01	0.401	0.425	5.87	
Hexachlorobutadiene	1	0		6.86	51.35	50	20	0.01	0.175	0.180	2.71	
Caprolactam	1	0		7.09	55.75	50	20	0.01	0.098	0.114	11.50	
4-Chloro-3-methylphenol	1	0		7.18	54.34	50	20	0.2	0.277	0.301	8.67	
2-Methylnaphthalene	1	0		7.31	52.90	50	**	0.4	0.669	0.707	5.80	
1-Methylnaphthalene	1	0		7.39	52.86	50	**	0.4	0.627	0.663	5.73	
Methylnaphthalenes	1	0		7.31	105.44	50	**			1.362	110.87	
1,1'-Biphenyl	1	0		7.68	51.56	50	20	0.01	0.813	0.838	3.11	
Acenaphthene-d10	1	0	I	8.18	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.44	55.12	50	20	0.01	0.614	0.677	10.24	
Hexachlorocyclopentadiene	1	0		7.43	46.84	50	20	0.05	0.291	0.272	6.32	
2,4,6-Trichlorophenol	1	0		7.53	53.63	50	20	0.2	0.367	0.418	7.26	
2,4,5-Trichlorophenol	1	0		7.56	56.85	50	20	0.2	0.390	0.443	13.69	
2-Fluorobiphenyl	1	0	S	7.60	26.64	25	**		1.433	1.527	6.56	
2-Chloronaphthalene	1	0		7.71	53.55	50	20	0.8	1.240	1.328	7.10	
1,4-Dimethylnaphthalene	1	0		7.99	54.29	50	**		1.016	1.103	8.58	
Dimethylnaphthalenes	1	0		7.99	54.29	50	20			1.103	8.58	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 5M118891.D Instrument: GCMS 5

Cont Calibration Date/Time 12/19/2021 10:23:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.77	55.09	50	**		0.857	0.944	10.18	
2-Nitroaniline	1	0		7.79	56.33	50	20	0.01	0.420	0.473	12.67	
Coumarin	1	0		7.97	54.10		**		0.490			
Acenaphthylene	1	0		8.06	52.01	50	20	0.9	1.848	1.922	4.02	
Dimethylphthalate	1	0		7.93	52.00	50	20	0.01	1.355	1.409	4.00	
2,6-Dinitrotoluene	1	0		7.99	55.65	50	20	0.2	0.290	0.322	11.29	
Acenaphthene	1	0		8.21	52.08	50	20	0.9	1.217	1.267	4.15	
3-Nitroaniline	1	0		8.14	55.58	50	20	0.01	0.329	0.366	11.16	
2,4-Dinitrophenol	1	0		8.23	62.35	50	20	0.2	0.115	0.159	24.70	C1
Dibenzofuran	1	0		8.36	49.51	50	20	0.8	1.822	1.804	0.98	
2,4-Dinitrotoluene	1	0		8.34	57.37	50	20	0.2	0.378	0.434	14.74	
4-Nitrophenol	1	0		8.27	49.34	50	20	0.01	0.220	0.253	1.32	
2,3,4,6-Tetrachlorophenol	1	0		8.47	57.13	50	20	0.01	0.320	0.366	14.26	
Fluorene	1	0		8.69	52.78	50	20	0.9	1.378	1.454	5.55	
4-Chlorophenyl-phenylether	1	0		8.67	51.70	50	20	0.4	0.675	0.698	3.40	
Diethylphthalate	1	0		8.55	52.93	50	20	0.01	1.310	1.386	5.86	
4-Nitroaniline	1	0		8.70	55.32	50	20	0.01	0.356	0.394	10.64	
Atrazine	1	0		9.32	59.16	50	20	0.01	0.361	0.427	18.32	
Phenanthrene-d10	1	0	I	9.64	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.72	63.24	50	20	0.01	0.095	0.120	26.48	C1
n-Nitrosodiphenylamine	1	0		8.79	53.44	50	20	0.01	0.625	0.668	6.87	
2,4,6-Tribromophenol	1	0	S	8.92	57.06	50	**		0.095	0.118	14.11	
1,2-Diphenylhydrazine	1	0		8.83	52.12	50	**		0.805	0.839	4.25	
4-Bromophenyl-phenylether	1	0		9.16	53.07	50	20	0.1	0.207	0.219	6.14	
Hexachlorobenzene	1	0		9.23	52.85	50	20	0.1	0.232	0.245	5.70	
N-Octadecane	1	0		9.49	61.41	50	**	0.05	0.417	0.512	22.82	
Pentachlorophenol	1	0		9.43	52.81	50	20	0.05	0.120	0.135	5.62	
Phenanthrene	1	0		9.66	52.80	50	20	0.7	1.080	1.141	5.59	
Anthracene	1	0		9.72	52.87	50	20	0.7	1.082	1.144	5.73	
Carbazole	1	0		9.89	53.84	50	20	0.01	0.985	1.061	7.69	
Di-n-butylphthalate	1	0		10.26	51.62	50	20	0.01	1.098	1.240	3.25	
Fluoranthene	1	0		10.99	55.00	50	20	0.6	1.145	1.260	10.01	
Chrysene-d12	1	0	I	12.68	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.26	52.29	50	20	0.6	1.287	1.346	4.57	
Benzidine	1	0		11.15	41.66	50	**		0.592	0.607	16.67	
Terphenyl-d14	1	0	S	11.44	26.21	25	**		0.663	0.695	4.84	
4,4'-DDE	1	0		11.37	50.16		**		0.262			
4,4'-DDD	1	0		11.77	52.22		**		0.445			
Butylbenzylphthalate	1	0		12.02	49.49	50	20	0.01	0.479	0.550	1.02	
4,4'-DDT	1	0		12.13	58.98		**		0.335			
3,3'-Dichlorobenzidine	1	0		12.65	54.46	50	20	0.01	0.387	0.493	8.91	
Benzo[a]anthracene	1	0		12.67	52.09	50	20	0.8	1.217	1.267	4.18	
Chrysene	1	0		12.71	50.98	50	20	0.7	1.206	1.230	1.96	
bis(2-Ethylhexyl)phthalate	1	0		12.71	50.28	50	20	0.01	0.670	0.798	0.56	
Perylene-d12	1	0	I	14.29	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.46	49.82	50	20	0.01	0.960	1.131	0.35	
Benzo[b]fluoranthene	1	0		13.88	51.94	50	20	0.7	1.003	1.101	3.89	
Benzo[k]fluoranthene	1	0		13.91	47.86	50	20	0.7	1.119	1.071	4.29	
Benzo[a]pyrene	1	0		14.23	53.39	50	20	0.7	1.023	1.092	6.78	
Indeno[1,2,3-cd]pyrene	1	0		15.57	56.27	50	20	0.5	1.131	1.272	12.54	
Dibenzo[a,h]anthracene	1	0		15.59	56.98	50	20	0.4	0.964	1.098	13.96	
Benzo[g,h,i]perylene	1	0		15.94	54.89	50	20	0.5	0.964	1.058	9.78	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M118891.D **Instrument:** GCMS 5

Cont Calibration Date/Time 12/19/2021 10:23:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.646	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.016	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110205.D Instrument: GCMS 9

Cont Calibration Date/Time 12/19/2021 4:43:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.74	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.78	50.70	50	**		1.025	1.039	1.40	
Pyridine	1	0		3.25	52.45	50	**		2.116	2.220	4.91	
N-Nitrosodimethylamine	1	0		3.19	53.44	50	**		1.587	1.696	6.88	
2-Fluorophenol	1	0	S	4.73	53.55	50	**		2.304	2.468	7.10	
Benzaldehyde	1	0		5.55	57.87	50	20	0.01	1.956	2.264	15.75	
Aniline	1	0		5.64	49.98	50	**		4.027	3.706	0.04	
Pentachloroethane	1	0		5.68	48.53	50	**	0.05	0.840	0.816	2.94	
bis(2-Chloroethyl)ether	1	0		5.70	48.10	50	20	0.7	2.670	2.568	3.80	
Phenol-d5	1	0	S	5.60	51.11	50	**		2.952	3.017	2.22	
Phenol	1	0		5.61	51.18	50	20	0.8	3.502	3.584	2.35	
2-Chlorophenol	1	0		5.74	48.86	50	20	0.8	2.476	2.419	2.28	
N-Decane	1	0		5.77	52.02	50	**	0.05	2.438	2.537	4.04	
1,3-Dichlorobenzene	1	0		5.87	48.31	50	**		2.685	2.594	3.38	
1,4-Dichlorobenzene-d4	1	0	I	5.92	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.93	52.00	50	20		1.541	1.602	4.00	
1,2-Dichlorobenzene	1	0		6.05	55.75	50	**		1.444	1.610	11.50	
Benzyl alcohol	1	0		6.03	58.18	50	**		0.931	1.083	16.35	
bis(2-chloroisopropyl)ether	1	0		6.14	63.54	50	20	0.01	1.556	1.977	27.07	C1
2-Methylphenol	1	0		6.12	58.29	50	20	0.7	1.346	1.569	16.58	
Acetophenone	1	0		6.24	59.59	50	20	0.01	1.850	2.205	19.19	
Hexachloroethane	1	0		6.33	56.16	50	20	0.3	0.563	0.633	12.32	
N-Nitroso-di-n-propylamine	1	0		6.24	58.59	50	20	0.5	1.064	1.247	17.18	
3&4-Methylphenol	1	0		6.24	57.36	50	20		1.385	1.589	14.72	
Naphthalene-d8	1	0	I	6.92	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.37	30.46	25	**		0.137	0.170	21.84	
Nitrobenzene	1	0		6.38	59.06	50	20	0.2	0.339	0.411	18.13	
Isophorone	1	0		6.57	54.60	50	20	0.4	0.680	0.743	9.20	
2-Nitrophenol	1	0		6.63	58.92	50	20	0.1	0.147	0.176	17.84	
2,4-Dimethylphenol	1	0		6.65	51.98	50	20	0.2	0.353	0.367	3.96	
Benzoic Acid	1	0		6.71	52.76	50	**		0.199	0.223	5.52	
bis(2-Chloroethoxy)methane	1	0		6.73	54.98	50	20	0.3	0.408	0.449	9.95	
2,4-Dichlorophenol	1	0		6.81	52.80	50	20	0.2	0.273	0.288	5.61	
1,2,4-Trichlorobenzene	1	0		6.88	48.33	50	**		0.296	0.286	3.35	
Naphthalene	1	0		6.94	54.01	50	20	0.7	1.117	1.128	8.02	
4-Chloroaniline	1	0		6.98	50.63	50	20	0.01	0.421	0.426	1.25	
Hexachlorobutadiene	1	0		7.02	50.83	50	20	0.01	0.169	0.172	1.67	
Caprolactam	1	0		7.25	62.58	50	20	0.01	0.101	0.127	25.17	C1
4-Chloro-3-methylphenol	1	0		7.34	56.38	50	20	0.2	0.278	0.314	12.75	
2-Methylnaphthalene	1	0		7.48	49.70	50	**	0.4	0.689	0.684	0.59	
1-Methylnaphthalene	1	0		7.57	50.44	50	**	0.4	0.637	0.643	0.88	
Methylnaphthalenes	1	0		7.48	102.00	50	**			1.351	103.99	
1,1'-Biphenyl	1	0		7.86	50.56	50	20	0.01	0.816	0.826	1.13	
Acenaphthene-d10	1	0	I	8.37	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.61	54.04	50	20	0.01	0.625	0.676	8.08	
Hexachlorocyclopentadiene	1	0		7.60	16.72	50	20	0.05	0.321	0.112	66.56	C1
2,4,6-Trichlorophenol	1	0		7.71	52.35	50	20	0.2	0.401	0.420	4.69	
2,4,5-Trichlorophenol	1	0		7.74	52.84	50	20	0.2	0.409	0.433	5.69	
2-Fluorobiphenyl	1	0	S	7.77	27.77	25	**		1.485	1.649	11.07	
2-Chloronaphthalene	1	0		7.88	53.47	50	20	0.8	1.248	1.334	6.95	
1,4-Dimethylnaphthalene	1	0		8.17	56.32	50	**		1.055	1.188	12.65	
Dimethylnaphthalenes	1	0		8.17	56.32	50	20			1.188	12.65	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110205.D Instrument: GCMS 9

Cont Calibration Date/Time 12/19/2021 4:43:00 P Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.94	55.74	50	**		0.896	0.998	11.48	
2-Nitroaniline	1	0		7.97	59.69	50	20	0.01	0.404	0.506	19.38	
Coumarin	1	0		8.15	57.96		**		0.518			
Acenaphthylene	1	0		8.25	57.36	50	20	0.9	1.961	2.250	14.72	
Dimethylphthalate	1	0		8.11	57.61	50	20	0.01	1.376	1.585	15.22	
2,6-Dinitrotoluene	1	0		8.17	55.43	50	20	0.2	0.267	0.334	10.87	
Acenaphthene	1	0		8.40	53.11	50	20	0.9	1.286	1.366	6.23	
3-Nitroaniline	1	0		8.32	60.19	50	20	0.01	0.321	0.386	20.37	
2,4-Dinitrophenol	1	0		8.41	63.34	50	20	0.2	0.098	0.119	26.67	C1
Dibenzofuran	1	0		8.56	53.41	50	20	0.8	1.878	2.006	6.83	
2,4-Dinitrotoluene	1	0		8.53	61.26	50	20	0.2	0.323	0.433	22.51	C1
4-Nitrophenol	1	0		8.45	59.42	50	20	0.01	0.236	0.300	18.84	
2,3,4,6-Tetrachlorophenol	1	0		8.66	55.89	50	20	0.01	0.335	0.374	11.78	
Fluorene	1	0		8.88	52.81	50	20	0.9	1.450	1.531	5.62	
4-Chlorophenyl-phenylether	1	0		8.87	52.26	50	20	0.4	0.687	0.718	4.51	
Diethylphthalate	1	0		8.74	54.18	50	20	0.01	1.345	1.458	8.35	
4-Nitroaniline	1	0		8.90	54.54	50	20	0.01	0.361	0.428	9.09	
Atrazine	1	0		9.52	64.59	50	20	0.01	0.371	0.479	29.18	C1
Phenanthrene-d10	1	0	I	9.85	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.92	59.33	50	20	0.01	0.077	0.094	18.67	
n-Nitrosodiphenylamine	1	0		8.98	52.76	50	20	0.01	0.659	0.695	5.52	
2,4,6-Tribromophenol	1	0	S	9.12	52.45	50	**		0.096	0.106	4.89	
1,2-Diphenylhydrazine	1	0		9.03	62.99	50	**		0.800	1.007	25.97	
4-Bromophenyl-phenylether	1	0		9.37	54.76	50	20	0.1	0.212	0.232	9.52	
Hexachlorobenzene	1	0		9.43	54.26	50	20	0.1	0.228	0.247	8.52	
N-Octadecane	1	0		9.69	65.07	50	**	0.05	0.421	0.548	30.14	
Pentachlorophenol	1	0		9.64	50.01	50	20	0.05	0.130	0.126	0.02	
Phenanthrene	1	0		9.88	52.73	50	20	0.7	1.108	1.169	5.46	
Anthracene	1	0		9.93	53.92	50	20	0.7	1.123	1.210	7.83	
Carbazole	1	0		10.10	54.36	50	20	0.01	1.045	1.136	8.73	
Di-n-butylphthalate	1	0		10.47	60.49	50	20	0.01	1.145	1.385	20.98	C1
Fluoranthene	1	0		11.21	58.73	50	20	0.6	1.167	1.371	17.45	
Chrysene-d12	1	0	I	12.92	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.48	55.71	50	20	0.6	1.288	1.435	11.43	
Benzidine	1	0		11.37	42.29	50	**		0.757	0.708	15.42	
Terphenyl-d14	1	0	S	11.66	27.58	25	**		0.668	0.737	10.31	
4,4'-DDE	1	0		11.59	55.18		**		0.256			
4,4'-DDD	1	0		12.00	56.53		**		0.432			
Butylbenzylphthalate	1	0		12.25	58.43	50	20	0.01	0.509	0.643	16.85	
4,4'-DDT	1	0		12.35	44.22		**		0.371			
3,3'-Dichlorobenzidine	1	0		12.88	57.89	50	20	0.01	0.459	0.531	15.78	
Benzo[a]anthracene	1	0		12.91	52.18	50	20	0.8	1.258	1.313	4.36	
Chrysene	1	0		12.95	52.62	50	20	0.7	1.228	1.292	5.24	
bis(2-Ethylhexyl)phthalate	1	0		12.94	54.91	50	20	0.01	0.752	0.912	9.83	
Perylene-d12	1	0	I	14.56	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.68	59.13	50	20	0.01	1.084	1.428	18.25	
Benzo[b]fluoranthene	1	0		14.12	53.48	50	20	0.7	1.150	1.230	6.97	
Benzo[k]fluoranthene	1	0		14.16	52.27	50	20	0.7	1.128	1.179	4.53	
Benzo[a]pyrene	1	0		14.50	53.33	50	20	0.7	1.087	1.159	6.65	
Indeno[1,2,3-cd]pyrene	1	0		15.95	49.65	50	20	0.5	1.241	1.233	0.70	
Dibenzo[a,h]anthracene	1	0		15.97	49.19	50	20	0.4	1.017	1.001	1.61	
Benzo[g,h,i]perylene	1	0		16.35	49.95	50	20	0.5	1.030	1.029	0.10	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110205.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/19/2021 4:43:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.662	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.055	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1120805 0135

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118403.D Method: EPA 8270E

Analysis Date/Time: 11/10/21 10:49

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	72178	2.55	75595	5.78	298207	6.78	148988	8.20	278765	9.66	268344	12.71	297612	14.33
Eval File Area Limit:	36089-144356		37798-151190		149104-596414		74494-297976		139382-557530		134172-536688		148806-595224	
Eval File Rt Limit:	2.05-3.05		5.28-6.28		6.28-7.28		7.7-8.7		9.16-10.16		12.21-13.21		13.83-14.83	
Data File Sample														
5M118395.D CAL BNA@10PPM	56760	2.55	62488	5.77	255179	6.78	124861	8.20	236242	9.66	211530	12.71	222856	14.33
5M118396.D CAL BNA@2PPM	84648	2.55	92061	5.77	371060	6.78	190259	8.20	356240	9.66	313342	12.71	345128	14.33
5M118397.D CAL BNA@196PPM	62691	2.54	62258	5.78	251682	6.79	129840	8.21	244866	9.67	231916	12.72	251649	14.33
5M118398.D CAL BNA@160PPM	68597	2.55	72409	5.78	286834	6.79	142643	8.21	268785	9.67	247515	12.72	284206	14.33
5M118399.D CAL BNA@120PPM	69914	2.54	73365	5.78	289093	6.79	142212	8.21	270362	9.67	253410	12.72	280111	14.33
5M118400.D CAL BNA@80PPM	76210	2.55	80737	5.78	325206	6.78	158443	8.21	306892	9.66	283954	12.72	315981	14.33
5M118401.D CAL BNA@20PPM	74559	2.55	84796	5.77	330522	6.78	161366	8.20	300618	9.66	282779	12.71	310717	14.33
5M118402.D CAL BNA@0.5PPM	120200	2.54	134197	5.77	549253	6.78	273959	8.20	526307	9.66	479939	12.71	536426	14.33
5M118403.D CAL BNA@50PPM	72178	2.55	75595	5.78	298207	6.78	148988	8.20	278765	9.66	268344	12.71	297612	14.33
5M118404.D BNA@50PPM	98777	2.54	108330	5.77	439771	6.78	218399	8.21	420665	9.67	391215	12.72	437092	14.33
5M118405.D ICV BNA@50PPM	75347	2.54	78788	5.77	307780	6.78	157271	8.21	303722	9.66	283665	12.72	302538	14.33

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0136

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109530.D Method: EPA 8270E

Analysis Date/Time: 11/12/21 10:07

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
Eval File Area Limit:	16559-66236		29294-117176		114192-456766		54458-217832		102032-408126		96603-386412		104604-418416	
Eval File Rt Limit:	2.25-3.25		5.43-6.43		6.44-7.44		7.88-8.88		9.35-10.35		12.42-13.42		14.06-15.06	

Data File	Sample													
9M109530.D	CAL BNA@50PPM	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
9M109531.D	CAL BNA@196PPM	25016	2.74	43177	5.93	171873	6.94	81811	8.38	155085	9.85	151041	12.92	158596	14.56
9M109532.D	CAL BNA@160PPM	27353	2.74	47722	5.92	187885	6.94	90029	8.38	170786	9.85	165121	12.92	175539	14.56
9M109533.D	CAL BNA@120PPM	25881	2.74	45223	5.92	180459	6.94	85911	8.38	159730	9.85	154814	12.92	164815	14.55
9M109534.D	CAL BNA@80PPM	27336	2.74	49171	5.92	195077	6.94	93101	8.38	175374	9.85	167242	12.92	179672	14.55
9M109535.D	CAL BNA@10PPM	23963	2.74	43124	5.92	173483	6.93	84895	8.38	159142	9.85	146568	12.91	157496	14.55
9M109536.D	CAL BNA@2PPM	24360	2.74	44423	5.92	175017	6.93	87263	8.37	163318	9.85	148455	12.91	161765	14.55
9M109537.D	CAL BNA@20PPM	28654	2.74	52105	5.92	206203	6.93	99213	8.38	184782	9.85	174287	12.91	186634	14.55
9M109538.D	CAL BNA@0.5PPM	24368	2.74	44096	5.92	177756	6.93	86981	8.37	162760	9.85	149224	12.91	162376	14.55
9M109539.D	ICV BNA@50PPM	27449	2.74	47884	5.92	189949	6.93	91839	8.38	171179	9.85	165497	12.92	174845	14.55

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0137

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118891.D Method: EPA 8270E

Analysis Date/Time: 12/19/21 10:23

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	74640	2.52	73995	5.76	297871	6.76	144272	8.18	273693	9.64	261158	12.68	295676	14.29
Eval File Area Limit:	37320-149280		36998-147990		148936-595742		72136-288544		136846-547386		130579-522316		147838-591352	
Eval File Rt Limit:	2.02-3.02		5.26-6.26		6.26-7.26		7.68-8.68		9.14-10.14		12.18-13.18		13.79-14.79	

Data File	Sample													
5M118892.D	SMB95930	86502	2.49	75218	5.75	310351	6.76	153644	8.18	285059	9.64	253631	12.68	279173	14.29
5M118893.D	SMB95930(MS)	71520	2.50	69982	5.75	273715	6.76	137555	8.18	252809	9.64	237389	12.68	258520	14.29
5M118894.D	SMB95931(MS)	62197	2.49	59714	5.76	237566	6.76	119153	8.18	219773	9.64	206298	12.68	223442	14.29
5M118895.D	SMB95931	69954	2.49	67175	5.75	264569	6.76	131495	8.18	252819	9.63	226331	12.68	248597	14.29
5M118896.D	AD27882-001	67300	2.50	66395	5.75	269761	6.76	134681	8.18	245592	9.63	222118	12.68	240523	14.29
5M118897.D	AD27882-002	68096	2.50	67270	5.75	271145	6.76	137178	8.18	249314	9.63	230394	12.68	249875	14.29
5M118898.D	AD27882-003	71139	2.49	73314	5.75	300177	6.76	145406	8.18	275500	9.63	255009	12.68	268479	14.29
5M118899.D	AD27882-005	68157	2.52	49828	5.77	264341	6.77	128056	8.18	245674	9.63	224550	12.68	246655	14.29
5M118900.D	AD27882-007	68483	2.50	69425	5.76	272355	6.76	135581	8.18	256704	9.63	233338	12.68	260231	14.29
5M118901.D	AD27849-014	65401	2.50	67578	5.75	277994	6.76	135947	8.18	258516	9.63	237567	12.68	254039	14.29
5M118902.D	AD27774-002	67300	2.49	69960	5.75	287488	6.76	139361	8.18	255079	9.63	225387	12.68	258432	14.29
5M118903.D	AD27774-003	70604	2.50	69824	5.76	282436	6.76	144264	8.18	265673	9.63	243379	12.68	272880	14.29
5M118904.D	AD27849-008	70909	2.50	74725	5.75	303278	6.76	151034	8.18	283621	9.63	254626	12.68	278867	14.29
5M118905.D	AD27849-012	67055	2.50	70495	5.76	276358	6.76	140641	8.18	255352	9.63	233455	12.68	259251	14.29
5M118906.D	AD27882-013	67579	2.51	68867	5.76	269514	6.76	135819	8.18	235886	9.63	220182	12.69	245792	14.31
5M118907.D	AD27785-001	66979	2.50	68932	5.76	284425	6.76	134314	8.18	257247	9.64	220065	12.68	242698	14.29

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120805 0138

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110205.D Method: EPA 8270E

Analysis Date/Time: 12/19/21 16:43

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	21818	2.74	35245	5.92	150217	6.92	67822	8.37	131011	9.85	128751	12.92	136150	14.56
Eval File Area Limit:	10909-43636		17622-70490		75108-300434		33911-135644		65506-262022		64376-257502		68075-272300	
Eval File Rt Limit:	2.24-3.24		5.42-6.42		6.42-7.42		7.87-8.87		9.35-10.35		12.42-13.42		14.06-15.06	

Data File	Sample													
9M110206.D	AD27774-001	20730	2.73	34573	5.92	138430	6.92	69531	8.37	133891	9.85	112380	12.92	117343	14.56
9M110207.D	AD27774-001(MS)	21101	2.71	33566	5.92	139799	6.92	70280	8.37	126602	9.85	118948	12.92	126397	14.56
9M110208.D	AD27774-001(MSD)	20792	2.72	33721	5.92	141422	6.92	69617	8.37	124813	9.85	106979	12.92	122010	14.56
9M110209.D	AD27785-002	19383	2.72	33880	5.92	135932	6.92	65078	8.37	117387	9.85	105070	12.91	106459	14.56
9M110210.D	AD27785-002(MS)	20065	2.73	35197	5.92	139200	6.92	66226	8.37	121412	9.85	101129	12.92	106401	14.56
9M110211.D	AD27785-002(MSD)	19904	2.72	33887	5.92	133136	6.92	61424	8.37	123726	9.85	110530	12.92	108501	14.56
9M110212.D	AD27878-008	20681	2.73	35639	5.92	144655	6.92	70108	8.37	131034	9.85	110808	12.91	112556	14.56
9M110213.D	AD27854-006	21703	2.72	38668	5.92	154898	6.92	75323	8.37	139340	9.85	113667	12.91	121858	14.56
9M110214.D	AD27855-002	21716	2.72	38744	5.92	154658	6.92	74432	8.37	138944	9.85	112819	12.91	111235	14.56
9M110215.D	AD27855-004	23596	2.71	42339	5.92	170136	6.92	82495	8.37	153126	9.85	122587	12.92	125412	14.56
9M110216.D	AD27855-006	18611	2.71	33350	5.92	133971	6.92	63988	8.37	115763	9.85	94687	12.91	93159	14.56
9M110217.D	AD27856-002	21382	2.72	38274	5.92	154206	6.92	74906	8.37	137315	9.85	105385	12.92	105361	14.56
9M110218.D	AD27856-004	21539	2.73	37672	5.92	151682	6.92	74231	8.37	135236	9.85	106082	12.92	110065	14.56
9M110219.D	AD27856-006	20872	2.72	37365	5.92	149660	6.92	73537	8.37	128512	9.85	104168	12.92	108545	14.56
9M110220.D	AD27857-002	20273	2.73	35837	5.92	145027	6.92	69557	8.37	129024	9.85	99589	12.92	104138	14.56
9M110221.D	AD27857-004	18736	2.72	34173	5.92	135498	6.92	64603	8.37	119537	9.85	92571	12.92	96546	14.56
9M110222.D	AD27857-006	19946	2.73	36492	5.92	144822	6.92	70892	8.37	129118	9.85	99221	12.92	104226	14.56
9M110223.D	AD27858-002	16816	2.73	31282	5.92	125310	6.92	59954	8.37	110788	9.85	86905	12.92	88257	14.56
9M110224.D	AD27858-004	18390	2.73	32321	5.92	134955	6.92	66020	8.37	117948	9.85	86629	12.92	97637	14.56
9M110225.D	AD27858-006	23608	2.73	42955	5.92	170793	6.92	83851	8.37	151588	9.85	117785	12.92	120511	14.56
9M110226.D	AD27859-002	19824	2.72	35653	5.92	143723	6.92	70844	8.37	127037	9.85	97713	12.92	100857	14.57
9M110227.D	AD27859-004	20479	2.73	35634	5.92	149386	6.92	68680	8.37	132779	9.85	104157	12.92	104375	14.56
9M110228.D	AD27859-006	25833	2.73	47540	5.92	190082	6.92	89544	8.37	156512	9.85	124424	12.92	130138	14.57
9M110229.D	AD27909-001	20329	2.72	37019	5.92	148106	6.92	71220	8.37	130377	9.85	99971	12.92	100887	14.56
9M110230.D	AD27850-003	23551	2.73	41889	5.92	166755	6.92	80796	8.37	146067	9.85	113427	12.92	113705	14.57
9M110231.D	AD27761-004(3X)	24440	2.74	43176	5.92	169452	6.92	78606	8.37	135945	9.85	108427	12.93	121101	14.57
9M110232.D	AD27761-005(3X)	23035	2.73	40597	5.92	158921	6.92	77162	8.37	138532	9.85	105134	12.92	108226	14.57
9M110233.D	AD27762-007(3X)	24334	2.74	43246	5.92	170171	6.92	83349	8.37	153146	9.85	121453	12.92	119027	14.56
9M110234.D	AD27762-008(3X)	24706	2.74	43924	5.92	173940	6.92	84584	8.37	152287	9.85	121394	12.92	120686	14.56
9M110235.D	AD27716-002(3X)(R)	22288	2.73	39547	5.92	158631	6.92	76542	8.37	136288	9.85	106286	12.92	106645	14.57

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27774-001
Client Id: SB-009SS
Data File: 7G56203.D
Analysis Date: 12/10/21 15:00
Date Rec/Extracted: 12/08/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	68	U				

Worksheet #: 621359

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56203.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:00
Operator : ABM/AH
Sample : AD27774-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:51:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

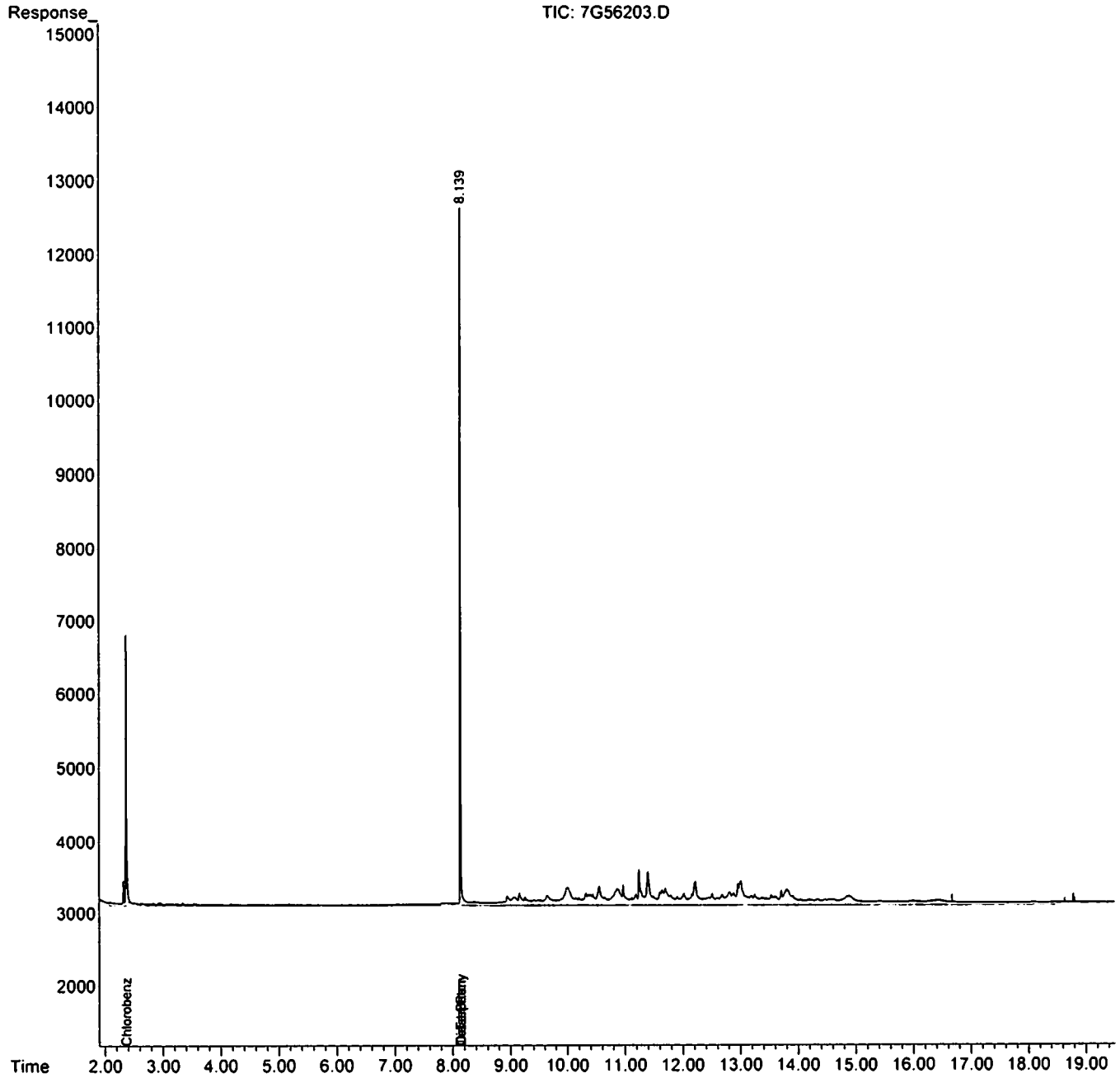
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.366	33260	9.938		
23)	O-Terphenyl	8.139	72164	11.753		
24)d	Diesel Range Organics(T	8.139f	296017	55.501		m
25)t	Total Petroleum Hydroca	8.139f	696864	133.664		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56203.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:00
Operator : ABM/AH
Sample : AD27774-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:51:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27774-002
Client Id: SB-010SS
Data File: 7G56204.D
Analysis Date: 12/10/21 15:29
Date Rec/Extracted: 12/08/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	70	U				

Worksheet #: 621359

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56204.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:29
Operator : ABM/AH
Sample : AD27774-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:53:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

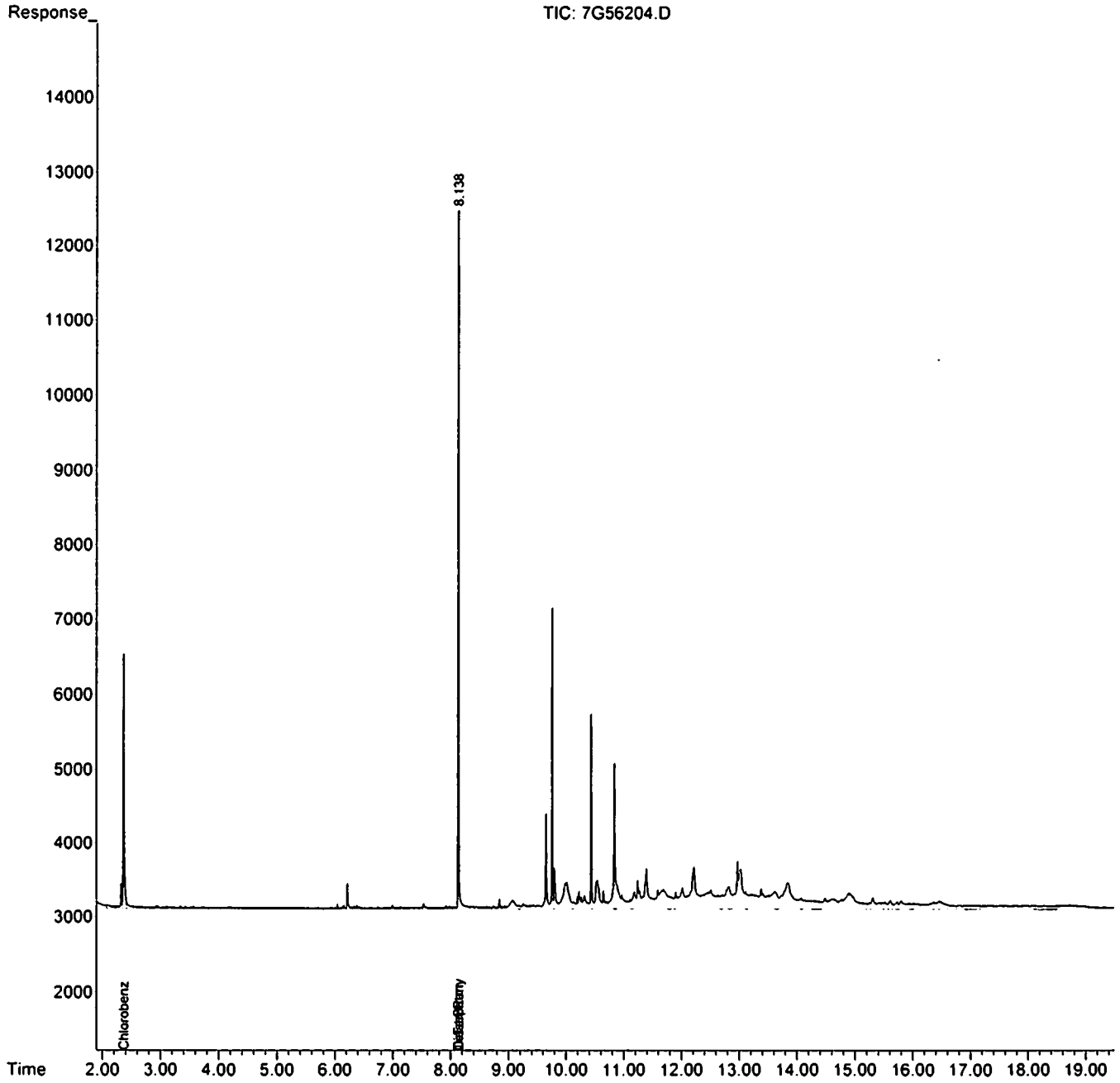
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.366	32521	9.718		
23)	O-Terphenyl	8.138	72502	11.808		
24)d	Diesel Range Organics(T	8.138f	382118	71.644		m
25)t	Total Petroleum Hydroca	8.138f	982834	188.516		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56204.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:29
Operator : ABM/AH
Sample : AD27774-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:53:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27774-003
Client Id: SB-011SS
Data File: 7G56205.D
Analysis Date: 12/10/21 15:58
Date Rec/Extracted: 12/08/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**71**	**470**				

Worksheet #: 621359

Total Target Concentration 470

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56205.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:58
Operator : ABM/AH
Sample : AD27774-003
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:56:11 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

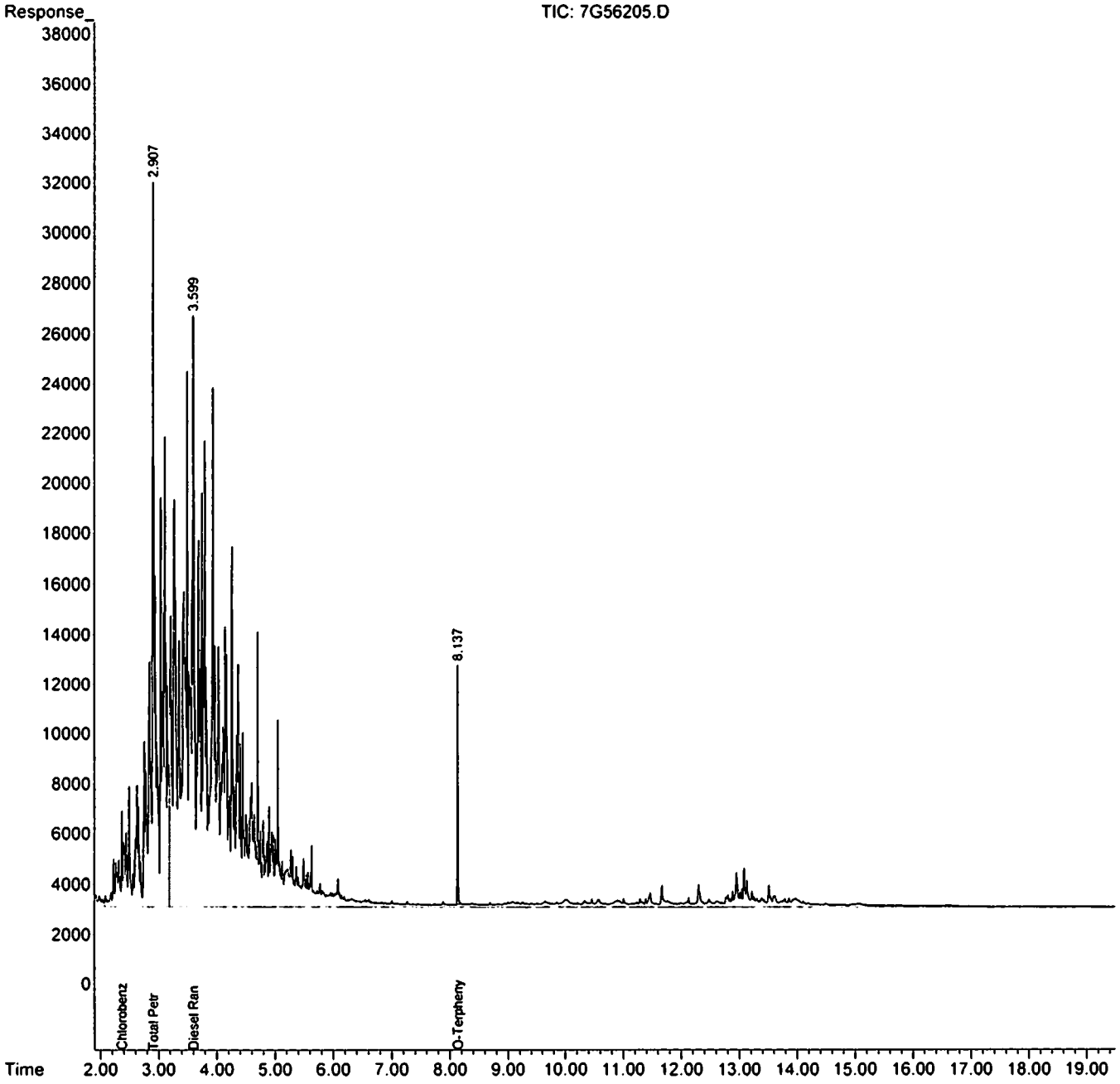
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.367	28481	8.510		m
23)	O-Terphenyl	8.137	73354	11.947		
24)d	Diesel Range Organics(T	3.599	7538612	1413.424		m
25)t	Total Petroleum Hydroca	2.907	10635461	2039.967		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56205.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:58
Operator : ABM/AH
Sample : AD27774-003
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:56:11 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95839
Client Id:
Data File: 7G56199.D
Analysis Date: 12/10/21 13:02
Date Rec/Extracted: NA-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 621359

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

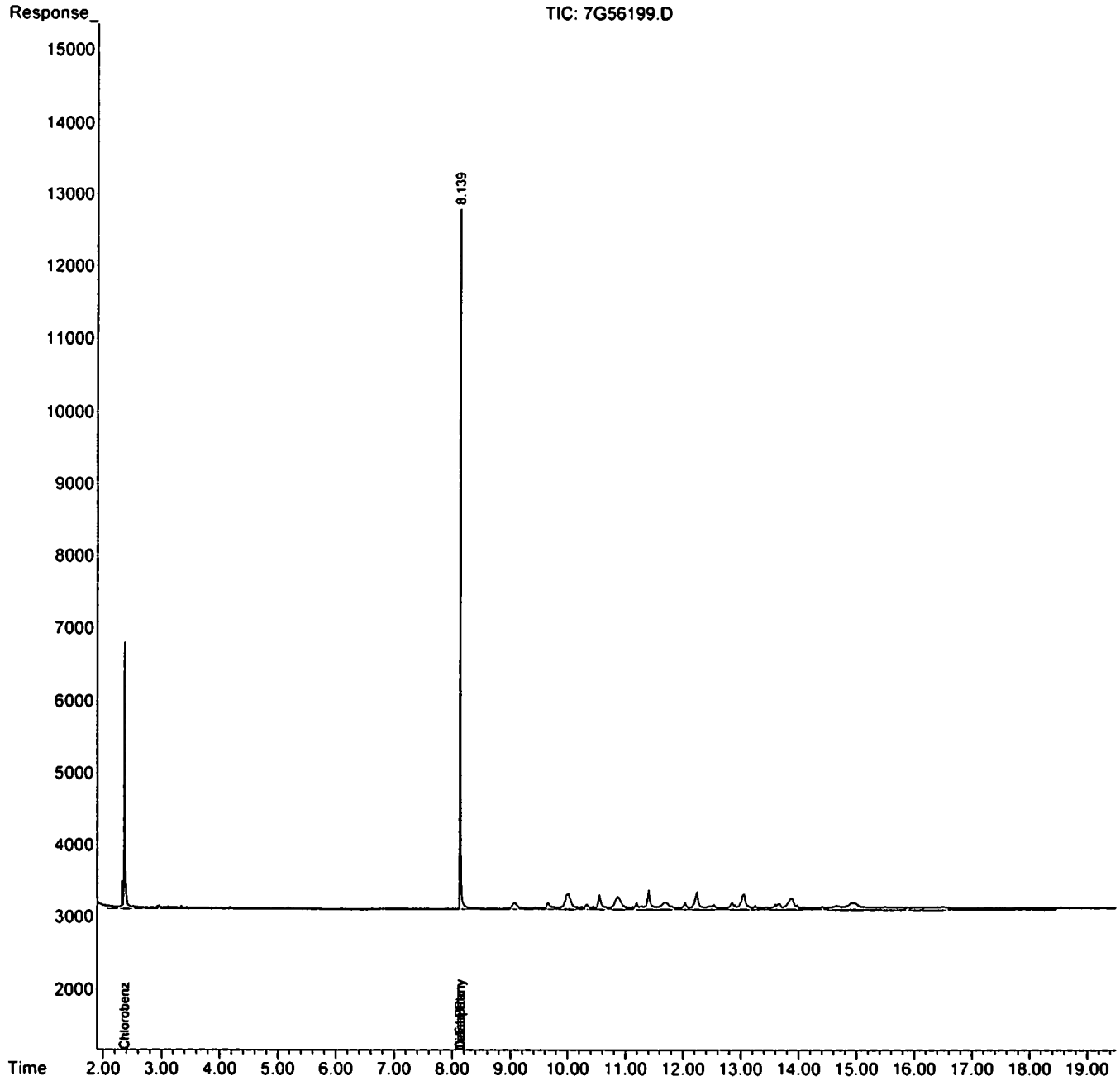
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.368	33700	10.070		
23)	O-Terphenyl	8.140	76018	12.381		
24)d	Diesel Range Organics(T	8.139f	169152	31.715		m
25)t	Total Petroleum Hydroca	8.139f	396186	75.992		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

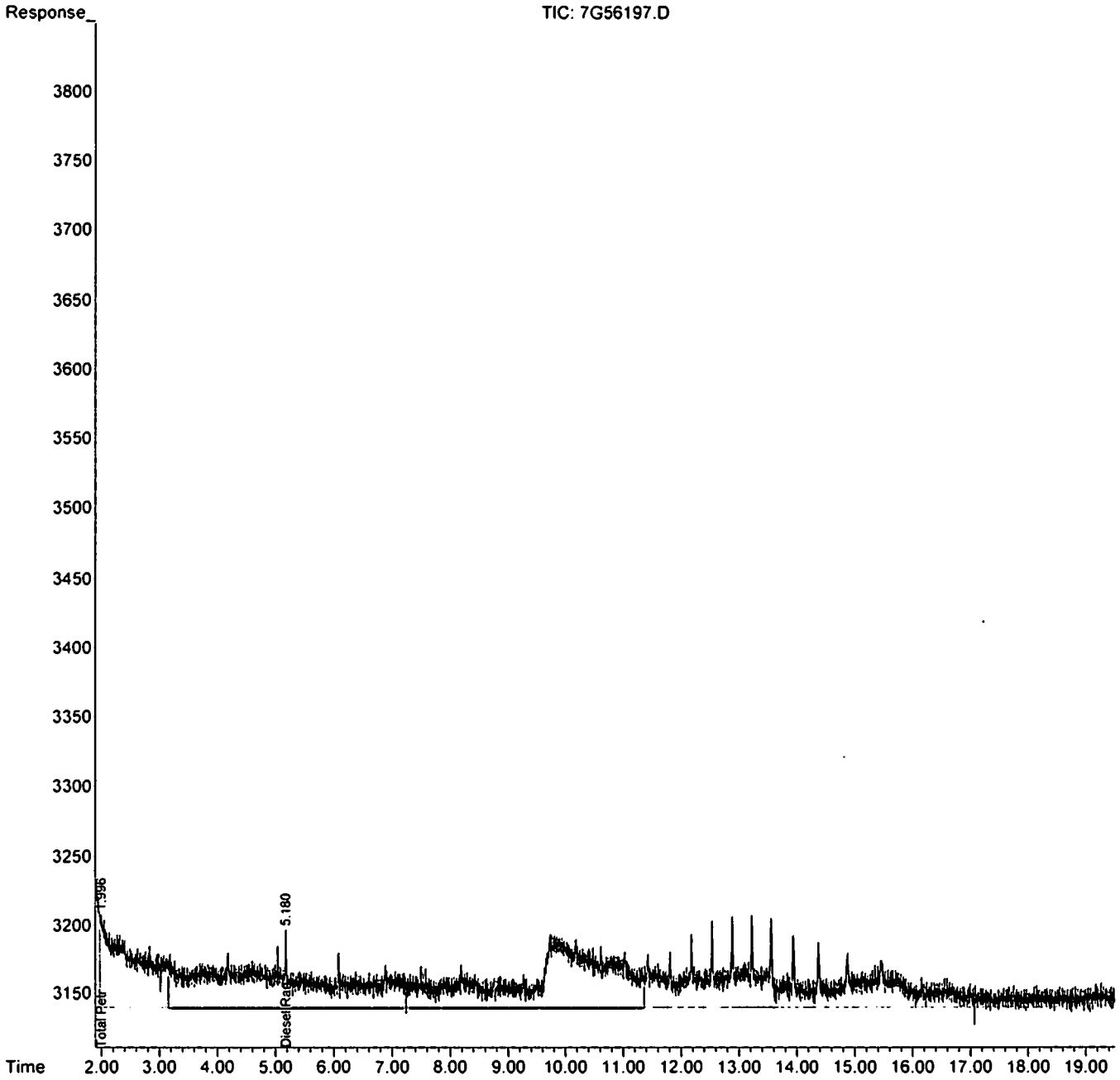
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.180	108944	20.426		m
25)t	Total Petroleum Hydroca	1.996	195935	37.582		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56199.D	SMB95839	S	12/10/21 13:02	1		50	62				
7G56203.D	AD27774-001	S	12/10/21 15:00	1		50	59				
7G56204.D	AD27774-002	S	12/10/21 15:29	1		49	59				
7G56205.D	AD27774-003	S	12/10/21 15:58	1		43	60				
7G56198.D	SMB95839(MS)	S	12/10/21 12:32	1		50	52				
7G56200.D	AD27738-001	S	12/10/21 13:31	1		46	55				
7G56201.D	AD27738-001(MS)	S	12/10/21 14:00	1		45	106				
7G56202.D	AD27738-001(MSD)	S	12/10/21 14:30	1		50	59				

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56198.D	SMB95839(MS)	12/10/2021 12:32:00 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1703.58	0	3000	57	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1670.94	0	3000	56	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1829.44	0	3000	61	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Duplicate(If applicable):	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	1829.44	1670.94	9.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95839
Blank Data File: 7G56199.D
Matrix: Soil

Blank Analysis Date: 12/10/21 13:02
Blank Extraction Date: 12/09/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27774-001	7G56203.D	12/10/21 15:00
AD27774-002	7G56204.D	12/10/21 15:29
AD27774-003	7G56205.D	12/10/21 15:58
AD27738-001(MSD	7G56202.D	12/10/21 14:30
AD27738-001(MS)	7G56201.D	12/10/21 14:00
AD27738-001	7G56200.D	12/10/21 13:31
SMB95839(MS)	7G56198.D	12/10/21 12:32

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56195.D	INST BLK	12/10/21 11:12	Soil					
7G56196.D	CAL TPH@20PPM	12/10/21 11:33	Soil	7G56196.	8.1465	0		
7G56197.D	INST BLK	12/10/21 12:03	Soil	7G56196.	0.0000	200		
7G56198.D	SMB95839(MS)	12/10/21 12:32	Soil	7G56196.	8.1418	0.0577		
7G56199.D	SMB95839	12/10/21 13:02	Soil	7G56196.	8.1398	0.0823		
7G56200.D	AD27738-001	12/10/21 13:31	Soil	7G56196.	8.1380	0.1044		
7G56201.D	AD27738-001(MS)	12/10/21 14:00	Soil	7G56196.	8.1391	0.0909		
7G56202.D	AD27738-001(MSD)	12/10/21 14:30	Soil	7G56196.	8.1405	0.0737		
7G56203.D	AD27774-001	12/10/21 15:00	Soil	7G56196.	8.1392	0.0896		
7G56204.D	AD27774-002	12/10/21 15:29	Soil	7G56196.	8.1377	0.1081		
7G56205.D	AD27774-003	12/10/21 15:58	Soil	7G56196.	8.1371	0.1154		
7G56206.D	CAL TPH@20PPM	12/10/21 16:35	Soil	7G56196.	8.1432	0.0405		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1120805 0161

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56196.D				7G56206.D											
Method:				8015				8015											
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM											
Calibration Date/Time				12/10/21 11:33				12/10/21 16:35											
				Conc				Conc				Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	13.79	20	31.1*		15.03	20	24.9*									
C9	20	1	0	13.65	20	31.8*		15.26	20	23.7*									
C10	20	1	0	13.61	20	32.0*		14.63	20	26.9*									
C12	20	1	0	14.45	20	27.8*		16.1	20	19.5									
C14	20	1	0	15.21	20	24.0*		15.23	20	23.9*									
C16	20	1	0	15.34	20	23.3*		16.32	20	18.4									
C17	20	1	0	11.21	20	44.0*		15.45	20	22.8*									
Pristane	20	1	0	20.93	20	4.7		18.63	20	6.9									
C18	20	1	0	15.48	20	22.6*		16.23	20	18.9									
Phytane	20	1	0	15.77	20	21.2*		16.8	20	16.0									
C20	20	1	0	16.57	20	17.2		17.74	20	11.3									
C22	20	1	0	16.6	20	17.0		17.59	20	12.1									
C24	20	1	0	16.79	20	16.1		17.63	20	11.9									
C26	20	1	0	16.88	20	15.6		17.8	20	11.0									
C28	20	1	0	17.27	20	13.7		18.21	20	9.0									
C30	20	1	0	17.89	20	10.6		18.72	20	6.4									
C32	20	1	0	18.15	20	9.3		19.34	20	3.3									
C34	20	1	0	18.02	20	9.9		19.56	20	2.2									
C36	20	1	0	17.86	20	10.7		19.38	20	3.1									
C40	20	1	0	16.62	20	16.9		18.36	20	8.2									
C44	20	1	0	15.83	20	20.9*		16.89	20	15.6									
Chlorobenzene	20	1	0	14.25	20	28.8*		15.59	20	22.1*									
O-Terphenyl	20	1	0	16.95	20	15.3		17.99	20	10.1									
Average Difference	20	1	0			20.2				14.2									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27774-001
Client Id: SB-009SS
Data File: 7G56203.D
Analysis Date: 12/10/21 15:00
Date Rec/Extracted: 12/08/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	68	U				

Worksheet #: 621373

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56203.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:00
Operator : ABM/AH
Sample : AD27774-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:51:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

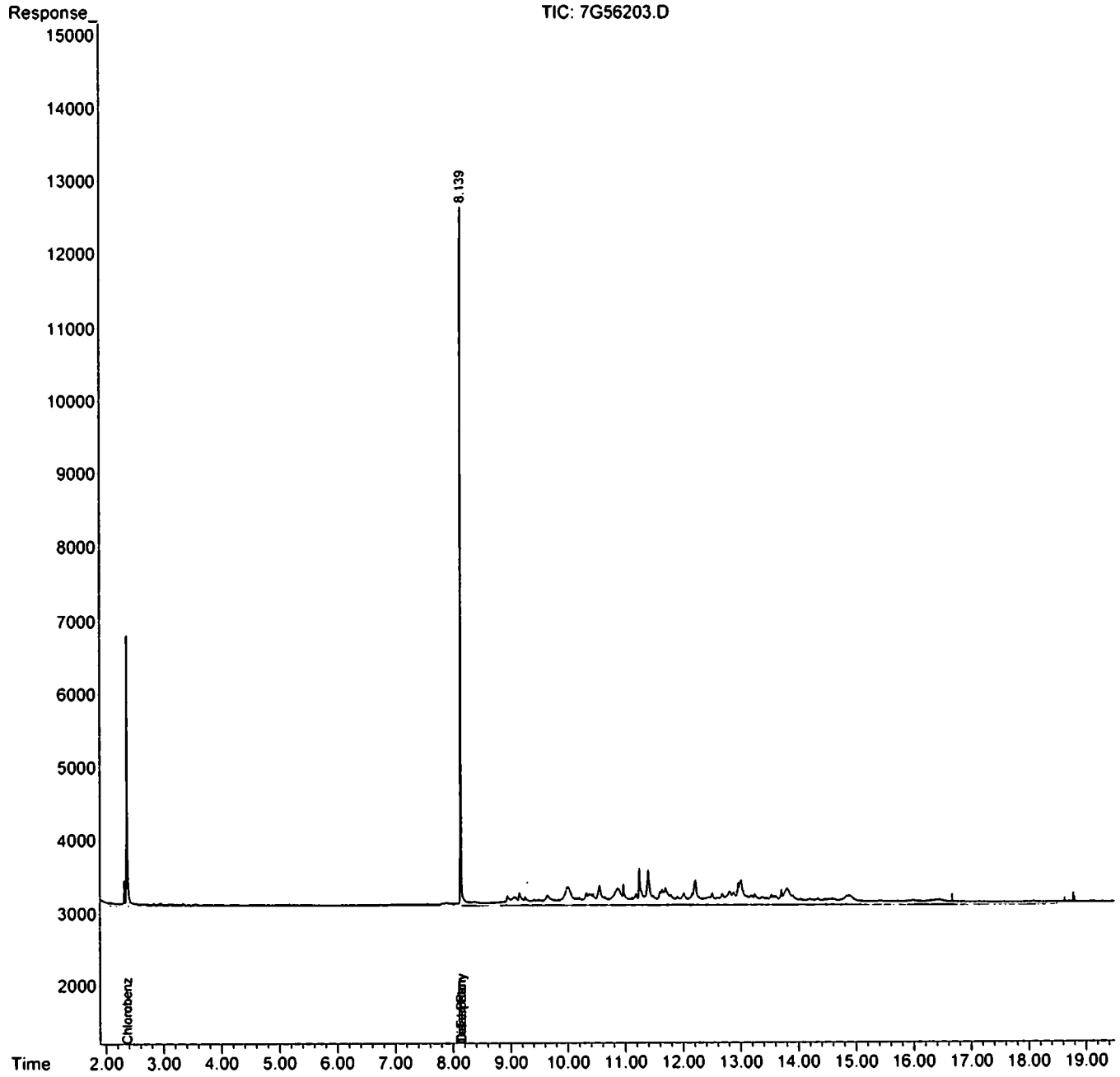
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.366	33260	9.938		
23)	O-Terphenyl	8.139	72164	11.753		
24)d	Diesel Range Organics(T	8.139f	296017	55.501		m
25)t	Total Petroleum Hydroca	8.139f	696864	133.664		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56203.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:00
Operator : ABM/AH
Sample : AD27774-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:51:54 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27774-002
Client Id: SB-010SS
Data File: 7G56204.D
Analysis Date: 12/10/21 15:29
Date Rec/Extracted: 12/08/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	70	U				

Worksheet #: 621373

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56204.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:29
Operator : ABM/AH
Sample : AD27774-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:53:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

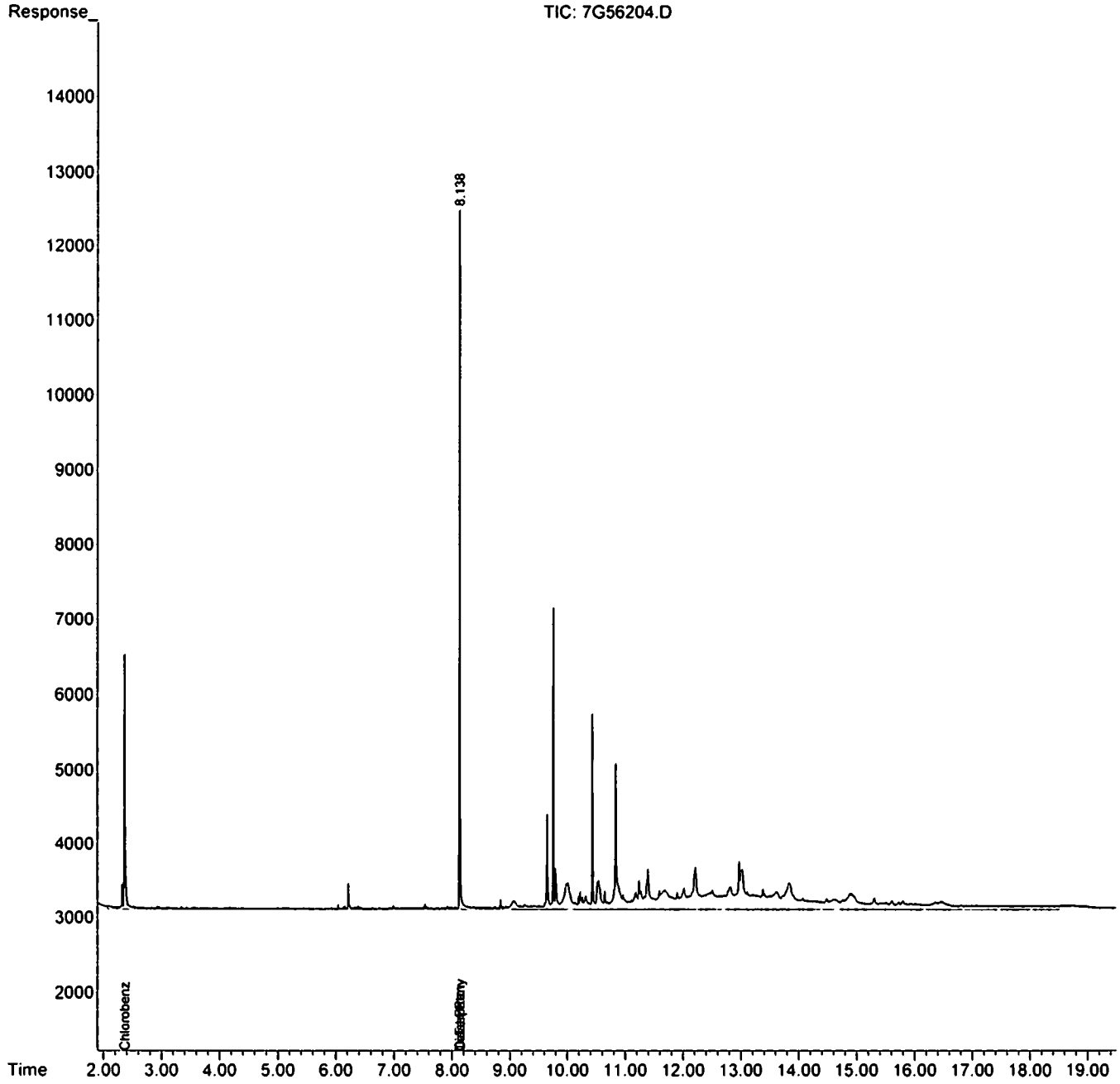
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.366	32521	9.718		
23)	O-Terphenyl	8.138	72502	11.808		
24)d	Diesel Range Organics(T	8.138f	382118	71.644		m
25)t	Total Petroleum Hydroca	8.138f	982834	188.516		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56204.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:29
Operator : ABM/AH
Sample : AD27774-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:53:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27774-003
Client Id: SB-011SS
Data File: 7G56205.D
Analysis Date: 12/10/21 15:58
Date Rec/Extracted: 12/08/21-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	71	330				

Worksheet #: 621373

Total Target Concentration 330

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56205.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:58
Operator : ABM/AH
Sample : AD27774-003
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:56:11 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

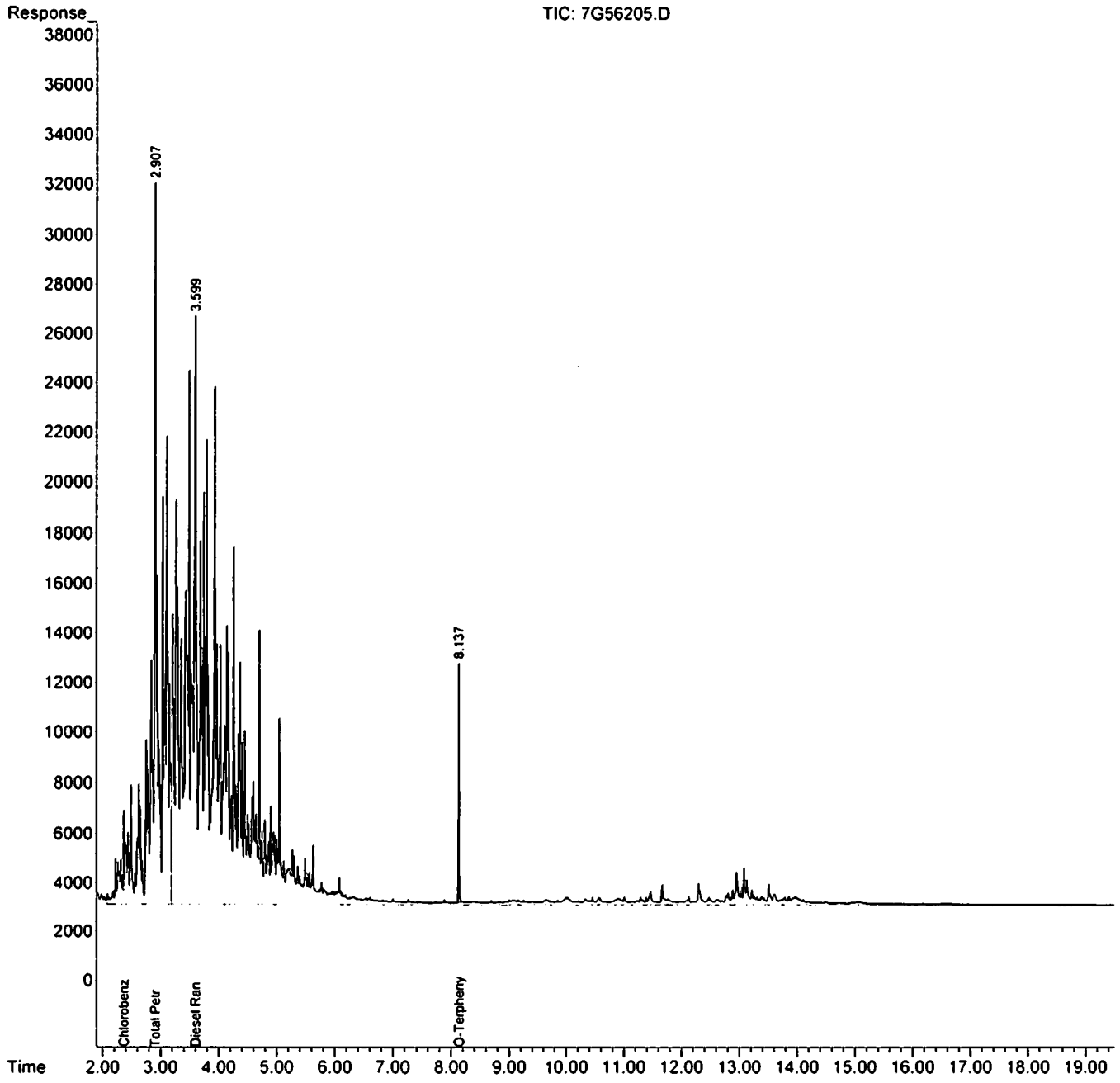
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.367	28481	8.510		m
23)	O-Terphenyl	8.137	73354	11.947		
24)d	Diesel Range Organics(T	3.599	7538612	1413.424		m
25)t	Total Petroleum Hydroca	2.907	10635461	2039.967		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56205.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 15:58
Operator : ABM/AH
Sample : AD27774-003
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 11 20:56:11 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95839
Client Id:
Data File: 7G56199.D
Analysis Date: 12/10/21 13:02
Date Rec/Extracted: NA-12/09/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 621373

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

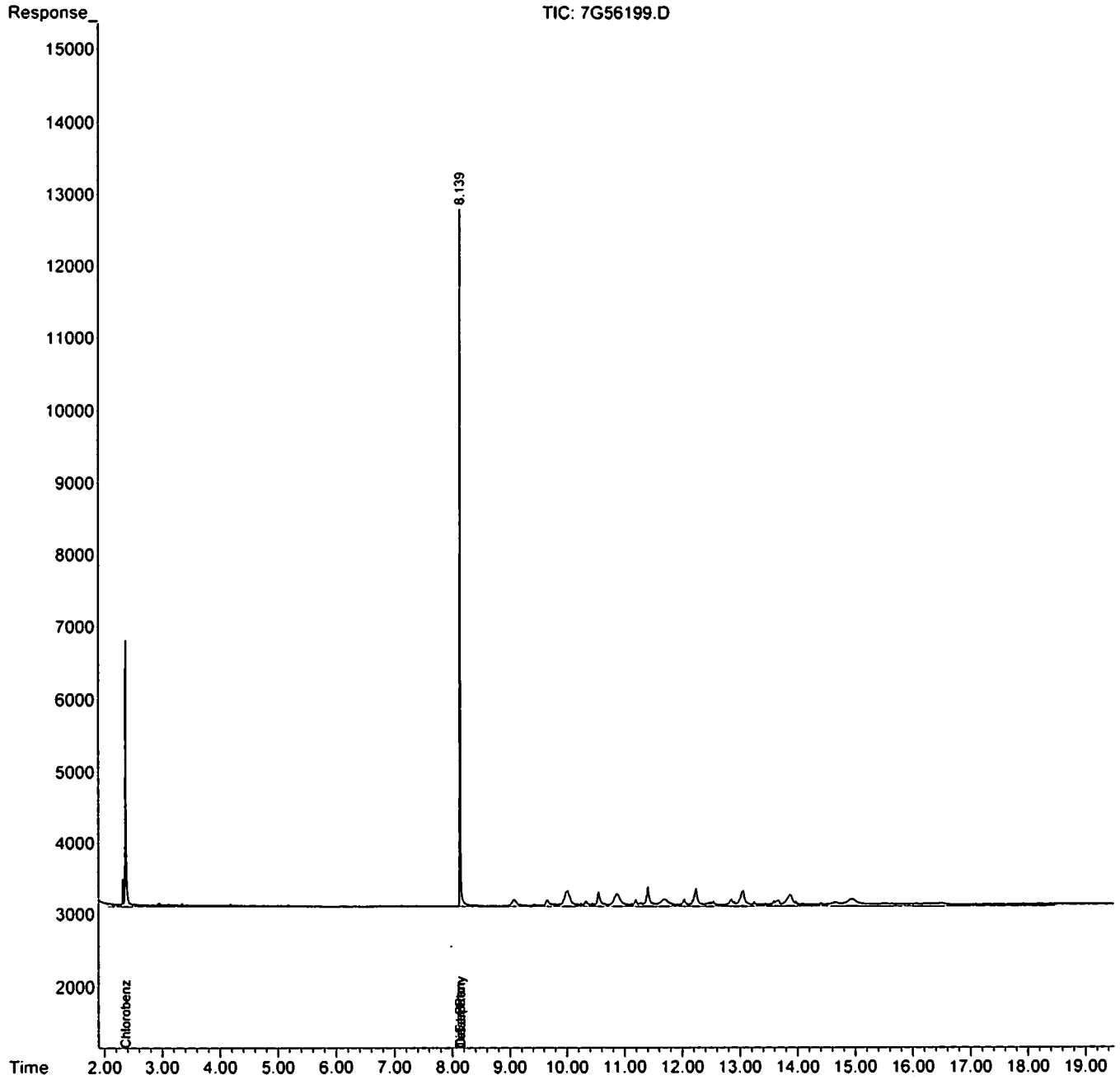
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.368	33700	10.070		
23)	O-Terphenyl	8.140	76018	12.381		
24)d	Diesel Range Organics(T	8.139f	169152	31.715		m
25)t	Total Petroleum Hydroca	8.139f	396186	75.992		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56199.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 13:02
Operator : ABM/AH
Sample : SMB95839
Misc : S,TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:22:07 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

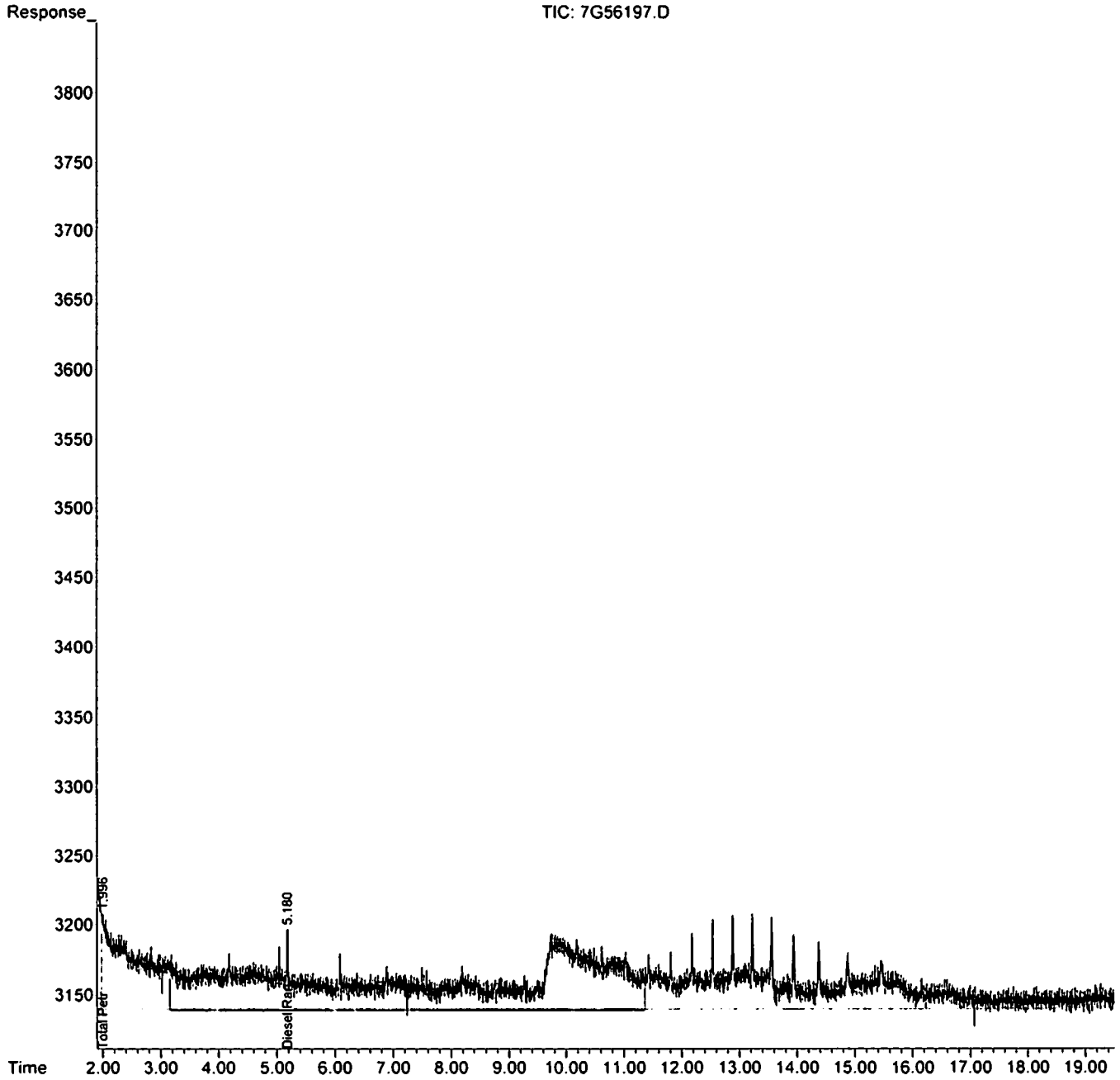
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.180	108944	20.426		m
25)t	Total Petroleum Hydroca	1.996	195935	37.582		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-10-21\
Data File : 7G56197.D
Signal(s) : FID2B.CH
Acq On : 10 Dec 2021 12:03
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 14:12:32 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56199.D	SMB95839	S	12/10/21 13:02	1		50	62				
7G56203.D	AD27774-001	S	12/10/21 15:00	1		50	59				
7G56204.D	AD27774-002	S	12/10/21 15:29	1		49	59				
7G56205.D	AD27774-003	S	12/10/21 15:58	1		43	60				
7G56198.D	SMB95839(MS)	S	12/10/21 12:32	1		50	52				
7G56200.D	AD27738-001	S	12/10/21 13:31	1		46	55				
7G56201.D	AD27738-001(MS)	S	12/10/21 14:00	1		45	106				
7G56202.D	AD27738-001(MSD)	S	12/10/21 14:30	1		50	59				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56198.D	SMB95839(MS)	12/10/2021 12:32:00 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1703.58**	**0**	**3000**	**57**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1670.94**	**0**	**3000**	**56**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Non Spike(If applicable):	7G56200.D	AD27738-001	12/10/2021 1:31:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1829.44**	**0**	**3000**	**61**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95839

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56202.D	AD27738-001(MSD)	12/10/2021 2:30:00 PM
Duplicate(If applicable):	7G56201.D	AD27738-001(MS)	12/10/2021 2:00:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	**1829.44**	**1670.94**	9.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95839
Blank Data File: 7G56199.D
Matrix: Soil

Blank Analysis Date: 12/10/21 13:02
Blank Extraction Date: 12/09/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27774-001	7G56203.D	12/10/21 15:00
AD27774-002	7G56204.D	12/10/21 15:29
AD27774-003	7G56205.D	12/10/21 15:58
AD27738-001(MSD	7G56202.D	12/10/21 14:30
AD27738-001(MS)	7G56201.D	12/10/21 14:00
AD27738-001	7G56200.D	12/10/21 13:31
SMB95839(MS)	7G56198.D	12/10/21 12:32

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56195.D	INST BLK	12/10/21 11:12	Soil					
7G56196.D	CAL TPH@20PPM	12/10/21 11:33	Soil	7G56196.	8.1465	0		
7G56197.D	INST BLK	12/10/21 12:03	Soil	7G56196.	0.0000	200		
7G56198.D	SMB95839(MS)	12/10/21 12:32	Soil	7G56196.	8.1418	0.0577		
7G56199.D	SMB95839	12/10/21 13:02	Soil	7G56196.	8.1398	0.0823		
7G56200.D	AD27738-001	12/10/21 13:31	Soil	7G56196.	8.1380	0.1044		
7G56201.D	AD27738-001(MS)	12/10/21 14:00	Soil	7G56196.	8.1391	0.0909		
7G56202.D	AD27738-001(MSD)	12/10/21 14:30	Soil	7G56196.	8.1405	0.0737		
7G56203.D	AD27774-001	12/10/21 15:00	Soil	7G56196.	8.1392	0.0896		
7G56204.D	AD27774-002	12/10/21 15:29	Soil	7G56196.	8.1377	0.1081		
7G56205.D	AD27774-003	12/10/21 15:58	Soil	7G56196.	8.1371	0.1154		
7G56206.D	CAL TPH@20PPM	12/10/21 16:35	Soil	7G56196.	8.1432	0.0405		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1120805 0186

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	---	---	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	---	---	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	---	---	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	---	---	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	---	---	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	---	---	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	---	---	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	---	---	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	---	---	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	---	---	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	---	---	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	---	---	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	---	---	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	---	---	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	---	---	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	---	---	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	---	---	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	---	---	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	---	---	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	---	---	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	---	---	---	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	---	---	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	---	---	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	---	---	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	---	---	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	---	---	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56196.D				7G56206.D											
Method:				8015				8015											
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM											
Calibration Date/Time				12/10/21 11:33				12/10/21 16:35											
				Conc				Conc				Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	13.79	20	31.1*		15.03	20	24.9*									
C9	20	1	0	13.65	20	31.8*		15.26	20	23.7*									
C10	20	1	0	13.61	20	32.0*		14.63	20	26.9*									
C12	20	1	0	14.45	20	27.8*		16.1	20	19.5									
C14	20	1	0	15.21	20	24.0*		15.23	20	23.9*									
C16	20	1	0	15.34	20	23.3*		16.32	20	18.4									
C17	20	1	0	11.21	20	44.0*		15.45	20	22.8*									
Pristane	20	1	0	20.93	20	4.7		18.63	20	6.9									
C18	20	1	0	15.48	20	22.6*		16.23	20	18.9									
Phytane	20	1	0	15.77	20	21.2*		16.8	20	16.0									
C20	20	1	0	16.57	20	17.2		17.74	20	11.3									
C22	20	1	0	16.6	20	17.0		17.59	20	12.1									
C24	20	1	0	16.79	20	16.1		17.63	20	11.9									
C26	20	1	0	16.88	20	15.6		17.8	20	11.0									
C28	20	1	0	17.27	20	13.7		18.21	20	9.0									
C30	20	1	0	17.89	20	10.6		18.72	20	6.4									
C32	20	1	0	18.15	20	9.3		19.34	20	3.3									
C34	20	1	0	18.02	20	9.9		19.56	20	2.2									
C36	20	1	0	17.86	20	10.7		19.38	20	3.1									
C40	20	1	0	16.62	20	16.9		18.36	20	8.2									
C44	20	1	0	15.83	20	20.9*		16.89	20	15.6									
Chlorobenzene	20	1	0	14.25	20	28.8*		15.59	20	22.1*									
O-Terphenyl	20	1	0	16.95	20	15.3		17.99	20	10.1									
Average Difference	20	1	0			20.2				14.2									

Flags/Notes: ** - Values outside of limits for this column/run*

Form7
RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD27774-001
Client Id: SB-009SS
Data File: 13M23230.D
Analysis Date: 12/10/21 17:12
Date Rec/Extracted: 12/08/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.97g:10ml
Final Vol: NA
Dilution: 83.8
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	24	U				

Worksheet #: 622192

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23230.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 17:12
Operator : SG
Sample : AD27774-001
Misc : M,MEXT!1
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 20 13:49:21 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

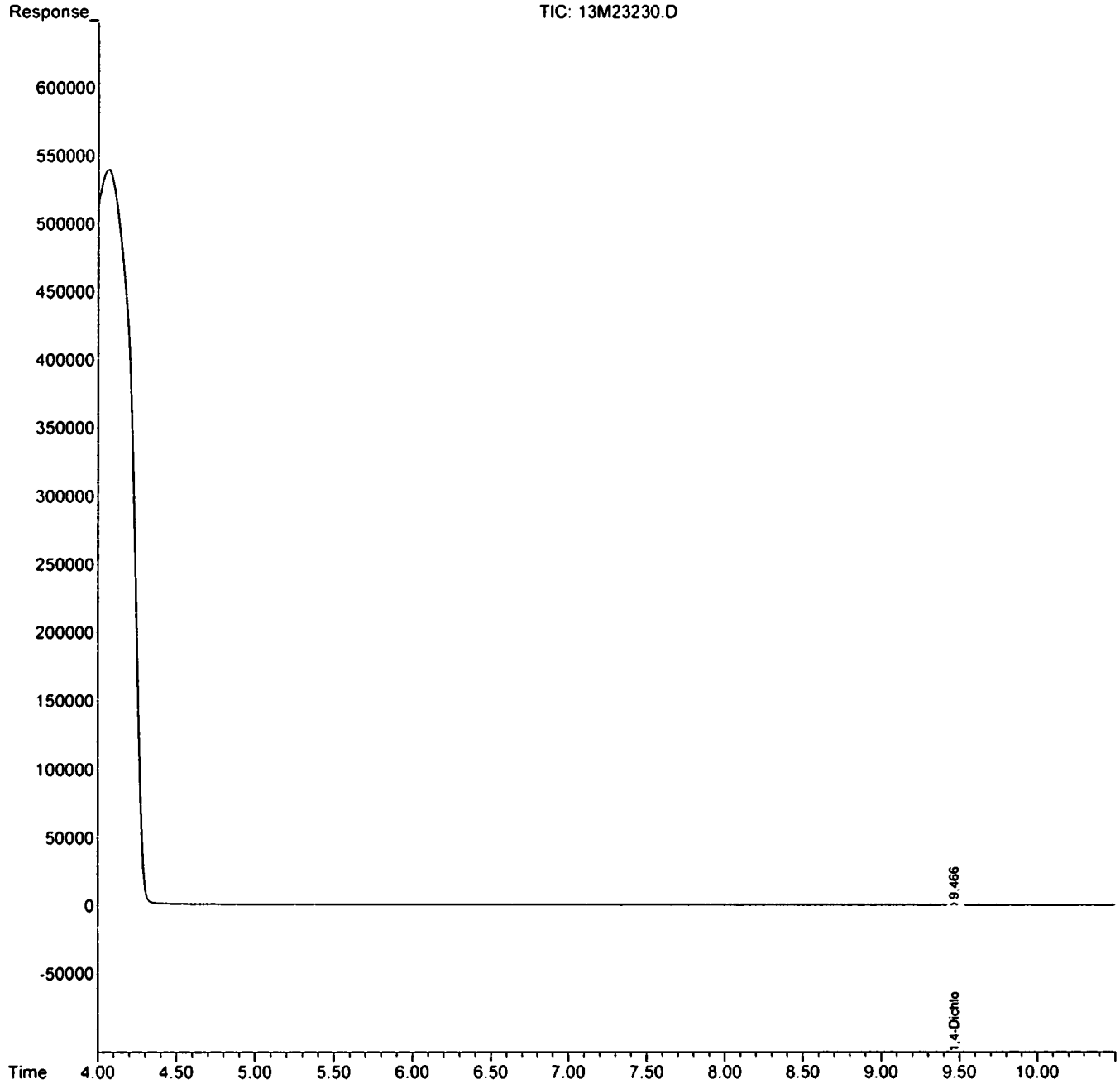
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.466	22628	27.489	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23230.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 17:12
Operator : SG
Sample : AD27774-001
Misc : M,MEXT!1
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 20 13:49:21 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD27774-002
Client Id: SB-010SS
Data File: 13M23231.D
Analysis Date: 12/10/21 17:29
Date Rec/Extracted: 12/08/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.98g:10ml
Final Vol: NA
Dilution: 83.6
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	24	U				

Worksheet #: 622192

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23231.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 17:29
Operator : SG
Sample : AD27774-002
Misc : M,MEXT!1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 20 13:49:35 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

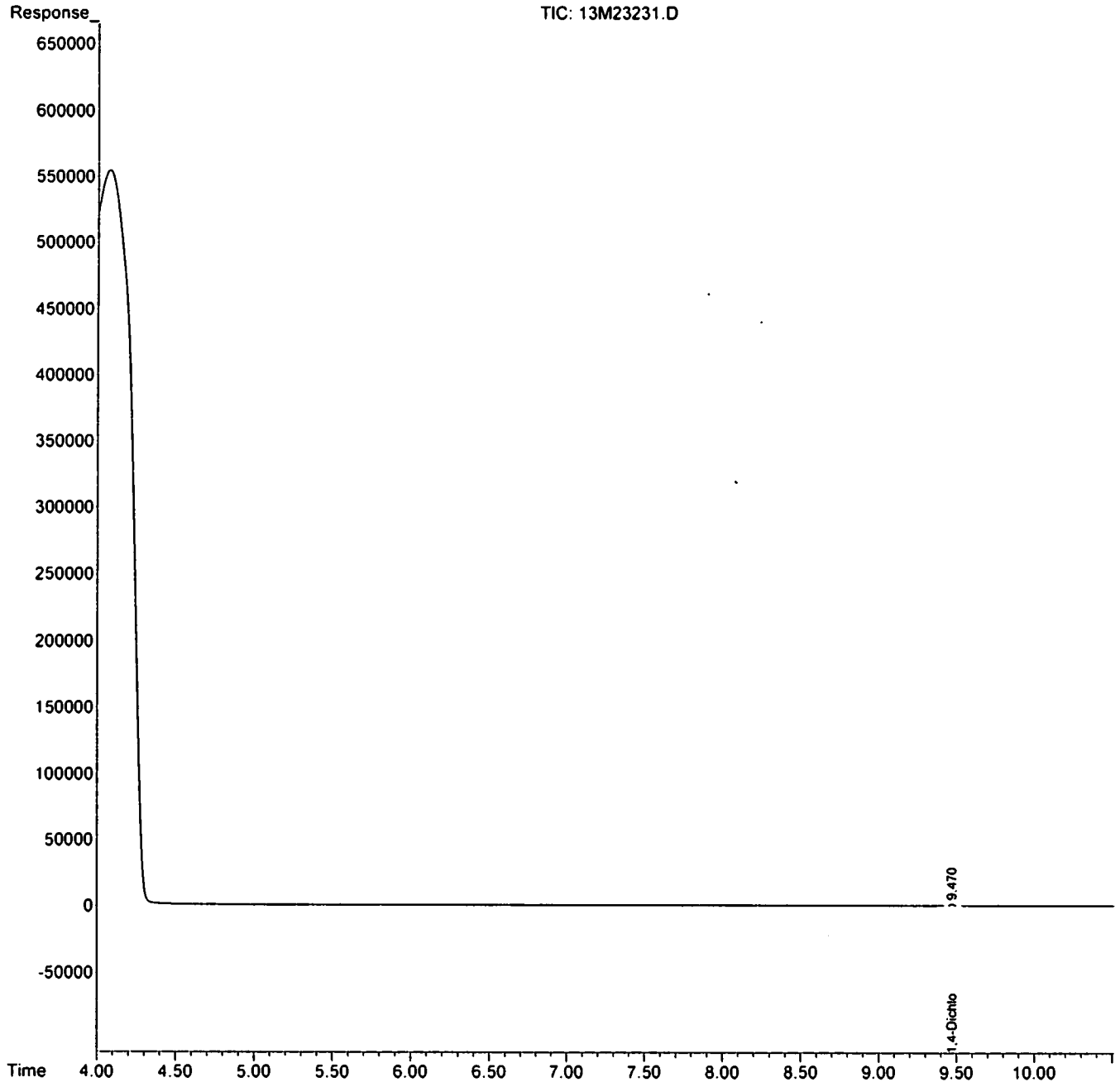
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)S	1,4-Dichlorobenzene-d4	9.471	23641	28.719	
	Target Compounds				
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23231.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 17:29
Operator : SG
Sample : AD27774-002
Misc : M,MEXT!1
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 20 13:49:35 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD27774-003(40UL)
Client Id: SB-011SS
Data File: 13M23285.D
Analysis Date: 12/16/21 12:45
Date Rec/Extracted: 12/08/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 7.83g:10ml
Final Vol: NA
Dilution: 1280
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	380	5400				

Worksheet #: 622192

Total Target Concentration 5400

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23285.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:45
Operator : JM
Sample : AD27774-003(40UL)
Misc : M,MEXT!1
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 20 13:49:08 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

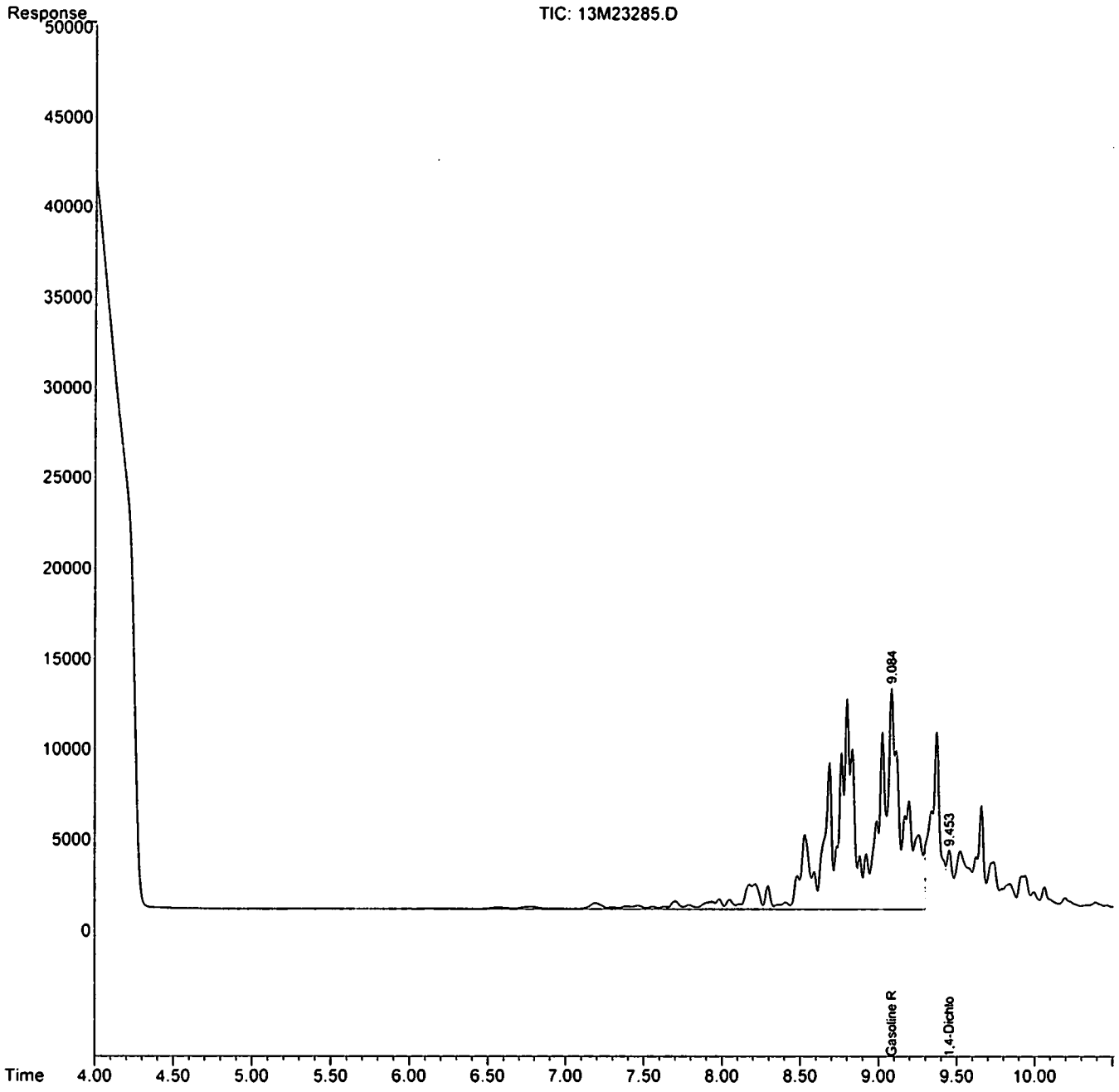
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.453	28306	34.386		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		d
4)g Gasoline Range Organics	9.084	2603515	3576.529	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23285.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:45
Operator : JM
Sample : AD27774-003(40UL)
Misc : M,MEXT!1
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 20 13:49:08 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23214.D
Analysis Date: 12/10/21 12:43
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 622192

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23214.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 12:43
Operator : SG
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 16:55:08 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

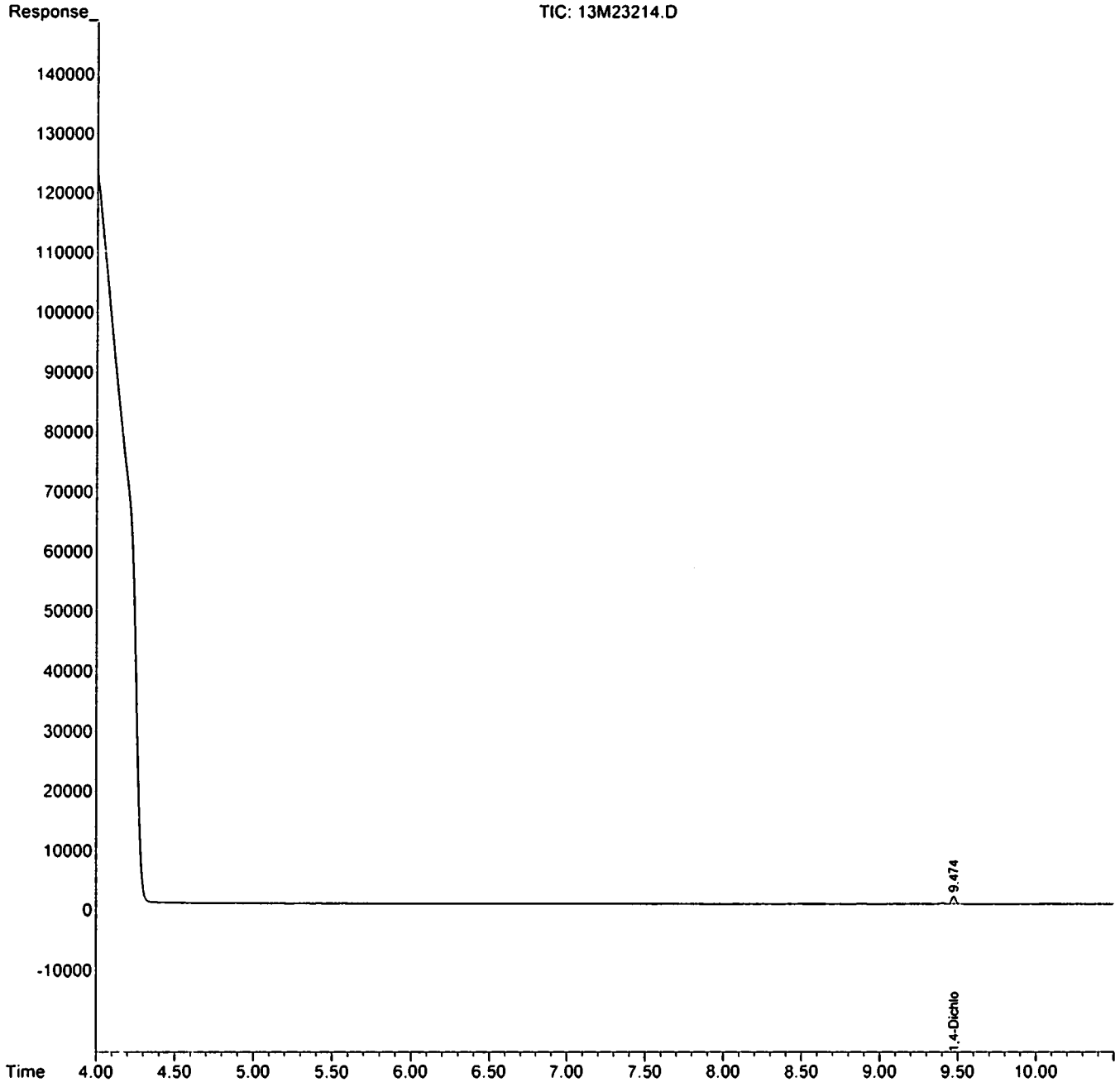
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.474	22306	27.098	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-10-21\
Data File : 13M23214.D
Signal(s) : FID1A.CH
Acq On : 10 Dec 2021 12:43
Operator : SG
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 10 16:55:08 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23283.D
Analysis Date: 12/16/21 12:11
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 622192 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23283.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:11
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 16 12:31:02 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

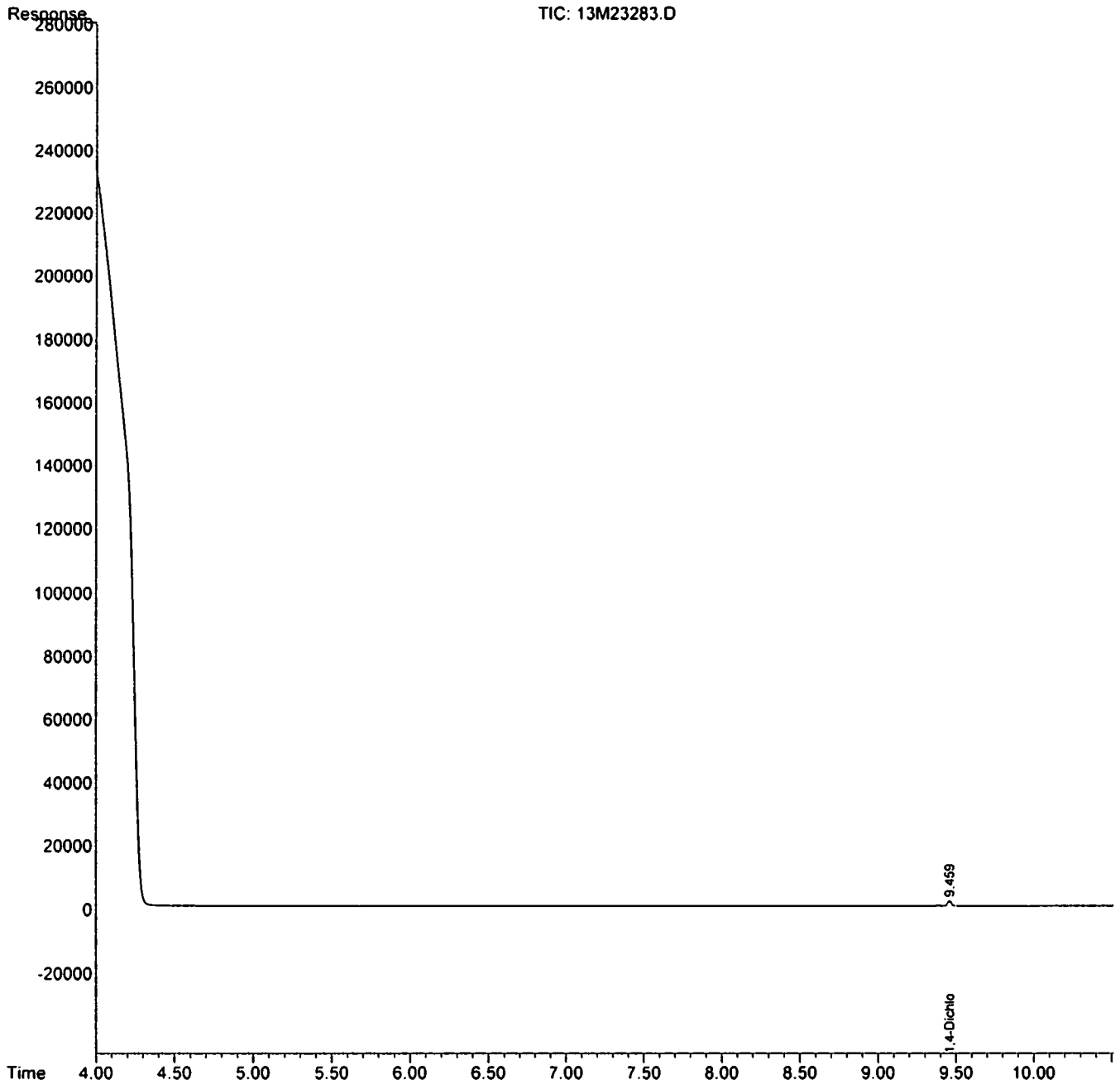
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.460	27431	33.323	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23283.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:11
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 16 12:31:02 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M23214.D	DAILY BLANK	M	12/10/21 12:43	1		90					
13M23283.D	DAILY BLANK	M	12/16/21 12:11	1		111					
13M23230.D	AD27774-001	M	12/10/21 17:12	1		92					
13M23231.D	AD27774-002	M	12/10/21 17:29	1		96					
13M23285.D	AD27774-003(40UL)	M	12/16/21 12:45	1		115					
13M23215.D	AD27710-017	M	12/10/21 12:59	1		100					
13M23216.D	MBS98187	M	12/10/21 13:16	1		120					
13M23217.D	AD27710-017(MS)	M	12/10/21 13:33	1		116					
13M23218.D	AD27710-017(MSD)	M	12/10/21 13:50	1		116					
13M23286.D	AD27810-002(MS)	M	12/16/21 13:01	1		126					
13M23287.D	AD27810-002(MSD)	M	12/16/21 13:18	1		128					
13M23288.D	MBS98248	M	12/16/21 13:34	1		142					
13M23305.D	AD27810-002	M	12/16/21 18:19	1		101					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS98187

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23216.D	MBS98187	12/10/2021 1:16:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2176.94	0	2000	109	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS98187

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23217.D	AD27710-017(MS)	12/10/2021 1:33:00 PM
Non Spike(If applicable):	13M23215.D	AD27710-017	12/10/2021 12:59:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2107.15	0	2000	105	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23218.D	AD27710-017(MSD)	12/10/2021 1:50:00 PM
Non Spike(If applicable):	13M23215.D	AD27710-017	12/10/2021 12:59:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2104.92	0	2000	105	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS98187

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23218.D	AD27710-017(MSD)	12/10/2021 1:50:00 PM
Duplicate(If applicable):	13M23217.D	AD27710-017(MS)	12/10/2021 1:33:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2104.92	2107.15	0.11	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23288.D	MBS98248	12/16/2021 1:34:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2314.2	0	2000	116	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23286.D	AD27810-002(MS)	12/16/2021 1:01:00 PM
Non Spike(If applicable):	13M23235.D	AD27810-002	12/10/2021 6:37:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2831.44	0	2000	142	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23287.D	AD27810-002(MSD)	12/16/2021 1:18:00 PM
Non Spike(If applicable):	13M23235.D	AD27810-002	12/10/2021 6:37:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2600.32	0	2000	130	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23287.D	AD27810-002(MSD)	12/16/2021 1:18:00 PM
Duplicate(If applicable):	13M23286.D	AD27810-002(MS)	12/16/2021 1:01:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2600.32	2831.44	8.5	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23214.D
Matrix: Methanol

Blank Analysis Date: 12/10/21 12:43
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27774-001	13M23230.D	12/10/21 17:12
AD27774-002	13M23231.D	12/10/21 17:29
AD27710-017(MSD	13M23218.D	12/10/21 13:50
AD27710-017(MS)	13M23217.D	12/10/21 13:33
MBS98187	13M23216.D	12/10/21 13:16
AD27710-017	13M23215.D	12/10/21 12:59

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23283.D
Matrix: Methanol

Blank Analysis Date: 12/16/21 12:11
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27774-003(40U	13M23285.D	12/16/21 12:45
MBS98248	13M23288.D	12/16/21 13:34
AD27810-002	13M23305.D	12/16/21 18:19
AD27810-002(MSD	13M23287.D	12/16/21 13:18
AD27810-002(MS)	13M23286.D	12/16/21 13:01

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23111.D	BLK	11/24/21 07:34	Aqueous	13M2315	9.4811	0.3667		
13M23114.D	CAL @ 250 PPB	11/24/21 08:24	Aqueous	13M2312	9.4798	0.2313		
13M23116.D	CAL @ 500 PPB	11/24/21 08:57	Aqueous	13M2312	9.4683	0.1099		
13M23118.D	CAL @ 750 PPB	11/24/21 09:30	Aqueous	13M2312	9.4693	0.1205		
13M23120.D	CAL @ 1000 PPB	11/24/21 10:04	Aqueous	13M2312	9.4613	0.0359		
13M23124.D	CAL @ 1500 PPB	11/24/21 11:35	Aqueous	13M2312	9.4803	0.2366		
13M23126.D	CAL @ 2000 PPB	11/24/21 12:08	Aqueous	13M2312	9.4597	0.019		
13M23128.D	CAL @ 4000 PPB	11/24/21 12:41	Aqueous	13M2312	9.4579	0		
13M23131.D	ICV	11/24/21 13:31	Aqueous	13M2312	9.4569	0.0106		
13M23134.D	DAILY BLANK	11/24/21 14:21	Methanol	13M2312	9.4528	0.0539		
13M23135.D	DAILY BLANK	11/24/21 14:37	Aqueous	13M2312	9.4491	0.0931		
13M23136.D	STD	11/24/21 14:58	Aqueous	13M2312	9.4595	0.0169		
13M23137.D	BLK	11/24/21 15:14	Aqueous	13M2312	9.4511	0.0719		
13M23138.D	BLK	11/24/21 15:30	Methanol	13M2312	9.4466	0.1195		
13M23139.D	BLK	11/24/21 15:47	Methanol	13M2312	9.4414	0.1746		
13M23140.D	AD27002-003(80uL)	11/24/21 16:03	Methanol	13M2312	9.4461	0.1248		
13M23141.D	BLK	11/24/21 16:20	Methanol	13M2312	9.4476	0.109		
13M23142.D	BLK	11/24/21 16:36	Methanol	13M2312	9.4552	0.0286		
13M23143.D	AD27002-003(400uL)	11/24/21 16:53	Methanol	13M2312	9.4609	0.0317		
13M23144.D	BLK	11/24/21 17:09	Methanol	13M2312	9.4552	0.0286		
13M23145.D	MBS97290	11/24/21 17:26	Methanol	13M2312	9.4541	0.0402		
13M23146.D	MBS97291	11/24/21 17:42	Aqueous	13M2312	9.4548	0.0328		
13M23147.D	AD27503-008(MS)	11/24/21 17:59	Methanol	13M2312	9.4481	0.1037		
13M23148.D	AD27503-008(MSD)	11/24/21 18:15	Methanol	13M2312	9.4456	0.1301		
13M23149.D	BLK	11/24/21 18:32	Aqueous	13M2312	9.4479	0.1058		
13M23150.D	AD27564-001	11/24/21 18:48	Methanol	13M2312	9.4461	0.1248		
13M23151.D	BLK	11/24/21 19:05	Aqueous	13M2312	9.4491	0.0931		
13M23152.D	MBS97292	11/24/21 19:21	Methanol	13M2312	9.4473	0.1121		
13M23153.D	CAL @ 2000 PPB	11/24/21 19:37	Aqueous	13M2312	9.4464	0.1217		
13M23154.D	2000 PPB	11/24/21 19:54	Aqueous	13M2315	9.4500	0.0381		
13M23155.D	BLK	11/24/21 20:11	Aqueous	13M2315	9.4477	0.0138		
13M23156.D	BLK	11/24/21 20:28	Aqueous	13M2315	9.4474	0.0106		
13M23157.D	BLK	11/24/21 20:45	Aqueous	13M2315	9.4486	0.0233		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23210.D	BLK	12/10/21 11:36	Aqueous	13M2323	9.5050	0.408		
13M23211.D	CAL @ 2000 PPB	12/10/21 11:53	Aqueous	13M2321	9.4822	0		
13M23212.D	BLK	12/10/21 12:09	Aqueous	13M2321	9.4803	0.02		
13M23213.D	BLK	12/10/21 12:26	Methanol	13M2321	9.4755	0.0707		
13M23214.D	DAILY BLANK	12/10/21 12:43	Methanol	13M2321	9.4743	0.0833		
13M23215.D	AD27710-017	12/10/21 12:59	Methanol	13M2321	9.4701	0.1277		
13M23216.D	MBS98187	12/10/21 13:16	Methanol	13M2321	9.4783	0.0411		
13M23217.D	AD27710-017(MS)	12/10/21 13:33	Methanol	13M2321	9.4800	0.0232		
13M23218.D	AD27710-017(MSD)	12/10/21 13:50	Methanol	13M2321	9.4776	0.0485		
13M23219.D	STD	12/10/21 14:06	Aqueous	13M2321	9.4746	0.0802		
13M23220.D	BLK	12/10/21 14:23	Aqueous	13M2321	9.4624	0.209		
13M23221.D	AD27728-004	12/10/21 14:40	Methanol	13M2321	9.4674	0.1562		
13M23222.D	AD27728-008	12/10/21 14:57	Methanol	13M2321	9.4667	0.1636		
13M23223.D	AD27728-012	12/10/21 15:15	Methanol	13M2321	9.4661	0.1699		
13M23224.D	AD27728-016	12/10/21 15:31	Methanol	13M2321	9.4680	0.1499		
13M23225.D	AD27758-004	12/10/21 15:48	Methanol	13M2321	9.4683	0.1467		
13M23226.D	AD27758-005	12/10/21 16:05	Methanol	13M2321	9.4807	0.0158		
13M23227.D	AD27758-006	12/10/21 16:21	Methanol	13M2321	9.4764	0.0612		
13M23228.D	AD27758-007	12/10/21 16:39	Methanol	13M2321	9.4761	0.0643		
13M23229.D	AD27738-001	12/10/21 16:55	Methanol	13M2321	9.4735	0.0918		
13M23230.D	AD27774-001	12/10/21 17:12	Methanol	13M2321	9.4663	0.1678		
13M23231.D	AD27774-002	12/10/21 17:29	Methanol	13M2321	9.4710	0.1182		
13M23232.D	AD27774-003	12/10/21 17:47	Methanol	13M2321	9.4261	0.5934		
13M23233.D	BLK	12/10/21 18:03	Methanol	13M2321	9.4671	0.1594		
13M23234.D	AD27810-001	12/10/21 18:20	Methanol	13M2321	9.4661	0.1699		
13M23235.D	AD27810-002	12/10/21 18:37	Methanol	13M2321	9.4723	0.1045		
13M23236.D	BLK	12/10/21 18:54	Aqueous	13M2321	9.4656	0.1752		
13M23237.D	BLK	12/10/21 19:10	Aqueous	13M2321	9.4604	0.2302		
13M23238.D	CAL @ 2000PPB	12/10/21 19:27	Aqueous	13M2321	9.4628	0.2048		
13M23239.D	CAL @ 2000PPB	12/10/21 19:44	Aqueous	13M2323	9.4663	0.037		
13M23240.D	BLK	12/10/21 20:01	Aqueous	13M2323	9.4605	0.0243		
13M23241.D	BLK	12/10/21 20:17	Aqueous	13M2323	9.4628	0		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23278.D	BLK	12/16/21 10:47	Aqueous	13M2330	9.4914	0.4149		
13M23279.D	2000PPB	12/16/21 11:03	Aqueous	13M2330	9.4746	0.2378		
13M23280.D	CAL @ 2000PPB	12/16/21 11:20	Aqueous	13M2328	9.4626	0		
13M23281.D	BLK	12/16/21 11:37	Aqueous	13M2328	9.4632	0.0063		
13M23282.D	BLK	12/16/21 11:54	Aqueous	13M2328	9.4626	0		
13M23283.D	DAILY BLANK	12/16/21 12:11	Methanol	13M2328	9.4597	0.0307		
13M23284.D	AD27870-001	12/16/21 12:28	Methanol	13M2328	9.4592	0.0359		
13M23285.D	AD27774-003(40UL)	12/16/21 12:45	Methanol	13M2328	9.4526	0.1057		
13M23286.D	AD27810-002(MS)	12/16/21 13:01	Methanol	13M2328	9.4615	0.0116		
13M23287.D	AD27810-002(MSD)	12/16/21 13:18	Methanol	13M2328	9.4605	0.0222		
13M23288.D	MBS98248	12/16/21 13:34	Methanol	13M2328	9.4653	0.0285		
13M23289.D	BLK	12/16/21 13:51	Aqueous	13M2328	9.4623	0.0032		
13M23290.D	BLK	12/16/21 14:08	Aqueous	13M2328	9.4593	0.0349		
13M23291.D	AD27850-008	12/16/21 14:25	Methanol	13M2328	9.4631	0.0053		
13M23292.D	AD27850-010	12/16/21 14:41	Methanol	13M2328	9.4610	0.0169		
13M23293.D	AD27850-011	12/16/21 14:58	Methanol	13M2328	9.4628	0.0021		
13M23294.D	AD27850-012	12/16/21 15:15	Methanol	13M2328	9.4574	0.055		
13M23295.D	AD27850-013	12/16/21 15:31	Methanol	13M2328	9.4551	0.0793		
13M23296.D	AD27850-014	12/16/21 15:49	Methanol	13M2328	9.4541	0.0899		
13M23297.D	AD27822-001	12/16/21 16:05	Methanol	13M2328	9.4536	0.0952		
13M23298.D	AD27893-009	12/16/21 16:22	Methanol	13M2328	9.4607	0.0201		
13M23299.D	AD27893-010	12/16/21 16:40	Methanol	13M2328	9.4621	0.0053		
13M23300.D	AD27893-011	12/16/21 16:57	Methanol	13M2328	9.4623	0.0032		
13M23301.D	AD27810-001	12/16/21 17:13	Methanol	13M2328	9.4575	0.0539		
13M23302.D	2000PPB	12/16/21 17:30	Aqueous	13M2328	9.4587	0.0412		
13M23305.D	AD27810-002	12/16/21 18:19	Methanol	13M2328	9.4508	0.1248		
13M23306.D	CAL @ 2000 PPB	12/16/21 18:36	Aqueous	13M2328	9.4521	0.111		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1120805 0217

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M23128.	CAL @ 4000 PPB	11/24/21 12:41	2	13M23126.	CAL @ 2000 PPB	11/24/21 12:08
3	13M23124.	CAL @ 1500 PPB	11/24/21 11:35	4	13M23120.	CAL @ 1000 PPB	11/24/21 10:04
5	13M23118.	CAL @ 750 PPB	11/24/21 09:30	6	13M23116.	CAL @ 500 PPB	11/24/21 08:57
7	13M23114.	CAL @ 250 PPB	11/24/21 08:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1152	0.0918	0.0778	0.0779	0.0742	0.0704	0.0686	----	0.0823	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0009	0.0008	0.0008	0.0010	0.0009	0.0009	0.0008	----	0.000910	5.44	0.992	0.996	8.8	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0015	0.0013	0.0014	0.0014	0.0014	0.0016	----	0.00150	9.27	0.997	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0784	0.0756	0.0792	0.0709	0.0701	0.0597	0.0754	----	0.0728	8.51	0.999	0.999	9.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.5 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 , Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				13M23211.D				13M23238.D				13M23280.D				13M23306.D			
Method:				8015				8015				8015				8015			
Calibration Name:				CAL @ 2000 PPB				CAL @ 2000PPB				CAL @ 2000PPB				CAL @ 2000 PPB			
Calibration Date/Time				12/10/21 11:53				12/10/21 19:27				12/16/21 11:20				12/16/21 18:36			
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1701	2000	14.9		1815	2000	9.3		1973	2000	1.4		1970	2000	1.5				

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27774-001	% Solid:	88	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-009SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/8/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.23	3.3	1	0.5	100	12/09/21	966640921	BNEW	37	MS	MS3_7700SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	12/09/21	966640921	BNEW	37	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27774-001	% Solid:	88	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-009SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/8/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.7	14	1	0.5	50	12/10/21	96663	S27976A3	34	P	PEICP3A
7439-92-1	Lead	5.7	6.1	1	0.5	50	12/10/21	96663	S27976A3	34	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27774-002	% Solid:	86	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-010SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/8/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.23	3.3	1	0.5	100	12/09/21	966640921BNEW		38	MS	MS3_7700SWA
7440-43-9	Cadmium	0.47	ND	1	0.5	100	12/09/21	966640921BNEW		38	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27774-002	% Solid:	86	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-010SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/8/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.8	22	1	0.5	50	12/10/21	96663	S27976A3	35	P	PEICP3A
7439-92-1	Lead	5.8	7.4	1	0.5	50	12/10/21	96663	S27976A3	35	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27774-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-011SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/8/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.24	5.9	1	0.5	100	12/09/21	966640921	BNEW	39	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	12/09/21	966640921	BNEW	39	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27774-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-011SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/8/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	6.0	16	1	0.5	50	12/10/21	96663	S27976A3	36	P	PEICP3A
7439-92-1	Lead	6.0	7.1	1	0.5	50	12/10/21	96663	S27976A3	36	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96663 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96663 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-36-0	Antimony	2.0	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-38-2	Arsenic	2.0	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-41-7	Beryllium	0.60	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-43-9	Cadmium	0.60	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-28-0	Thallium	2.5	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-31-5	Tin	10	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-32-6	Titanium	5.0	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-62-2	Vanadium	5.0	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	12/10/21	96663	S27976A3	17	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96664 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96664 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.40	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	12/10/21	96664	21021ANEW	20	MS	1S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	12/09/21	96664	20921BNEW	20	MS	1S3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/09/21
Data File: S120921BNEW
Prep Batch: 96664
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-363138-9	Rec	CCV V-363142-18	Rec	CCV V-363142-30	Rec	CCV V-363142-42	Rec	CCV V-363142-53	Rec		Rec		Rec		Rec
Antimony	50/50	52.29000	105	52.36100	105	51.08600	102	49.77000	100	49.36800	99						
Arsenic	50/50	51.79400	104	50.69900	101	51.08000	102	50.77100	102	51.20000	102						
Beryllium	50/50	51.78000	104	51.53200	103	51.38100	103	48.63700	97	49.53900	99						
Cadmium	50/50	51.64000	103	51.88900	104	51.08000	102	50.91300	102	50.63900	101						
Lead	50/50	52.13300	104	53.65600	107	53.32600	107	52.65700	105	52.89100	106						
Potassium	5000/5000	5170.9920	103	5145.8070	103	5070.5160	101	5069.3480	101	5121.2470	102						
Selenium	50/250	50.27600	101	256.20900	102	255.87300	102	255.67700	102	256.16400	102						
Silver	10/50	10.34400	103	52.10900	104	51.58200	103	51.54400	103	51.33400	103						
Sodium	5000/5000	5226.3880	105	5172.1320	103	5131.3900	103	5028.8830	101	5120.2440	102						
Vanadium	50/50	51.15100	102	51.58300	103	51.18900	102	50.96500	102	51.40400	103						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/09/21
Data File: S120921BNEW
Prep Batch: 96664
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-363143	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-363141	Recovery	Low Limit	High Limit
Magnesium	500	518.537	104	80	120	50000	51529.710	103	90	110
Aluminum	500	520.978	104	80	120	15000	15596.919	104	90	110
Arsenic	1	1.019	102	80	120	500	521.829	104	90	110
Barium	5	5.205	104	80	120	500	522.255	104	90	110
Beryllium	1	1.087	109	80	120	500	503.235	101	90	110
Calcium	500	522.841	105	80	120	50000	53574.861	107	90	110
Cadmium	2	2.029	101	80	120	500	524.502	105	90	110
Cobalt	2	2.059	103	80	120	500	508.319	102	90	110
Chromium	2	2 122	106	80	120	500	517.500	104	90	110
Copper	10	10 372	104	80	120	500	511.983	102	90	110
Silver	1	0.954	95	80	120	500	96.636	19 a	90	110
Potassium	500	509.245	102	80	120	50000	52546.312	105	90	110
Zinc	20	21.297	106	80	120	500	503.507	101	90	110
Manganese	6	6.515	109	80	120	500	522.043	104	90	110
Molybdenum	1	1.037	104	80	120	500	521.297	104	90	110
Sodium	500	486.433	97	80	120	50000	52264.988	105	90	110
Nickel	3	3.233	108	80	120	500	520.965	104	90	110
Lead	2	1.993	100	80	120	500	498.365	100	90	110
Antimony	4	3.988	100	80	120	500	511.283	102	90	110
Selenium	10	9.986	100	80	120	2500	2532.677	101	90	110
Thallium	2	2.079	104	80	120	500	508.766	102	90	110
Vanadium	1	1 097	110	80	120	500	531.860	106	90	110
Iron	500	530.960	106	80	120	50000	51614.737	103	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/10/21
Data File: S27976A3
Prep Batch: 96663
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-6	Rec	CCV V-360409-15	Rec	CCV V-360409-26	Rec	CCV V-360409-37	Rec	CCV V-360409-43	Rec	Rec	Rec	Rec	Rec
Aluminum	5/5	4.89808	98	5.12010	102	4.79591	96	4.60412	92	4.57489	91				
Barium	.5/.5	0.49095	98	0.51287	103	0.48402	97	0.46468	93	0.46314	93				
Calcium	50/50	50.04770	100	51.84550	104	49.33460	99	47.53110	95	47.33940	95				
Chromium	.5/.5	0.48997	98	0.51395	103	0.48472	97	0.46404	93	0.46214	92				
Cobalt	.5/.5	0.50786	102	0.52767	106	0.49149	98	0.46989	94	0.46517	93				
Copper	.5/.5	0.50204	100	0.51431	103	0.48134	96	0.46405	93	0.45957	92				
Iron	5/5	4.90859	98	5.12653	103	4.81149	96	4.62039	92	4.60128	92				
Lead	.5/.5	0.49809	100	0.51902	104	0.48314	97	0.46111	92	0.45384	91				
Magnesium	50/50	50.72900	101	51.18990	102	47.66830	95	47.06350	94	46.83950	94				
Manganese	.5/.5	0.49826	100	0.51577	103	0.48723	97	0.47170	94	0.47034	94				
Nickel	.5/.5	0.51246	102	0.53579	107	0.50088	100	0.47952	96	0.47388	95				
Zinc	.5/.5	0.50807	102	0.51508	103	0.47582	95	0.45208	90	0.44726	89 c				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/10/21
Data File: S27976A3
Prep Batch: 96663
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360414	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	4.87640	98	80	120	500	504.804	101	90	110
Aluminum	2.0	2.01054	101	80	120	500	513.931	103	90	110
Arsenic	0.04	0.0370587	93	80	120	10	10.2572	103	90	110
Boron	0.2	0.0916692	46a	80	120	5	4.73577	95	90	110
Barium	0.1	0.104881	105	80	120	10	10.3331	103	90	110
Beryllium	0.012	0.0144672	121a	80	120	5	4.93870	99	90	110
Calcium	10	10.1071	101	80	120	500	475.897	95	90	110
Cadmium	0.012	0.0102150	85	80	120	5	5.39750	108	90	110
Cerium	0.2	0.193	96	80	120	25	25.37	101	90	110
Cobalt	0.025	0.0226775	91	80	120	5	4.93800	99	90	110
Chromium	0.05	0.0526695	105	80	120	10	9.91705	99	90	110
Copper	0.05	0.0513848	103	80	120	10	10.8064	108	90	110
Silver	0.015	0.0161586	108	80	120	1	1.11364	111a	90	110
Potassium	NA	-81.2065		80	120	200	1364.79	682a	90	110
Zinc	0.1	0.0956756	96	80	120	10	9.78205	98	90	110
Manganese	0.1	0.101247	101	80	120	10	10.0930	101	90	110
Molybdenum	0.025	0.0259039	104	80	120	10	9.91162	99	90	110
Sodium	NA	2.91084		80	120	1000	1194.64	119a	90	110
Nickel	0.05	0.0467888	94	80	120	10	9.85454	99	90	110
Lead	0.05	0.0525123	105	80	120	10	9.95107	100	90	110
Antimony	0.04	0.0373709	93	80	120	5	5.42125	108	90	110
Selenium	0.05	0.0409299	82	80	120	5	4.99508	100	90	110
Silicon	0.2	0.257779	129a	80	120	25	25.5053	102	90	110
Tin	0.2	0.201676	101	80	120	10	10.2541	103	90	110
Titanium	0.1	0.100558	101	80	120	10	10.2998	103	90	110
Thallium	0.05	0.0588558	118	80	120	5	4.95712	99	90	110
Vanadium	0.1	0.104649	105	80	120	10	9.37205	94	90	110
Iron	2.0	2.02793	101	80	120	400	393.097	98	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/09/21
Data File: S120921BNEW
Prep Batch: 96664
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-363139-11	CCB V-363139-19	CCB V-363139-31	CCB V-363139-43	CCB V-363139-54	MB 96664-20	
Antimony	2U	4U	4U	4U	4U	400U	
Arsenic	.5U	1U	1U	1U	1U	100U	
Beryllium	.5U	1U	1U	1U	1U	100U	
Cadmium	1U	2U	2U	2U	2U	200U	
Lead	1U	2U	2U	2U	2U	200U	
Potassium	250U	500U	500U	500U	500U	50000U	
Selenium	5U	10U	10U	10U	10U	1000U	
Silver	.5U	1U	1U	1U	1U	100U	
Sodium	250U	500U	500U	500U	500U	50000U	
Vanadium	.5U	1U	1U	1U	1U	100U	

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/10/21
Data File: S27976A3
Prep Batch: 96663
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-7	CCB V-360404-16	CCB V-360404-27	CCB V-360404-38	CCB V-360404-44	MB 96663 (100)-17
Aluminum	1 U	2 U	2 U	2 U	2 U	100U
Barium	.05 U	.1 U	.1 U	.1 U	.1 U	5U
Calcium	5 U	10 U	10 U	10 U	10 U	500U
Chromium	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Cobalt	.0125 U	.025 U	.025 U	.025 U	.025 U	1.3U
Copper	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Iron	1 U	2 U	2 U	2 U	2 U	100U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Magnesium	2.5 U	5 U	5 U	5 U	5 U	250U
Manganese	.05 U	.1 U	.1 U	.1 U	.1 U	5U
Nickel	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	5U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/09/21
Data File: S120921BNEW
Prep Batch: 96664
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-363140-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	51206.24	102							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	159491.5	106							
Iron	125000	128528.4	103							
Lead	0	U								
Magnesium	50000	50831.07	102							
Potassium	50000	52081	104							
Selenium	0	U								
Silver	0	U								
Sodium	125000	131696.5	105							
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/10/21
Data File: S27976A3
Prep Batch: 96663
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120805

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	528.587	106							
Barium	0	U								
Calcium	500	495.167	99							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	200.003	100							
Lead	0	U								
Magnesium	500	517.61	104							
Manganese	0	U								
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96663

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96663

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96663	1	S27976A3	19	0.6397	.734	87		67	125
Lead	96663	1	S27976A3	19	1.6322	1.86	88		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96663

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96663	1	S27976A3	18	0.7021	.734	96		67	125
Lead	96663	1	S27976A3	18	1.8283	1.86	98		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96663	1	S27976A3	23	S27976A3	20	0.6311	0.1820	0.5	90		75	125
Lead	96663	1	S27976A3	23	S27976A3	20	0.6911	0.2715	0.5	84		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96663	1	S27976A3	22	S27976A3	20	0.6210	0.1820	0.5	88		75	125
Lead	96663	1	S27976A3	22	S27976A3	20	0.6749	0.2715	0.5	81		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA

PREP BATCH: 96663

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27764-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S27976A3	24	S27976A3	20	0.6268	0.1820	0.50	89		75	125
Lead	1	S27976A3	24	S27976A3	20	0.6997	0.2715	0.50	86		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96664

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR | Matrix: SOIL | SampleID: LCS MR 96664

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96664	1	S120921B	22	240.1270	225	107		65	121
Cadmium	96664	1	S120921B	22	265.5670	249	107		70	117

TxtQcType: LCS | Matrix: SOIL | SampleID: LCS 96664

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96664	1	S120921B	21	226.7260	225	101		65	121
Cadmium	96664	1	S120921B	21	252.3680	249	101		70	117

TxtQcType: MSD | Matrix: SOIL | SampleID: AD27764-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96664	1	S120921B	27	S120921B	23	247.9060	12.4670	250	94		75	125
Cadmium	96664	1	S120921B	27	S120921B	23	249.7740	2U	250	100		75	125

TxtQcType: MS | Matrix: SOIL | SampleID: AD27764-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96664	1	S120921B	26	S120921B	23	247.7650	12.4670	250	94		75	125
Cadmium	96664	1	S120921B	26	S120921B	23	252.5520	2U	250	101		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96664

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27764-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S120921B	28	S120921B	23	65.4960	12.4670	50	106		75	125
Cadmium	1	S120921B	28	S120921B	23	53.6260	2U	50	107		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96663

Instrument Type: ICP/HG

Analytical Method(s): 6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96663

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96663	S27976A3	19	S27976A3	18	0.6397	0.7021	9.3	20
Lead	96663	S27976A3	19	S27976A3	18	1.6322	1.8283	11	20

TxtQcType: MR Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96663	S27976A3	21	S27976A3	20	0.1937	0.1820	6.2	20
Lead	96663	S27976A3	21	S27976A3	20	0.2863	0.2715	5.3	20

TxtQcType: MSD Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96663	S27976A3	23	S27976A3	22	0.6311	0.6210	1.6	20
Lead	96663	S27976A3	23	S27976A3	22	0.6911	0.6749	2.4	20

TxtQcType: SD Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Chromium	96663	S27976A3	25	S27976A3	20	5	0.0367	0.1820	0.83	10
Lead	96663	S27976A3	25	S27976A3	20	5	0.0554	0.2715	2	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96664

Instrument Type: ICPMS

Analytical Method(s): 6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96664

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96664	S120921B	22	S120921B	21	240.1270	226.7260	5.7	20
Cadmium	96664	S120921B	22	S120921B	21	265.5670	252.3680	5.1	20

TxtQcType: MR Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96664	S120921B	24	S120921B	23	13.9140	12.4670	11	20
Cadmium	96664	S120921B	24	S120921B	23	2U	2U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96664	S120921B	27	S120921B	26	247.9060	247.7650	.057	20
Cadmium	96664	S120921B	27	S120921B	26	249.7740	252.5520	1.1	20

TxtQcType: SD Matrix: SOIL SampleID: AD27764-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Arsenic	96664	S120921B	25	S120921B	23	5	2.4710	12.4670	0.9	20
Cadmium	96664	S120921B	25	S120921B	23	5	0.1220	0.6060	0.66	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 27976 Analyst: KJ

QC Number: 96663 Prep Date: 12/9/21

Matrix: SOIL (6010) Reviewed By: DC

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50 mL	50 mL				--	
LCS	0.5g	"				--	
LCSD	"	"				--	
1. 27764 -001							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -001							
MR -001							
MS -001							Balance used: 039
MSD -001							Pipettes used: 153, 149
2. 27765 -014							
3. 27758 -003							Hot Block used: 4
4. 27760 -003							
5. " -005							
6. 27766 -001							
7. " -004							
8. 27774 -001							
9. " -002							
10. " -003							
11. 27786 -004							
12. " -006							
13. " -008							
14. 27787 -001	"	"					
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 94.3°C (90-95° C) Start Time: 12:30 PM End Time: 2:10 PM

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 19201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 13719, 13730, 358096
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5mL	V- 142966
HCl	5.0mL	V- 19217
H_2O_2	1.5mL	V- 14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0mL	V- 359994
1:1 HCl		V-

Relinquished By KJ Date 12/9/21

Received By DC Date 12/10/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 27977 Analyst: KJ

QC Number: 96664 Prep Date: 12/9/21

Matrix: SOIL Reviewed By: R

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50 mL	50 mL	25 mL	50 mL		–	
LCS	0.1g	↓	↓	↓		–	
LCSD	↓	↓	↓	↓		–	
1. 27764 -001	0.5g	↓	↓	↓			Samples are combined prior to analysis to provide extra sample volume for analysis
~~1. Analytical Duplicate~~	↓	↓	↓	↓			
MR -001	↓	↓	↓	↓			
MS -001	↓	↓	↓	↓			Balance used: 039
MSD -001	↓	↓	↓	↓			Pipettes used: 153 149
2. 27765 -014	↓	↓	↓	↓			
3. 27759 -003	↓	↓	↓	↓			Hot Block used: 5
4. 27760 -003	↓	↓	↓	↓			
5. ↓ -005	↓	↓	↓	↓			
6. 27766 -001	↓	↓	↓	↓			
7. 27774 -001	↓	↓	↓	↓			
8. ↓ -002	↓	↓	↓	↓			
9. ↓ -003	↓	↓	↓	↓			
10. 27749 -001	↓	↓	↓	↓			
11. -002	↓	↓	↓	↓			
12. -003	↓	↓	↓	↓			
13. -004	↓	↓	↓	↓			
14. -005	↓	↓	↓	↓			
15. 27786 -004	↓	↓	↓	↓			
16. -006	↓	↓	↓	↓			
17. ↓ -008	↓	↓	↓	↓			
18: 27787 -001	↓	↓	↓	↓			
19.							
20.							

Hot Plate Temperature: 93.6° C (90-95° C) Start Time: 12:30PM End Time: 2:10PM

	Volume mL	Lot #
LCS, LCSD	0.1g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.25ml	V- 13729, 13730
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5mL	V- 14296
HCl	1.0 mL	V- 14247
H_2O_2	1.5ml	V- 14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0mL	V- 359994
1:1 HCl		V-

Relinquished By KJ Date 12/9/21

Received By R Date 12/9/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S27976A3.txt

Analysis Date: 12/10/21 **Instrument** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-360404	1	CAL	06:40	1							V-360404(ICB/CCB)
CALBLK V-360404	1	CAL	06:48	2							V-360404(ICB/CCB)
CALST2 V-360414	1	CAL	06:51	3							V-360414(LLICV/LLCCV soil)
CALST3 V-360405	1	CAL	06:55	4							V-360405(ICS3 - Middle Std)
CALST4 V-360406	1	CAL	06:59	5							V-360406(ICS4 High std)
ICV V-360409	1	ICV	07:03	6							V-360409(CCV)
ICB V-360404	1	ICB	07:07	7							V-360404(ICB/CCB)
LRS V-360412	1	LRS	07:11	8	MET-TAL6010S	SOIL	SOIL	SW846	96663		V-360412(LRS)
ICS3 V-360405	1	ICS	07:15	9							V-360405(ICS3 - Middle Std)
RINSE	1	NA	07:19	10		SOIL	SOIL	SW846	96663		0
LLICV V-360414	1	LLICV	07:23	11	MET-TAL6010S	SOIL	SOIL	SW846	96663		V-360414(LLICV/LLCCV soil)
ICSA V-360410	1	ICSA	07:27	12							V-360410(ICSA)
AD27726-001	5	SMP	07:32	13	MET-RCRA-S	SOIL	SOIL	SW846	96659	Pb reported	0
AD27750-004	5	SMP	07:36	14	MET-TAL6010S	SOIL	SOIL	SW846	96659	Mn reported	0
CCV V-360409	1	CCV	07:40	15							V-360409(CCV)
CCB V-360404	1	CCB	07:44	16							V-360404(ICB/CCB)
MB 96663 (100)	1	MB	07:48	17	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
LCS 96663	1	LCS	07:51	18	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
LCS MR 96663	1	LCS	07:56	19	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
AD27764-001	1	SMP	08:01	20	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
AD27764-001	1	MR	08:06	21	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
AD27764-001	1	MS	08:11	22	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
AD27764-001	1	MSD	08:16	23	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
AD27764-001	1	PS	08:20	24	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
AD27764-001	5	SD	08:25	25	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
CCV V-360409	1	CCV	08:29	26							V-360409(CCV)
CCB V-360404	1	CCB	08:33	27							V-360404(ICB/CCB)
AD27765-014	1	SMP	08:37	28	MET-TAL6010S	SOIL	SOIL	SW846	96663		0
AD27758-003	1	SMP	08:42	29	SRSMETALS-S	SOIL	SOIL	SW846	96663		0
AD27760-003	1	SMP	08:46	30	SRSMETALS-S	SOIL	SOIL	SW846	96663		0
AD27760-005	1	SMP	08:50	31	SRSMETALS-S	SOIL	SOIL	SW846	96663		0
AD27766-001	1	SMP	08:55	32	MET-TAL6010S	SOIL	SOIL	SW846	96663	Mn>LRS not reported	0
AD27766-004	1	SMP	09:00	33	MET-1-SOIL	SOIL	SOIL	SW846	96663		0
AD27774-001	1	SMP	09:05	34	MET-RCRA-S	SOIL	SOIL	SW846	96663		0
AD27774-002	1	SMP	09:09	35	MET-RCRA-S	SOIL	SOIL	SW846	96663		0
AD27774-003	1	SMP	09:14	36	MET-RCRA-S	SOIL	SOIL	SW846	96663		0
CCV V-360409	1	CCV	09:18	37							V-360409(CCV)
CCB V-360404	1	CCB	09:22	38							V-360404(ICB/CCB)
AD27786-004	1	SMP	09:26	39	MET-TAL6010S	SOIL	SOIL	SW846	96663	Zn not reported	0
AD27786-006	1	SMP	09:30	40	MET-TAL6010S	SOIL	SOIL	SW846	96663	Zn not reported	0
AD27786-008	1	SMP	09:33	41	MET-TAL6010S	SOIL	SOIL	SW846	96663	Zn not reported	0
AD27787-001	1	SMP	09:37	42	MET-TAL6010S	SOIL	SOIL	SW846	96663	Zn not reported	0
CCV V-360409	1	CCV	09:41	43						Zn failed	V-360409(CCV)
CCB V-360404	1	CCB	09:45	44							V-360404(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168 1.105 12/10/2021 10:32:51 AM

Run is oK All elements reported

12/16/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S120921BNEW.txt

Analysis Date: 12/09/21 **Instrument** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	19:10	1	MET-2-6020	SOIL	SOIL	SW846	96664		0
RINSE	1	NA	19:14	2	MET-2-6020	SOIL	SOIL	SW846	96664		0
CalBlk V-363132	1	ISBLK	19:19	3		SOIL	SOIL				V-363132(Cal Blk WARNING)
CalStd1 V-363133	1	CAL	19:23	4							V-363133(Cal Std-1 WARNING)
CalStd2 V-363134	1	CAL	19:27	5							V-363134(Cal Std-2 WARNING)
CalStd3 V-363135	1	CAL	19:32	6							V-363135(Cal Std-3 WARNING)
CalStd4 V-363136	1	CAL	19:36	7							V-363136(Cal Std-4 WARNING)
CalStd5 V-363137	1	CAL	19:41	8							V-363137(Cal Std-5 WARNING)
ICV V-363138	1	ICV	19:45	9							V-363138(ICV WARNING)
LLICV V-363143	1	LLICV	19:49	10	MET-TAL6020S	SOIL	SOIL	SW846	96664		V-363143(LL-ICV/CCV SOIL WARNING)
ICB V-363139	1	ICB	19:54	11							V-363139(ICB/CCB WARNING)
ICSA V-363140	1	ICSA	19:58	12							V-363140(ICSA WARNING)
RINSE	1	NA	20:03	13	MET-2-6020	SOIL	SOIL	SW846	96664		0
LRS V-363141	1	LRS	20:07	14	MET-TAL6020S	SOIL	SOIL	SW846	96664	Ag fail.	V-363141(LRS WARNING)
RINSE	1	NA	20:11	15	MET-2-6020	SOIL	SOIL	SW846	96664		0
RINSE	1	NA	20:16	16	MET-2-6020	SOIL	SOIL	SW846	96664		0
RINSE	1	NA	20:20	17	MET-2-6020	SOIL	SOIL	SW846	96664		0
CCV V-363142	1	CCV	20:25	18						Tl fail.	V-363142(CCV WARNING)
CCB V-363139	1	CCB	20:29	19							V-363139(ICB/CCB WARNING)
MB 96664	1	MB	20:34	20	MET-2-6020	SOIL	SOIL	SW846	96664		0
LCS 96664	1	LCS	20:38	21	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
LCS MR 96664	1	LCS	20:42	22	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27764-001	1	SMP	20:47	23	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27764-001	1	MR	20:51	24	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27764-001	5	SD	20:55	25	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27764-001	1	MS	21:00	26	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27764-001	1	MSD	21:04	27	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27764-001	1	PS	21:08	28	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
RINSE	1	NA	21:12	29	MET-2-6020	SOIL	SOIL	SW846	96664		0
CCV V-363142	1	CCV	21:17	30							V-363142(CCV WARNING)
CCB V-363139	1	CCB	21:21	31							V-363139(ICB/CCB WARNING)
AD27765-014	1	SMP	21:25	32	MET-TAL6020S	SOIL	SOIL	SW846	96664	Rerun V (LR).	0
AD27758-003	1	SMP	21:30	33	MET-5-6020	SOIL	SOIL	SW846	96664		0
AD27760-003	1	SMP	21:34	34	MET-5-6020	SOIL	SOIL	SW846	96664		0
AD27760-005	1	SMP	21:39	35	MET-5-6020	SOIL	SOIL	SW846	96664		0
AD27766-001	1	SMP	21:43	36	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27774-001	1	SMP	21:47	37	MET-RCRA-MS	SOIL	SOIL	SW846	96664		0
AD27774-002	1	SMP	21:52	38	MET-RCRA-MS	SOIL	SOIL	SW846	96664		0
AD27774-003	1	SMP	21:56	39	MET-RCRA-MS	SOIL	SOIL	SW846	96664		0
AD27749-001	1	SMP	22:00	40	MET-2-6020	SOIL	SOIL	SW846	96664		0
RINSE	1	NA	22:05	41	MET-2-6020	SOIL	SOIL	SW846	96664		0
CCV V-363142	1	CCV	22:09	42							V-363142(CCV WARNING)
CCB V-363139	1	CCB	22:14	43							V-363139(ICB/CCB WARNING)
AD27749-002	1	SMP	22:18	44	MET-2-6020	SOIL	SOIL	SW846	96664		0
AD27749-003	1	SMP	22:22	45	MET-2-6020	SOIL	SOIL	SW846	96664		0
AD27749-004	1	SMP	22:27	46	MET-2-6020	SOIL	SOIL	SW846	96664		0
AD27749-005	1	SMP	22:31	47	MET-2-6020	SOIL	SOIL	SW846	96664		0
AD27786-004	1	SMP	22:36	48	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27786-006	1	SMP	22:40	49	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27786-008	1	SMP	22:44	50	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
AD27787-001	1	SMP	22:49	51	MET-TAL6020S	SOIL	SOIL	SW846	96664		0
RINSE	1	NA	22:53	52	MET-2-6020	SOIL	SOIL	SW846	96664		0
CCV V-363142	1	CCV	22:58	53							V-363142(CCV WARNING)
CCB V-363139	1	CCB	23:02	54							V-363139(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 12/13/2021 10:08:39 AM

Run ok. Report Ag, As, Be, Cd, K, Na, Pb, Sb, Se, V. LRS fail for Ag. Ag LR = 100ppb.
Rerun Tl. (CCV fail). Rerun V for 27765-014 (over LR). PC.

12/13/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 1x 12/9/21

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S120921BN Sample ID: CalBlk V-363132 Sample Date 12/09/21 Sample Time: 19:19

IS ID:	Area	Area Limit		
Ho-1	3242453.50	2269717.45	-	4215189.55
In-1	2984512.07	2089158.449	-	3879865.691
Sc-1	1968635.72	1378045.004	-	2559226.436
Tb-1	3452189.32	2416532.524	-	4487846.116

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363132	3	3242453.	2984512.	1968635.	3452189.				
SMP	RINSE	1	3219720.	2950948.	1926646.	3390559.				
SMP	RINSE	2	3211761.	2962456.	1953570.	3397696.				
CAL	CalStd1 V-36313	4	3307049.	3054670.	2013659.	3508096.				
CAL	CalStd2 V-36313	5	3355317.	3087873.	2011206.	3575581.				
CAL	CalStd3 V-36313	6	3353446.	3068957.	2031408.	3601438.				
CAL	CalStd4 V-36313	7	3411869.	3068315.	2041105.	3611729.				
CAL	CalStd5 V-36313	8	3434106.	3070917.	2032534.	3634298.				
ICV	ICV V-363138	9	3442387.	3093979.	2010388.	3677687.				
LLICV	LLICV V-363143	10	3442129.	3110417.	2012814.	3651414.				
ICB	ICB V-363139	11	3442754.	3098275.	2013616.	3650935.				
ICSA	ICSA V-363140	12	3375038.	2882148.	1968942.	3583249.				
SMP	RINSE	13	3485154.	3192016.	2065466.	3670561.				
LRS	LRS V-363141	14	3408109.	2964147.	1990957.	3611100.				
SMP	RINSE	15	3436712.	3099858.	1993344.	3635708.				
SMP	RINSE	16	3353926.	3054013.	1952416.	3557074.				
SMP	RINSE	17	3354110.	3035040.	1952704.	3554344.				
CCV	CCV V-363142	18	3432392.	3036360.	1997544.	3625999.				
CCB	CCB V-363139	19	3410199.	3042216.	1970952.	3611963.				
MB	MB 96664	20	3475027.	3072598.	1995086.	3679896.				
LCS	LCS 96664	21	3547683.	3125444.	2133072.	3753871.				
MR	LCS MR 96664	22	3538682.	3160738.	2166257.	3776915.				
SMP	AD27764-001	23	3594075.	3022743.	2871677. *	3822102.				
MR	AD27764-001	24	3594214.	3003929.	2821681. *	3836780.				
SD	AD27764-001	25	3453235.	3000183.	2139058.	3643836.				
MS	AD27764-001	26	3510728.	2993103.	2769238. *	3740890.				
MSD	AD27764-001	27	3554447.	3024048.	2859367. *	3765086.				
PS	AD27764-001	28	3564728.	2972305.	2819539. *	3772790.				
SMP	RINSE	29	3378925.	3022742.	1976778.	3564170.				
CCV	CCV V-363142	30	3345850.	2982993.	1955927.	3528634.				
CCB	CCB V-363139	31	3341923.	2995306.	1954811.	3541643.				
SMP	AD27765-014	32	3656255.	2896025.	4029307. *	3824939.				
SMP	AD27758-003	33	3464679.	2975846.	2279546.	3650945.				
SMP	AD27760-003	34	3551209.	2951614.	2606084. *	3703744.				
SMP	AD27760-005	35	3526571.	2943350.	2617641. *	3712710.				
SMP	AD27766-001	36	3659359.	2971931.	2934256. *	3937050.				
SMP	AD27774-001	37	3500805.	2965825.	2833690. *	3687535.				
SMP	AD27774-002	38	3642794.	2943261.	3106786. *	3836359.				
SMP	AD27774-003	39	3499882.	2957384.	2812036. *	3683590.				
SMP	AD27749-001	40	3662684.	2945461.	2405640.	3902381.				
SMP	RINSE	41	3302315.	2959490.	1908511.	3504150.				
CCV	CCV V-363142	42	3331134.	2902328.	1900563.	3509214.				
CCB	CCB V-363139	43	3303848.	2925643.	1886385.	3499350.				
SMP	AD27749-002	44	3550078.	2917040.	2362683.	3782480.				
SMP	AD27749-003	45	3606912.	2877397.	2374966.	3776434.				
SMP	AD27749-004	46	3492881.	2885134.	2485562.	3705158.				
SMP	AD27749-005	47	3553110.	2902816.	2473909.	3763473.				
SMP	AD27786-004	48	3417581.	2905847.	2372758.	3623499.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AD27786-006	49	3464654.	2945078.	2339841.	3641421.
SMP	AD27786-008	50	3461518.	2941337.	2388109.	3685580.
SMP	AD27787-001	51	3513080.	2949356.	2384844.	3715306.
SMP	RINSE	52	3310078.	2972601.	1912756.	3495225.
CCV	CCV V-363142	53	3331804.	2954531.	1948028.	3545752.
CCB	CCB V-363139	54	3367771.	2990720.	1945352.	3529155.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S120921BN Sample ID: CalBlk V-363132 Sample Date 12/09/21 Sample Time: 19:19

IS ID:	Area	Area Limit		
Ho-2	2237824.60	1566477.22	-	2909171.98
In-2	819091.73	573364.211	-	1064819.249
Sc-2	95195.27	66636.689	-	123753.851
Tb-2	2276480.23	1593536.161	-	2959424.299

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363132	3	2237824.	819091.7	95195.27	2276480.				
SMP	RINSE	1	2231020.	816789.7	95038.40	2309445.				
SMP	RINSE	2	2217559.	818836.4	94434.52	2280198.				
CAL	CalStd1 V-36313	4	2242280.	818528.3	96305.17	2284350.				
CAL	CalStd2 V-36313	5	2259304.	828599.1	96467.10	2311464.				
CAL	CalStd3 V-36313	6	2246188.	831087.6	97308.28	2301709.				
CAL	CalStd4 V-36313	7	2261070.	817597.0	95114.72	2282193.				
CAL	CalStd5 V-36313	8	2250102.	806699.9	94477.29	2297476.				
ICV	ICV V-363138	9	2246220.	808155.0	94692.79	2283534.				
LLICV	LLICV V-363143	10	2251843.	809103.8	93682.49	2294462.				
ICB	ICB V-363139	11	2221371.	802736.0	93329.59	2265625.				
ICSA	ICSA V-363140	12	2222195.	742973.0	92814.98	2237096.				
SMP	RINSE	13	2289763.	828197.4	95310.48	2331424.				
LRS	LRS V-363141	14	2234921.	775728.8	93241.17	2285202.				
SMP	RINSE	15	2259703.	818212.2	94298.78	2317011.				
SMP	RINSE	16	2254560.	814110.1	93018.14	2286997.				
SMP	RINSE	17	2230056.	814618.8	92610.57	2286690.				
CCV	CCV V-363142	18	2249855.	801406.4	93491.28	2287086.				
CCB	CCB V-363139	19	2231918.	794148.6	90592.20	2257207.				
MB	MB 96664	20	2257193.	789937.6	91731.85	2290553.				
LCS	LCS 96664	21	2302870.	807026.3	98293.20	2334650.				
MR	LCS MR 96664	22	2270958.	814540.5	98927.33	2319005.				
SMP	AD27764-001	23	2325159.	785071.0	138982.9 *	2389284.				
MR	AD27764-001	24	2339988.	780165.0	136199.9 *	2399848.				
SD	AD27764-001	25	2268503.	797627.5	100300.2	2293199.				
MS	AD27764-001	26	2277693.	773107.8	135756.1 *	2333054.				
MSD	AD27764-001	27	2300695.	779684.1	136835.5 *	2356147.				
PS	AD27764-001	28	2311635.	771720.8	138045.8 *	2361097.				
SMP	RINSE	29	2214061.	801057.7	92367.82	2254312.				
CCV	CCV V-363142	30	2207332.	782773.5	91487.33	2230234.				
CCB	CCB V-363139	31	2181478.	767078.4	89435.38	2217262.				
SMP	AD27765-014	32	2391008.	732673.7	202427.5 *	2405026.				
SMP	AD27758-003	33	2242567.	767096.2	107197.0	2268832.				
SMP	AD27760-003	34	2304751.	758866.7	124272.6 *	2327454.				
SMP	AD27760-005	35	2297617.	758424.6	124168.2 *	2315477.				
SMP	AD27766-001	36	2355902.	757346.0	139578.2 *	2433910.				
SMP	AD27774-001	37	2252879.	763808.8	135407.1 *	2284402.				
SMP	AD27774-002	38	2366945.	744717.2	150250.0 *	2390001.				
SMP	AD27774-003	39	2250367.	744595.2	133606.1 *	2275710.				
SMP	AD27749-001	40	2360344.	751902.2	111418.6	2412525.				
SMP	RINSE	41	2159601.	773687.4	87316.54	2195532.				
CCV	CCV V-363142	42	2176104.	769183.3	89618.49	2230097.				
CCB	CCB V-363139	43	2155209.	756677.4	86919.38	2184832.				
SMP	AD27749-002	44	2313176.	749965.0	110613.8	2338239.				
SMP	AD27749-003	45	2332578.	743211.4	110527.2	2367613.				
SMP	AD27749-004	46	2276534.	738778.4	117556.9	2308113.				
SMP	AD27749-005	47	2302590.	749040.4	114706.9	2346170.				
SMP	AD27786-004	48	2213547.	749165.3	110088.4	2256481.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AD27786-006	49	2242625.	752715.1	108717.9	2265163.
SMP	AD27786-008	50	2223216.	750922.8	111144.8	2264406.
SMP	AD27787-001	51	2265790.	750497.5	113359.7	2293412.
SMP	RINSE	52	2161201.	773853.0	87783.09	2216006.
CCV	CCV V-363142	53	2180426.	765322.6	88566.76	2202022.
CCB	CCB V-363139	54	2165608.	759670.6	87747.54	2196316.

* Indicates Internal Standard Area outside of limits

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1120805**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD27774-001	SB-009SS	Soil/Terracore	1	88	Percent			12/09/21	12/08/21	12/07/21
AD27774-002	SB-010SS	Soil/Terracore	1	86	Percent			12/09/21	12/08/21	12/07/21
AD27774-003	SB-011SS	Soil/Terracore	1	84	Percent			12/09/21	12/08/21	12/07/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12620

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD27780-002	82	81.81818	Percent	1.27	10.18	8.55	12/09/21	BEENA	2.2	5
Sample	AD27792-007	92	92.43884	Percent	1.28	14.77	13.75	12/09/21	BEENA		
Sample	AD27250-012	88	87.84355	Percent	1.28	10.74	9.60	12/09/21	BEENA		
Sample	AD27250-013	88	87.87879	Percent	1.30	10.54	9.42	12/09/21	BEENA		
Sample	AD27770-001	88	88.22674	Percent	1.30	8.18	7.37	12/09/21	BEENA		
Sample	AD27774-001	88	88.22844	Percent	1.28	9.86	8.85	12/09/21	BEENA		
Sample	AD27774-002	86	85.52632	Percent	1.28	6.60	5.84	12/09/21	BEENA		
Sample	AD27774-003	84	83.96811	Percent	1.29	12.58	10.77	12/09/21	BEENA		
Sample	AD27778-001	90	89.93711	Percent	1.27	9.22	8.42	12/09/21	BEENA		
Sample	AD27778-002	90	89.66203	Percent	1.27	6.30	5.78	12/09/21	BEENA		
Sample	AD27780-001	85	84.95212	Percent	1.29	8.60	7.50	12/09/21	BEENA		
Sample	AD27780-002	84	83.61905	Percent	1.30	11.80	10.08	12/09/21	BEENA		
Sample	AD27781-001	81	81.09589	Percent	1.29	8.59	7.21	12/09/21	BEENA		
Sample	AD27781-002	81	80.85420	Percent	1.28	8.07	6.77	12/09/21	BEENA		
Sample	AD27785-001	85	84.50313	Percent	1.30	15.69	13.46	12/09/21	BEENA		
Sample	AD27785-002	89	88.59504	Percent	1.29	13.39	12.02	12/09/21	BEENA		
Sample	AD27796-001	89	88.94646	Percent	1.29	12.87	11.59	12/09/21	BEENA		
Sample	AD27796-002	87	87.35225	Percent	1.30	9.76	8.69	12/09/21	BEENA		
Sample	AD27796-003	82	82.38141	Percent	1.28	11.61	9.79	12/09/21	BEENA		
Sample	AD27796-004	91	90.87452	Percent	1.29	14.44	13.24	12/09/21	BEENA		
Sample	AD27796-006	93	93.00184	Percent	1.30	12.16	11.39	12/09/21	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 12/9/2021

Report Date: 1/26/2022

Deliverables: MDE-R

Lab ID: AD27810

Lab Project No: 1120911

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1120911

Sample Summary

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project #: 1120911

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD27810-001	SB-012SS	Soil/Terracore	12/8/2021	12/9/2021
AD27810-002	SB-013SS	Soil/Terracore	12/8/2021	12/9/2021

HC Case Narrative

Client: Intertek-PSI **HC Project:** 1120911
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 98234 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98234 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 95954 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 95954 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

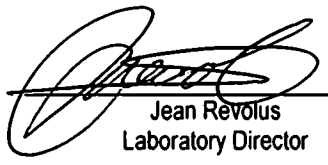
Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or



Jean Revolus
Laboratory Director

1/27/2022
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1120911

Project: CSA WMATA 0444100

Lab#: AD27810-001 **Sample ID: SB-012SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.8	11	EPA 6010D
Lead	mg/kg	5.8	26	EPA 6010D
Arsenic	mg/kg	0.23	7.7	EPA 6020B
Acenaphthene	mg/kg	0.039	0.039	EPA 8270E
Anthracene	mg/kg	0.039	0.095	EPA 8270E
Benzo[a]anthracene	mg/kg	0.039	0.18	EPA 8270E
Benzo[a]pyrene	mg/kg	0.039	0.16	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.039	0.22	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.039	0.11	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.039	0.063	EPA 8270E
Chrysene	mg/kg	0.039	0.18	EPA 8270E
Dibenzofuran	mg/kg	0.0098	0.035	EPA 8270E
Fluoranthene	mg/kg	0.039	0.40	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.039	0.094	EPA 8270E
Phenanthrene	mg/kg	0.039	0.38	EPA 8270E
Pyrene	mg/kg	0.039	0.36	EPA 8270E

Lab#: AD27810-002 **Sample ID: SB-013SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	6.0	12	EPA 6010D
Lead	mg/kg	6.0	28	EPA 6010D
Arsenic	mg/kg	0.24	4.3	EPA 6020B
Benzo[a]anthracene	mg/kg	0.040	0.12	EPA 8270E
Benzo[a]pyrene	mg/kg	0.040	0.14	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.040	0.20	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.040	0.11	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.040	0.058	EPA 8270E
Chrysene	mg/kg	0.040	0.13	EPA 8270E
Fluoranthene	mg/kg	0.040	0.17	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.040	0.099	EPA 8270E
Phenanthrene	mg/kg	0.040	0.071	EPA 8270E
Pyrene	mg/kg	0.040	0.18	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI
HC Project #: 1120911
Project: CSA WMATA 0444100

Sample ID: SB-012SS
Lab#: AD27810-001
Matrix: Soil/Terracore
Collection Date: 12/8/2021
Receipt Date: 12/9/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	70	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	88.7	mg/kg	26	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.8	11
Lead	1	mg/kg	5.8	26

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.23	7.7
Cadmium	1	mg/kg	0.47	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.039	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.039	ND
1,2-Diphenylhydrazine	1	mg/kg	0.039	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.039	ND
2,4,5-Trichlorophenol	1	mg/kg	0.039	ND
2,4,6-Trichlorophenol	1	mg/kg	0.039	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.039	ND
2,6-Dinitrotoluene	1	mg/kg	0.039	ND
2-Chloronaphthalene	1	mg/kg	0.039	ND
2-Chlorophenol	1	mg/kg	0.039	ND
2-Methylnaphthalene	1	mg/kg	0.039	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.039	ND
2-Nitrophenol	1	mg/kg	0.039	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.039	ND
3-Nitroaniline	1	mg/kg	0.039	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.039	ND
4-Chloro-3-methylphenol	1	mg/kg	0.039	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.039	ND

Sample ID: SB-012SS	**Collection Date:** 12/8/2021
Lab#: AD27810-001	**Receipt Date:** 12/9/2021
Matrix: Soil/Terracore	

4-Nitroaniline	1	mg/kg	0.039	ND
4-Nitrophenol	1	mg/kg	0.039	ND
Acenaphthene	**1**	**mg/kg**	**0.039**	**0.039**
Acenaphthylene	1	mg/kg	0.039	ND
Acetophenone	1	mg/kg	0.039	ND
Anthracene	**1**	**mg/kg**	**0.039**	**0.095**
Atrazine	1	mg/kg	0.039	ND
Benzaldehyde	1	mg/kg	0.42	ND
Benzidine	1	mg/kg	0.068	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.039**	**0.18**
Benzo[a]pyrene	**1**	**mg/kg**	**0.039**	**0.16**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.039**	**0.22**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.039**	**0.11**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.039**	**0.063**
Benzyl alcohol	1	mg/kg	0.039	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.039	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0097	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.039	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.039	ND
Butylbenzylphthalate	1	mg/kg	0.039	ND
Caprolactam	1	mg/kg	0.039	ND
Carbazole	1	mg/kg	0.039	ND
Chrysene	**1**	**mg/kg**	**0.039**	**0.18**
Dibenzo[a,h]anthracene	1	mg/kg	0.039	ND
Dibenzofuran	**1**	**mg/kg**	**0.0098**	**0.035**
Diethylphthalate	1	mg/kg	0.039	ND
Dimethylphthalate	1	mg/kg	0.039	ND
Di-n-butylphthalate	1	mg/kg	0.044	ND
Di-n-octylphthalate	1	mg/kg	0.039	ND
Fluoranthene	**1**	**mg/kg**	**0.039**	**0.40**
Fluorene	1	mg/kg	0.039	ND
Hexachlorobenzene	1	mg/kg	0.039	ND
Hexachlorobutadiene	1	mg/kg	0.039	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.039	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.039**	**0.094**
Isophorone	1	mg/kg	0.039	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.039	ND
N-Nitrosodimethylamine	1	mg/kg	0.048	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.039**	**0.38**
Phenol	1	mg/kg	0.039	ND
Pyrene	**1**	**mg/kg**	**0.039**	**0.36**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	70	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.732	mg/kg	0.0017	ND
1,1,2,2-Tetrachloroethane	0.732	mg/kg	0.0017	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.732	mg/kg	0.0017	ND
1,1,2-Trichloroethane	0.732	mg/kg	0.0017	ND

Sample ID:	**SB-012SS**
Lab#:	**AD27810-001**
Matrix:	**Soil/Terracore**
Collection Date:	**12/8/2021**
Receipt Date:	**12/9/2021**

1,1-Dichloroethane	0.732	mg/kg	0.0017	ND
1,1-Dichloroethene	0.732	mg/kg	0.0017	ND
1,2,3-Trichlorobenzene	0.732	mg/kg	0.0017	ND
1,2,4-Trichlorobenzene	0.732	mg/kg	0.0017	ND
1,2-Dibromo-3-chloropropane	0.732	mg/kg	0.0017	ND
1,2-Dibromoethane	0.732	mg/kg	0.00043	ND
1,2-Dichlorobenzene	0.732	mg/kg	0.0017	ND
1,2-Dichloroethane	0.732	mg/kg	0.0017	ND
1,2-Dichloropropane	0.732	mg/kg	0.0017	ND
1,3-Dichlorobenzene	0.732	mg/kg	0.0017	ND
1,4-Dichlorobenzene	0.732	mg/kg	0.0017	ND
1,4-Dioxane	0.732	mg/kg	0.085	ND
2-Butanone	0.732	mg/kg	0.0017	ND
2-Hexanone	0.732	mg/kg	0.0017	ND
4-Methyl-2-pentanone	0.732	mg/kg	0.0017	ND
Acetone	0.732	mg/kg	0.0085	ND
Acrolein	0.732	mg/kg	0.0085	ND
Acrylonitrile	0.732	mg/kg	0.0017	ND
Benzene	0.732	mg/kg	0.00085	ND
Bromochloromethane	0.732	mg/kg	0.0017	ND
Bromodichloromethane	0.732	mg/kg	0.0017	ND
Bromoform	0.732	mg/kg	0.0017	ND
Bromomethane	0.732	mg/kg	0.0017	ND
Carbon disulfide	0.732	mg/kg	0.0029	ND
Carbon tetrachloride	0.732	mg/kg	0.0017	ND
Chlorobenzene	0.732	mg/kg	0.0017	ND
Chloroethane	0.732	mg/kg	0.0017	ND
Chloroform	0.732	mg/kg	0.0017	ND
Chloromethane	0.732	mg/kg	0.0017	ND
cis-1,2-Dichloroethene	0.732	mg/kg	0.0017	ND
cis-1,3-Dichloropropene	0.732	mg/kg	0.0017	ND
Cyclohexane	0.732	mg/kg	0.0017	ND
Dibromochloromethane	0.732	mg/kg	0.0017	ND
Dichlorodifluoromethane	0.732	mg/kg	0.0017	ND
Ethylbenzene	0.732	mg/kg	0.00085	ND
Isopropylbenzene	0.732	mg/kg	0.00085	ND
m&p-Xylenes	0.732	mg/kg	0.0010	ND
Methyl Acetate	0.732	mg/kg	0.0017	ND
Methylcyclohexane	0.732	mg/kg	0.0017	ND
Methylene chloride	0.732	mg/kg	0.0017	ND
Methyl-t-butyl ether	0.732	mg/kg	0.00085	ND
o-Xylene	0.732	mg/kg	0.00085	ND
Styrene	0.732	mg/kg	0.0017	ND
t-Butyl Alcohol	0.732	mg/kg	0.0085	ND
Tetrachloroethene	0.732	mg/kg	0.0017	ND
Toluene	0.732	mg/kg	0.00085	ND
trans-1,2-Dichloroethene	0.732	mg/kg	0.0017	ND
trans-1,3-Dichloropropene	0.732	mg/kg	0.0017	ND
Trichloroethene	0.732	mg/kg	0.0017	ND
Trichlorofluoromethane	0.732	mg/kg	0.0017	ND
Vinyl chloride	0.732	mg/kg	0.0017	ND
Xylenes (Total)	0.732	mg/kg	0.00085	ND

Sample ID: SB-013SS
Lab#: AD27810-002
Matrix: Soil/Terracore

Collection Date: 12/8/2021
Receipt Date: 12/9/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	72	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	95.1	mg/kg	29	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	6.0	12
Lead	1	mg/kg	6.0	28

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.24	4.3
Cadmium	1	mg/kg	0.48	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.040	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.040	ND
1,2-Diphenylhydrazine	1	mg/kg	0.040	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.040	ND
2,4,5-Trichlorophenol	1	mg/kg	0.040	ND
2,4,6-Trichlorophenol	1	mg/kg	0.040	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.020	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.040	ND
2,6-Dinitrotoluene	1	mg/kg	0.040	ND
2-Chloronaphthalene	1	mg/kg	0.040	ND
2-Chlorophenol	1	mg/kg	0.040	ND
2-Methylnaphthalene	1	mg/kg	0.040	ND
2-Methylphenol	1	mg/kg	0.012	ND
2-Nitroaniline	1	mg/kg	0.040	ND
2-Nitrophenol	1	mg/kg	0.040	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.040	ND
3-Nitroaniline	1	mg/kg	0.040	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.040	ND
4-Chloro-3-methylphenol	1	mg/kg	0.040	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.040	ND
4-Nitroaniline	1	mg/kg	0.040	ND
4-Nitrophenol	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Acetophenone	1	mg/kg	0.040	ND
Anthracene	1	mg/kg	0.040	ND
Atrazine	1	mg/kg	0.040	ND

Sample ID:	**SB-013SS**	**Collection Date:**	**12/8/2021**
Lab#:	**AD27810-002**	**Receipt Date:**	**12/9/2021**
Matrix:	**Soil/Terracore**		

Benzaldehyde	1	mg/kg	0.44	ND
Benzidine	1	mg/kg	0.071	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.040**	**0.12**
Benzo[a]pyrene	**1**	**mg/kg**	**0.040**	**0.14**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.040**	**0.20**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.040**	**0.11**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.040**	**0.058**
Benzyl alcohol	1	mg/kg	0.040	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.040	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.010	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.040	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.040	ND
Butylbenzylphthalate	1	mg/kg	0.040	ND
Caprolactam	1	mg/kg	0.040	ND
Carbazole	1	mg/kg	0.040	ND
Chrysene	**1**	**mg/kg**	**0.040**	**0.13**
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Dibenzofuran	1	mg/kg	0.010	ND
Diethylphthalate	1	mg/kg	0.040	ND
Dimethylphthalate	1	mg/kg	0.040	ND
Di-n-butylphthalate	1	mg/kg	0.046	ND
Di-n-octylphthalate	1	mg/kg	0.040	ND
Fluoranthene	**1**	**mg/kg**	**0.040**	**0.17**
Fluorene	1	mg/kg	0.040	ND
Hexachlorobenzene	1	mg/kg	0.040	ND
Hexachlorobutadiene	1	mg/kg	0.040	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.040**	**0.099**
Isophorone	1	mg/kg	0.040	ND
Naphthalene	1	mg/kg	0.012	ND
Nitrobenzene	1	mg/kg	0.040	ND
N-Nitrosodimethylamine	1	mg/kg	0.049	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.14	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	**1**	**mg/kg**	**0.040**	**0.071**
Phenol	1	mg/kg	0.040	ND
Pyrene	**1**	**mg/kg**	**0.040**	**0.18**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	72	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.711	mg/kg	0.0017	ND
1,1,2,2-Tetrachloroethane	0.711	mg/kg	0.0017	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.711	mg/kg	0.0017	ND
1,1,2-Trichloroethane	0.711	mg/kg	0.0017	ND
1,1-Dichloroethane	0.711	mg/kg	0.0017	ND
1,1-Dichloroethene	0.711	mg/kg	0.0017	ND
1,2,3-Trichlorobenzene	0.711	mg/kg	0.0017	ND
1,2,4-Trichlorobenzene	0.711	mg/kg	0.0017	ND
1,2-Dibromo-3-chloropropane	0.711	mg/kg	0.0017	ND
1,2-Dibromoethane	0.711	mg/kg	0.00043	ND
1,2-Dichlorobenzene	0.711	mg/kg	0.0017	ND

Sample ID: SB-013SS				Collection Date: 12/8/2021	
Lab#: AD27810-002				Receipt Date: 12/9/2021	
Matrix: Soil/Terracore					
1,2-Dichloroethane	0.711	mg/kg	0.0017	ND	
1,2-Dichloropropane	0.711	mg/kg	0.0017	ND	
1,3-Dichlorobenzene	0.711	mg/kg	0.0017	ND	
1,4-Dichlorobenzene	0.711	mg/kg	0.0017	ND	
1,4-Dioxane	0.711	mg/kg	0.086	ND	
2-Butanone	0.711	mg/kg	0.0017	ND	
2-Hexanone	0.711	mg/kg	0.0017	ND	
4-Methyl-2-pentanone	0.711	mg/kg	0.0017	ND	
Acetone	0.711	mg/kg	0.0086	ND	
Acrolein	0.711	mg/kg	0.0086	ND	
Acrylonitrile	0.711	mg/kg	0.0017	ND	
Benzene	0.711	mg/kg	0.00086	ND	
Bromochloromethane	0.711	mg/kg	0.0017	ND	
Bromodichloromethane	0.711	mg/kg	0.0017	ND	
Bromoform	0.711	mg/kg	0.0017	ND	
Bromomethane	0.711	mg/kg	0.0017	ND	
Carbon disulfide	0.711	mg/kg	0.0029	ND	
Carbon tetrachloride	0.711	mg/kg	0.0017	ND	
Chlorobenzene	0.711	mg/kg	0.0017	ND	
Chloroethane	0.711	mg/kg	0.0017	ND	
Chloroform	0.711	mg/kg	0.0017	ND	
Chloromethane	0.711	mg/kg	0.0017	ND	
cis-1,2-Dichloroethene	0.711	mg/kg	0.0017	ND	
cis-1,3-Dichloropropene	0.711	mg/kg	0.0017	ND	
Cyclohexane	0.711	mg/kg	0.0017	ND	
Dibromochloromethane	0.711	mg/kg	0.0017	ND	
Dichlorodifluoromethane	0.711	mg/kg	0.0017	ND	
Ethylbenzene	0.711	mg/kg	0.00086	ND	
Isopropylbenzene	0.711	mg/kg	0.00086	ND	
m&p-Xylenes	0.711	mg/kg	0.0010	ND	
Methyl Acetate	0.711	mg/kg	0.0017	ND	
Methylcyclohexane	0.711	mg/kg	0.0017	ND	
Methylene chloride	0.711	mg/kg	0.0017	ND	
Methyl-t-butyl ether	0.711	mg/kg	0.00086	ND	
o-Xylene	0.711	mg/kg	0.00086	ND	
Styrene	0.711	mg/kg	0.0017	ND	
t-Butyl Alcohol	0.711	mg/kg	0.0086	ND	
Tetrachloroethene	0.711	mg/kg	0.0017	ND	
Toluene	0.711	mg/kg	0.00086	ND	
trans-1,2-Dichloroethene	0.711	mg/kg	0.0017	ND	
trans-1,3-Dichloropropene	0.711	mg/kg	0.0017	ND	
Trichloroethene	0.711	mg/kg	0.0017	ND	
Trichlorofluoromethane	0.711	mg/kg	0.0017	ND	
Vinyl chloride	0.711	mg/kg	0.0017	ND	
Xylenes (Total)	0.711	mg/kg	0.00086	ND	

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 1120911

Project: CSA WMATA 0444100

Lab#: AD27810-001 **Sample ID: SB-012SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/10/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/17/21 12:23	marie	EPA 8015D	12/19/21 13:11	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/16/21 17:13	JM
RCRA Metals 6010D	3005&10/3050	12/16/21 12:45	ksaez	EPA 6010D	12/17/21 16:32	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/16/21 12:45	ksaez	EPA 6020B	12/16/21 22:12	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/21/21 10:55	AT/JJ	EPA 8270E	12/22/21 10:15	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/17/21 12:23	marie	EPA 8015D	12/19/21 13:11	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/15/21 19:32	SG

Lab#: AD27810-002 **Sample ID: SB-013SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/10/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/17/21 12:23	marie	EPA 8015D	12/19/21 13:41	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/16/21 18:19	JM
RCRA Metals 6010D	3005&10/3050	12/16/21 12:45	ksaez	EPA 6010D	12/17/21 16:36	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/16/21 12:45	ksaez	EPA 6020B	12/16/21 22:17	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/21/21 10:55	AT/JJ	EPA 8270E	12/22/21 10:40	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/17/21 12:23	marie	EPA 8015D	12/19/21 13:41	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/15/21 19:52	SG

Chain of Custody

1120911 0013

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
A Women-Owned, Disadvantaged, Small Business Enterprise
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1120911

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
(3 Business Days (Stand))	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlek-PSI
Address: 2930 Eskridge Rd
Fairfax VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andres.acosta@interlek.com
1d) Send Report to: rinzo.renthlei@interlek.com

Project Information

2a) Project: WMATA CSA 0414100
2b) Project Mgr:
2c) Project Location (City/State): Washington, DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # A027810

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH - DRO/GRO/GRO	4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
-001	SB-012 SS	S	12/8/21	1320		X	X	X	X	X	1	1						2	
-002	SB-013 SS	S	12/8/21	1520		X	X	X	X	X	1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	Shantel Rabey	~~12/9/21~~	~~13:31~~
FED EX	Shantel R	12/9/21	13:31

11) Sampler (print name): RINZO RENTHLEI Date: 12/8/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.5

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: INTERTEK-VA **HC Project #:** 1120911

Project: CSA WMATA 0444100

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csmith192.168.1.137
12/10/2021 12:34:28 PM

Per Andy Acosta, The 4 RCRA Metals required are As, Cd, Cr, Pb.

CONDITION UPON RECEIPT

Batch Number AD27810 Entered By: srobles
Date Entered 12/9/2021 1:34:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.5
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD27810-001	12/09/21 13:31	SROB	0	M	Received
AD27810-001	12/09/21 13:33	SROB	0	M	Login
AD27810-001	12/09/21 14:35	R12	1	A	NONE
AD27810-001	12/09/21 22:57	PA	1	A	mx
AD27810-001	12/09/21 22:57	R12	1	A	NONE
AD27810-001	12/10/21 08:41	BCT	1	A	SOLIDS
AD27810-001	12/10/21 10:28	R12	1	A	NONE
AD27810-001	12/16/21 10:42	KEVS	1	A	TDSI/HG
AD27810-001	12/16/21 12:11	R12	1	A	NONE
AD27810-001	12/17/21 12:23	R12	1	A	NONE
AD27810-001	12/17/21 12:23	MSL	1	A	TPH
AD27810-001	12/21/21 16:23	R12	1	A	NONE
AD27810-001	12/21/21 16:23	AT/JJ	1	A	BNA
AD27810-001	12/09/21 13:44	R31	2	A	NONE
AD27810-001	12/10/21 10:20	SG	2	A	VOA
AD27810-001	12/10/21 10:21	R31	2	A	NONE
AD27810-001	12/15/21 15:58	JM	2	A	gro
AD27810-001	12/15/21 15:58	R31	2	A	NONE
AD27810-001	12/16/21 11:02	JM	2	A	GRO
AD27810-001	12/16/21 11:03	R31	2	A	NONE
AD27810-001	12/09/21 13:44	F19	3	A	NONE
AD27810-001	12/09/21 13:44	F19	4	A	NONE
AD27810-002	12/09/21 13:31	SROB	0	M	Received
AD27810-002	12/09/21 13:33	SROB	0	M	Login
AD27810-002	12/09/21 14:35	R12	1	A	NONE
AD27810-002	12/09/21 22:57	R12	1	A	NONE
AD27810-002	12/09/21 22:57	PA	1	A	mx
AD27810-002	12/10/21 08:41	BCT	1	A	SOLIDS
AD27810-002	12/10/21 10:28	R12	1	A	NONE
AD27810-002	12/16/21 10:42	KEVS	1	A	TDSI/HG
AD27810-002	12/16/21 12:11	R12	1	A	NONE
AD27810-002	12/17/21 12:23	MSL	1	A	TPH
AD27810-002	12/17/21 12:23	R12	1	A	NONE
AD27810-002	12/21/21 16:23	AT/JJ	1	A	BNA
AD27810-002	12/21/21 16:23	R12	1	A	NONE
AD27810-002	12/09/21 13:44	R31	2	A	NONE
AD27810-002	12/10/21 10:20	SG	2	A	VOA
AD27810-002	12/10/21 10:21	R31	2	A	NONE
AD27810-002	12/15/21 15:58	R31	2	A	NONE
AD27810-002	12/15/21 15:58	JM	2	A	gro
AD27810-002	12/16/21 11:02	JM	2	A	GRO
AD27810-002	12/16/21 11:03	R31	2	A	NONE
AD27810-002	12/09/21 13:44	F19	3	A	NONE
AD27810-002	12/09/21 13:44	F19	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27810-001
Client Id: SB-012SS
Data File: 8M553170.D
Analysis Date: 12/15/21 19:32
Date Rec/Extracted: 12/09/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.83g
Final Vol: NA
Dilution: 0.732
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0017	U	56-23-5	Carbon Tetrachloride	0.0017	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0017	U	108-90-7	Chlorobenzene	0.0017	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0017	U	75-00-3	Chloroethane	0.0017	U
79-00-5	1,1,2-Trichloroethane	0.0017	U	67-66-3	Chloroform	0.0017	U
75-34-3	1,1-Dichloroethane	0.0017	U	74-87-3	Chloromethane	0.0017	U
75-35-4	1,1-Dichloroethene	0.0017	U	156-59-2	cis-1,2-Dichloroethene	0.0017	U
87-61-6	1,2,3-Trichlorobenzene	0.0017	U	10061-01-5	cis-1,3-Dichloropropene	0.0017	U
120-82-1	1,2,4-Trichlorobenzene	0.0017	U	110-82-7	Cyclohexane	0.0017	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0017	U	124-48-1	Dibromochloromethane	0.0017	U
106-93-4	1,2-Dibromoethane	0.00043	U	75-71-8	Dichlorodifluoromethane	0.0017	U
95-50-1	1,2-Dichlorobenzene	0.0017	U	100-41-4	Ethylbenzene	0.00085	U
107-06-2	1,2-Dichloroethane	0.0017	U	98-82-8	Isopropylbenzene	0.00085	U
78-87-5	1,2-Dichloropropane	0.0017	U	79601-23-1	m&p-Xylenes	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0017	U	79-20-9	Methyl Acetate	0.0017	U
106-46-7	1,4-Dichlorobenzene	0.0017	U	108-87-2	Methylcyclohexane	0.0017	U
123-91-1	1,4-Dioxane	0.085	U	75-09-2	Methylene Chloride	0.0017	U
78-93-3	2-Butanone	0.0017	U	1634-04-4	Methyl-t-butyl ether	0.00085	U
591-78-6	2-Hexanone	0.0017	U	95-47-6	o-Xylene	0.00085	U
108-10-1	4-Methyl-2-Pentanone	0.0017	U	100-42-5	Styrene	0.0017	U
67-64-1	Acetone	0.0085	U	75-65-0	t-Butyl Alcohol	0.0085	U
107-02-8	Acrolein	0.0085	U	127-18-4	Tetrachloroethene	0.0017	U
107-13-1	Acrylonitrile	0.0017	U	108-88-3	Toluene	0.00085	U
71-43-2	Benzene	0.00085	U	156-60-5	trans-1,2-Dichloroethene	0.0017	U
74-97-5	Bromochloromethane	0.0017	U	10061-02-6	trans-1,3-Dichloropropene	0.0017	U
75-27-4	Bromodichloromethane	0.0017	U	79-01-6	Trichloroethene	0.0017	U
75-25-2	Bromoform	0.0017	U	75-69-4	Trichlorofluoromethane	0.0017	U
74-83-9	Bromomethane	0.0017	U	75-01-4	Vinyl Chloride	0.0017	U
75-15-0	Carbon Disulfide	0.0029	U	1330-20-7	Xylenes (Total)	0.00085	U

Worksheet #: 622590

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

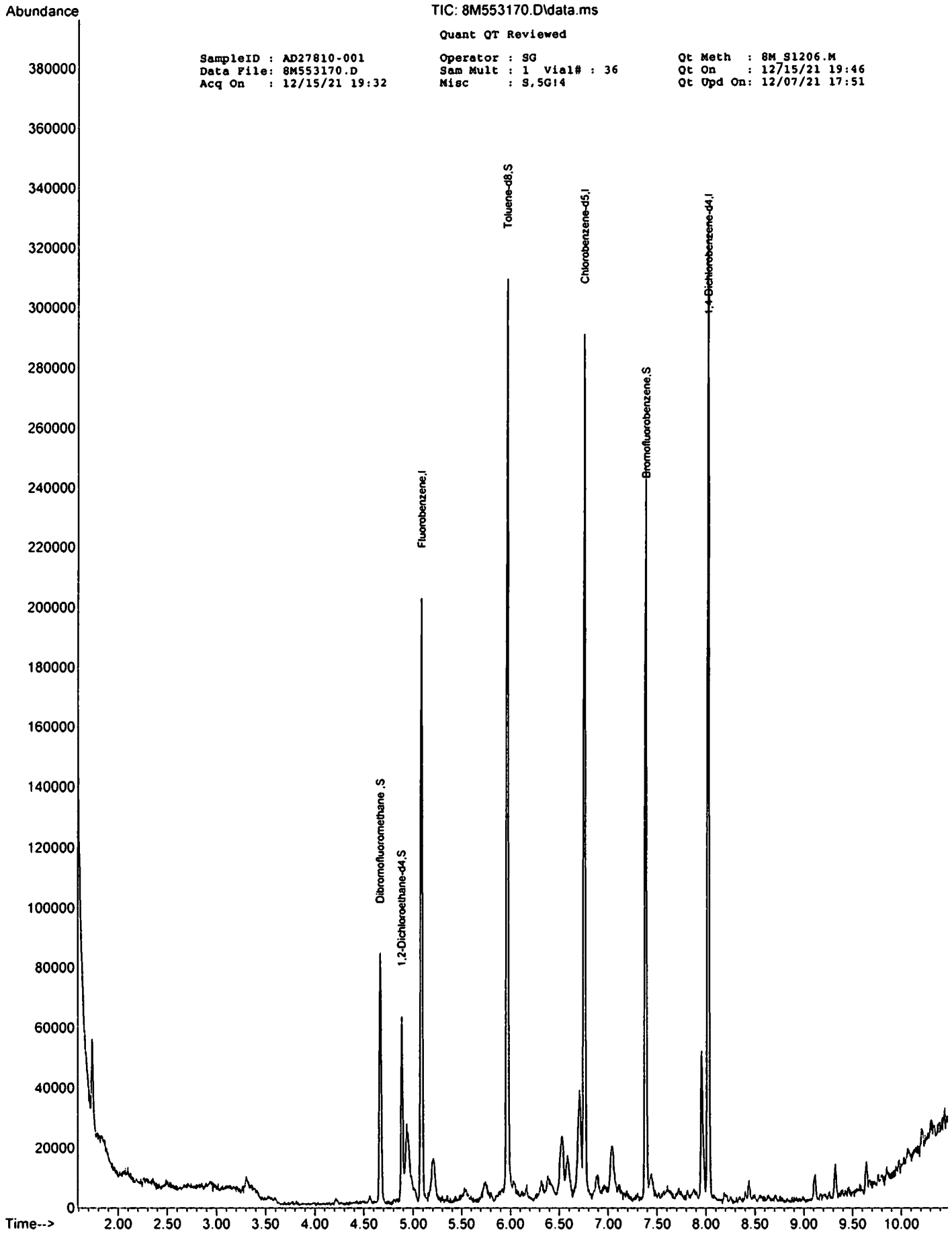
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD27810-001 Operator : SG Qt Meth : 8M_S1206.M
Data File: 8M553170.D Sam Mult : 1 Vial# : 36 Qt On : 12/15/21 19:46
Acq On : 12/15/21 19:32 Misc : S,5G!4 Qt Upd On: 12/07/21 17:51

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	128142	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	125210	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	67272	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.667	111	36002	29.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.97%			
39) 1,2-Dichloroethane-d4	4.886	67	14965	30.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.97%			
66) Toluene-d8	5.970	98	138379	26.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.90%			
76) Bromofluorobenzene	7.388	174	50534	31.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553170.D\data.ms
Quant QT Reviewed
SampleID : AD27810-001
Data File: 8M553170.D
Acq On : 12/15/21 19:32
Operator : SG
Sam Mult : 1 Vial# : 36
Misc : S,5G!4
Qt Meth : 8M_S1206.M
Qt On : 12/15/21 19:46
Qt Upd On: 12/07/21 17:51
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27810-002
Client Id: SB-013SS
Data File: 8M553171.D
Analysis Date: 12/15/21 19:52
Date Rec/Extracted: 12/09/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 7.03g
Final Vol: NA
Dilution: 0.711
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0017	U	56-23-5	Carbon Tetrachloride	0.0017	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0017	U	108-90-7	Chlorobenzene	0.0017	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0017	U	75-00-3	Chloroethane	0.0017	U
79-00-5	1,1,2-Trichloroethane	0.0017	U	67-66-3	Chloroform	0.0017	U
75-34-3	1,1-Dichloroethane	0.0017	U	74-87-3	Chloromethane	0.0017	U
75-35-4	1,1-Dichloroethene	0.0017	U	156-59-2	cis-1,2-Dichloroethene	0.0017	U
87-61-6	1,2,3-Trichlorobenzene	0.0017	U	10061-01-5	cis-1,3-Dichloropropene	0.0017	U
120-82-1	1,2,4-Trichlorobenzene	0.0017	U	110-82-7	Cyclohexane	0.0017	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0017	U	124-48-1	Dibromochloromethane	0.0017	U
106-93-4	1,2-Dibromoethane	0.00043	U	75-71-8	Dichlorodifluoromethane	0.0017	U
95-50-1	1,2-Dichlorobenzene	0.0017	U	100-41-4	Ethylbenzene	0.00086	U
107-06-2	1,2-Dichloroethane	0.0017	U	98-82-8	Isopropylbenzene	0.00086	U
78-87-5	1,2-Dichloropropane	0.0017	U	79601-23-1	m&p-Xylenes	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0017	U	79-20-9	Methyl Acetate	0.0017	U
106-46-7	1,4-Dichlorobenzene	0.0017	U	108-87-2	Methylcyclohexane	0.0017	U
123-91-1	1,4-Dioxane	0.086	U	75-09-2	Methylene Chloride	0.0017	U
78-93-3	2-Butanone	0.0017	U	1634-04-4	Methyl-t-butyl ether	0.00086	U
591-78-6	2-Hexanone	0.0017	U	95-47-6	o-Xylene	0.00086	U
108-10-1	4-Methyl-2-Pentanone	0.0017	U	100-42-5	Styrene	0.0017	U
67-64-1	Acetone	0.0086	U	75-65-0	t-Butyl Alcohol	0.0086	U
107-02-8	Acrolein	0.0086	U	127-18-4	Tetrachloroethene	0.0017	U
107-13-1	Acrylonitrile	0.0017	U	108-88-3	Toluene	0.00086	U
71-43-2	Benzene	0.00086	U	156-60-5	trans-1,2-Dichloroethene	0.0017	U
74-97-5	Bromochloromethane	0.0017	U	10061-02-6	trans-1,3-Dichloropropene	0.0017	U
75-27-4	Bromodichloromethane	0.0017	U	79-01-6	Trichloroethene	0.0017	U
75-25-2	Bromoform	0.0017	U	75-69-4	Trichlorofluoromethane	0.0017	U
74-83-9	Bromomethane	0.0017	U	75-01-4	Vinyl Chloride	0.0017	U
75-15-0	Carbon Disulfide	0.0029	U	1330-20-7	Xylenes (Total)	0.00086	U

Worksheet #: 622590

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

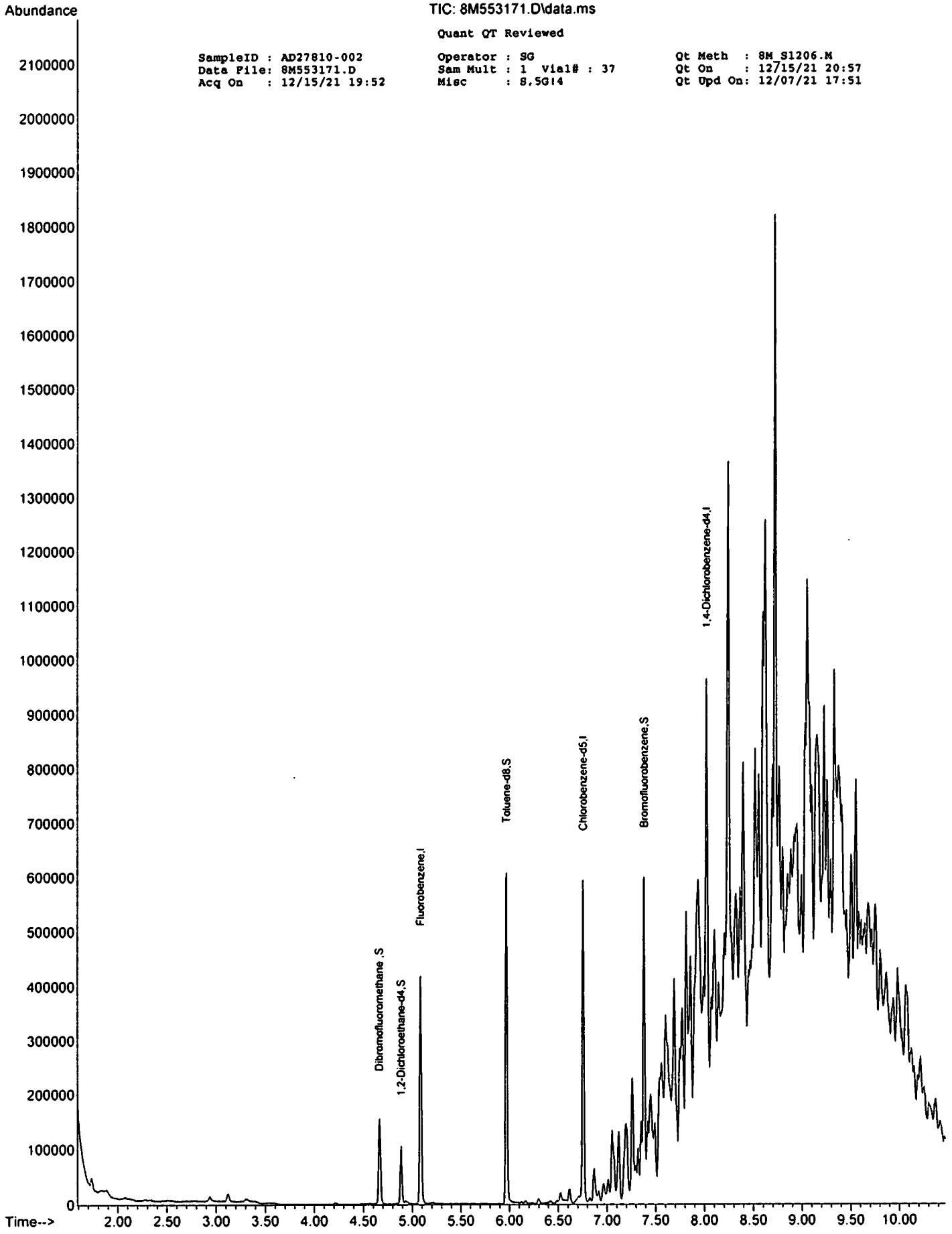
Quantitation Report (QT Reviewed)

SampleID : AD27810-002 Operator : SG Qt Meth : 8M_S1206.M
Data File: 8M553171.D Sam Mult : 1 Vial# : 37 Qt On : 12/15/21 20:57
Acq On : 12/15/21 19:52 Misc : S,5G!4 Qt Upd On: 12/07/21 17:51

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	258394	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	248706	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	149066	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	67447	27.02	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.07%			
39) 1,2-Dichloroethane-d4	4.886	67	24701	24.79	ug/l	0.00
Spiked Amount 30.000			Recovery = 82.63%			
66) Toluene-d8	5.969	98	280416	27.51	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.70%			
76) Bromofluorobenzene	7.384	174	99834	27.71	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.37%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553171.D\data.ms
Quant QT Reviewed
SampleID : AD27810-002
Data File: 8M553171.D
Acq On : 12/15/21 19:52
Operator : SG
Sam Mult : 1 Vial# : 37
Misc : S,5G!4
Qt Meth : 8M_S1206.M
Qt On : 12/15/21 20:57
Qt Upd On: 12/07/21 17:51
2100000
2000000
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M553149.D
Analysis Date: 12/15/21 12:28
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 622590

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

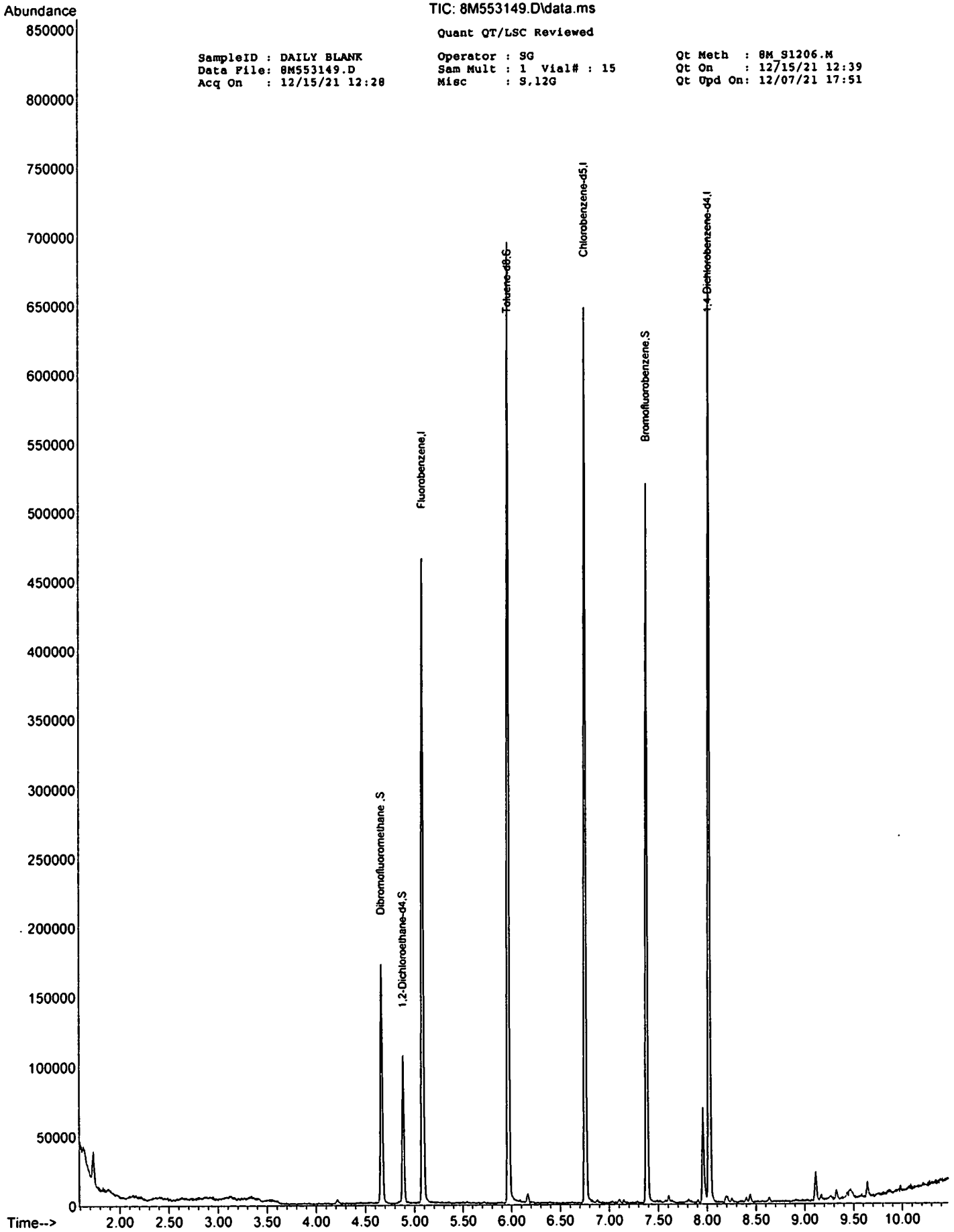
Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK Operator : SG Qt Meth : 8M_S1206.M
Data File: 8M553149.D Sam Mult : 1 Vial# : 15 Qt On : 12/15/21 12:39
Acq On : 12/15/21 12:28 Misc : S,12G Qt Upd On: 12/07/21 17:51

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	294932	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	278184	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	147050	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	73553	25.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.07%			
39) 1,2-Dichloroethane-d4	4.883	67	25801	22.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 75.63%			
66) Toluene-d8	5.970	98	321450	28.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.00%			
76) Bromofluorobenzene	7.388	174	108984	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.23%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553149.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 8M553149.D
Acq On : 12/15/21 12:28
Operator : SG
Sam Mult : 1 Vial# : 15
Misc : S,12G
Qt Meth : 8M_S1206.M
Qt On : 12/15/21 12:39
Qt Upd On: 12/07/21 17:51
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8M553149.D	DAILY BLANK	S	12/15/21 12:28	1		86	76	94	102		
8M553170.D	AD27810-001	S	12/15/21 19:32	1		97	101	90	104		
8M553171.D	AD27810-002	S	12/15/21 19:52	1		90	83	92	92		
8M553160.D	AD27849-014	S	12/15/21 16:10	1		88	75	94	104		
8M553163.D	MBS98234	S	12/15/21 17:10	1		87	82	93	101		
8M553164.D	AD27849-014(MS)	S	12/15/21 17:31	1		90	83	96	106		
8M553165.D	AD27849-014(MSD)	S	12/15/21 17:51	1		89	86	93	104		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553163.D	MBS98234	12/15/2021 5:10:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	29.826	0	50	60	20	130
Dichlorodifluoromethane	1	24.0016	0	50	48	20	130
Chloromethane	1	28.0481	0	50	56	20	130
Bromomethane	1	37.0184	0	50	74	20	130
Vinyl Chloride	1	33.9993	0	50	68	20	130
Chloroethane	1	35.1585	0	50	70	20	130
Trichlorofluoromethane	1	29.1342	0	50	58	20	130
Ethyl ether	1	32.3778	0	50	65	50	130
Furan	1	29.1924	0	50	58	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	34.1124	0	50	68	50	130
Methylene Chloride	1	38.9642	0	50	78	50	130
Acrolein	1	140.1889	0	200	70	20	130
Acrylonitrile	1	35.0462	0	50	70	20	130
Iodomethane	1	43.0852	0	50	86	50	130
Acetone	1	107.9142	0	200	54	20	130
Carbon Disulfide	1	35.2481	0	50	70	50	130
t-Butyl Alcohol	1	160.2695	0	200	80	20	130
n-Hexane	1	45.3931	0	50	91	50	130
Di-isopropyl-ether	1	20.9499	0	50	42*	50	130
1,1-Dichloroethene	1	25.6506	0	50	51	50	130
Methyl Acetate	1	29.0739	0	50	58	50	130
Methyl-t-butyl ether	1	41.9876	0	50	84	50	130
1,1-Dichloroethane	1	34.8265	0	50	70	50	130
trans-1,2-Dichloroethene	1	42.0262	0	50	84	50	130
Ethyl-t-butyl ether	1	39.1708	0	50	78	50	130
cis-1,2-Dichloroethene	1	40.4701	0	50	81	50	130
Bromochloromethane	1	36.5556	0	50	73	50	130
2,2-Dichloropropane	1	37.5901	0	50	75	50	130
Ethyl acetate	1	35.3278	0	50	71	50	130
1,4-Dioxane	1	2012.552	0	2500	81	50	130
1,1-Dichloropropene	1	40.8616	0	50	82	50	130
Chloroform	1	42.2547	0	50	85	50	130
Cyclohexane	1	42.8515	0	50	86	50	130
1,2-Dichloroethane	1	35.3669	0	50	71	50	130
2-Butanone	1	33.3922	0	50	67	20	130
1,1,1-Trichloroethane	1	29.4342	0	50	59	50	130
Carbon Tetrachloride	1	39.6344	0	50	79	50	130
Vinyl Acetate	1	20.8749	0	50	42*	50	130
Bromodichloromethane	1	41.9876	0	50	84	50	130
Methylcyclohexane	1	45.0224	0	50	90	50	130
Dibromomethane	1	45.6776	0	50	91	50	130
1,2-Dichloropropane	1	46.4544	0	50	93	50	130
Trichloroethene	1	41.3587	0	50	83	50	130
Benzene	1	46.1465	0	50	92	50	130
tert-Amyl methyl ether	1	29.9445	0	50	60	50	130
Iso-propylacetate	1	24.356	0	50	49*	50	130
Methyl methacrylate	1	30.4719	0	50	61	50	130
Dibromochloromethane	1	36.8702	0	50	74	50	130
2-Chloroethylvinylether	1	29.8432	0	50	60	50	130
cis-1,3-Dichloropropene	1	33.0153	0	50	66	50	130
trans-1,3-Dichloropropene	1	26.0315	0	50	52	50	130
Ethyl methacrylate	1	33.5358	0	50	67	50	130
1,1,2-Trichloroethane	1	39.3635	0	50	79	50	130
1,2-Dibromoethane	1	51.2737	0	50	103	50	130
1,3-Dichloropropane	1	43.0879	0	50	86	50	130
4-Methyl-2-Pentanone	1	27.5387	0	50	55	20	130
2-Hexanone	1	26.7053	0	50	53	20	130
Tetrachloroethene	1	35.0911	0	50	70	50	130
Toluene	1	38.8308	0	50	78	50	130
1,1,1,2-Tetrachloroethane	1	39.2153	0	50	78	50	130
Chlorobenzene	1	38.8675	0	50	78	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	42.6169	0	50	85	50	130
n-Amyl acetate	1	38.9769	0	50	78	50	130
Bromoform	**1**	**37.0609**	**0**	**50**	**74**	**20**	**130**
Ethylbenzene	**1**	**41.1963**	**0**	**50**	**82**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**37.6027**	**0**	**50**	**75**	**50**	**130**
Styrene	**1**	**43.1843**	**0**	**50**	**86**	**50**	**130**
m&p-Xylenes	**1**	**79.9698**	**0**	**100**	**80**	**50**	**130**
o-Xylene	**1**	**41.6233**	**0**	**50**	**83**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	26.0035	0	50	52	20	130
1,3-Dichlorobenzene	**1**	**38.3393**	**0**	**50**	**77**	**50**	**130**
1,4-Dichlorobenzene	**1**	**37.3313**	**0**	**50**	**75**	**50**	**130**
1,2-Dichlorobenzene	**1**	**38.1788**	**0**	**50**	**76**	**50**	**130**
Isopropylbenzene	**1**	**39.1293**	**0**	**50**	**78**	**50**	**130**
Cyclohexanone	1	229.9436	0	250	92	50	130
Camphene	1	31.9599	0	50	64	50	130
1,2,3-Trichloropropane	1	35.1951	0	50	70	50	130
2-Chlorotoluene	1	38.6117	0	50	77	50	130
p-Ethyltoluene	1	42.1683	0	50	84	50	130
4-Chlorotoluene	1	37.1102	0	50	74	50	130
n-Propylbenzene	1	37.2569	0	50	75	50	130
Bromobenzene	1	35.4089	0	50	71	50	130
1,3,5-Trimethylbenzene	1	37.0171	0	50	74	50	130
Butyl methacrylate	1	35.486	0	50	71	50	130
t-Butylbenzene	1	35.9304	0	50	72	50	130
1,2,4-Trimethylbenzene	1	39.5929	0	50	79	50	130
sec-Butylbenzene	1	37.6949	0	50	75	50	130
4-Isopropyltoluene	1	36.939	0	50	74	50	130
n-Butylbenzene	1	37.3564	0	50	75	50	130
p-Diethylbenzene	1	40.024	0	50	80	50	130
1,2,4,5-Tetramethylbenzene	1	39.6066	0	50	79	50	130
1,2-Dibromo-3-Chloropropane	**1**	**36.7481**	**0**	**50**	**73**	**50**	**130**
Camphor	1	133.2067	0	500	27*	50	130
Hexachlorobutadiene	1	28.5376	0	50	57	50	130
1,2,4-Trichlorobenzene	**1**	**39.3171**	**0**	**50**	**79**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**36.9653**	**0**	**50**	**74**	**50**	**130**
Naphthalene	1	32.2092	0	50	64	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553164.D	AD27849-014(MS)	12/15/2021 5:31:00 PM
Non Spike(If applicable):	8M553160.D	AD27849-014	12/15/2021 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.0876	0	50	54	20	130
Dichlorodifluoromethane	1	19.7694	0	50	40	20	130
Chloromethane	1	25.4769	0	50	51	20	130
Bromomethane	1	31.381	0	50	63	20	130
Vinyl Chloride	1	30.9659	0	50	62	20	130
Chloroethane	1	26.5119	0	50	53	20	130
Trichlorofluoromethane	1	27.8574	0	50	56	20	130
Ethyl ether	1	30.22	0	50	60	50	130
Furan	1	22.1395	0	50	44*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.8306	0	50	66	50	130
Methylene Chloride	1	37.992	6.8875	50	62	50	130
Acrolein	1	98.766	0	200	49	20	130
Acrylonitrile	1	30.0811	0	50	60	20	130
Iodomethane	1	35.5467	0	50	71	50	130
Acetone	1	155.3701	68.3723	200	43	20	130
Carbon Disulfide	1	33.1051	0	50	66	50	130
t-Butyl Alcohol	1	149.4839	0	200	75	20	130
n-Hexane	1	41.9484	0	50	84	50	130
Di-isopropyl-ether	1	23.827	0	50	48*	50	130
1,1-Dichloroethene	1	25.4219	0	50	51	50	130
Methyl Acetate	1	34.3246	0	50	69	50	130
Methyl-t-butyl ether	1	43.3938	0	50	87	50	130
1,1-Dichloroethane	1	32.2084	0	50	64	50	130
trans-1,2-Dichloroethene	1	41.3567	0	50	83	50	130
Ethyl-t-butyl ether	1	50.0308	0	50	100	50	130
cis-1,2-Dichloroethene	1	38.706	0	50	77	50	130
Bromochloromethane	1	36.16	0	50	72	50	130
2,2-Dichloropropane	1	32.1908	0	50	64	50	130
Ethyl acetate	1	21.7736	0	50	44*	50	130
1,4-Dioxane	1	1832.884	0	2500	73	50	130
1,1-Dichloropropene	1	38.4958	0	50	77	50	130
Chloroform	1	40.8971	0	50	82	50	130
Cyclohexane	1	40.0423	0	50	80	50	130
1,2-Dichloroethane	1	34.8673	0	50	70	50	130
2-Butanone	1	3.6066	0	50	7.2*	20	130
1,1,1-Trichloroethane	1	25.1906	0	50	50	50	130
Carbon Tetrachloride	1	36.7286	0	50	73	50	130
Vinyl Acetate	1	23.3264	0	50	47*	50	130
Bromodichloromethane	1	40.722	0	50	81	50	130
Methylcyclohexane	1	41.2431	0	50	82	50	130
Dibromomethane	1	43.3686	0	50	87	50	130
1,2-Dichloropropane	1	44.0911	0	50	88	50	130
Trichloroethene	1	40.6252	0	50	81	50	130
Benzene	1	44.7207	0	50	89	50	130
tert-Amyl methyl ether	1	50.4756	0	50	101	50	130
Iso-propylacetate	1	10.9684	0	50	22*	50	130
Methyl methacrylate	1	37.1814	0	50	74	50	130
Dibromochloromethane	1	36.9842	0	50	74	50	130
2-Chloroethylvinylether	1	30.4547	0	50	61	50	130
cis-1,3-Dichloropropene	1	32.3423	0	50	65	50	130
trans-1,3-Dichloropropene	1	26.717	0	50	53	50	130
Ethyl methacrylate	1	22.441	0	50	45*	50	130
1,1,2-Trichloroethane	1	39.0596	0	50	78	50	130
1,2-Dibromoethane	1	48.1546	0	50	96	50	130
1,3-Dichloropropane	1	43.7185	0	50	87	50	130
4-Methyl-2-Pentanone	1	27.6457	0	50	55	20	130
2-Hexanone	1	23.7215	0	50	47	20	130
Tetrachloroethene	1	35.6688	0	50	71	50	130
Toluene	1	38.8708	0	50	78	50	130
1,1,1,2-Tetrachloroethane	1	38.0881	0	50	76	50	130
Chlorobenzene	1	38.5935	0	50	77	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	29.9545	0	50	60	50	130
n-Amyl acetate	1	24.0328	0	50	48*	50	130
Bromoform	**1**	**38.0227**	**0**	**50**	**76**	**20**	**130**
Ethylbenzene	**1**	**40.8051**	**0**	**50**	**82**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**38.8254**	**0**	**50**	**78**	**50**	**130**
Styrene	**1**	**43.6639**	**0**	**50**	**87**	**50**	**130**
m&p-Xylenes	**1**	**81.8732**	**0**	**100**	**82**	**50**	**130**
o-Xylene	**1**	**42.2793**	**0**	**50**	**85**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	24.5527	0	50	49	20	130
1,3-Dichlorobenzene	**1**	**36.0184**	**0**	**50**	**72**	**50**	**130**
1,4-Dichlorobenzene	**1**	**35.3241**	**0**	**50**	**71**	**50**	**130**
1,2-Dichlorobenzene	**1**	**35.6928**	**0**	**50**	**71**	**50**	**130**
Isopropylbenzene	**1**	**38.5523**	**0**	**50**	**77**	**50**	**130**
Cyclohexanone	1	179.7916	0	250	72	50	130
Camphene	1	30.641	0	50	61	50	130
1,2,3-Trichloropropane	1	34.1585	0	50	68	50	130
2-Chlorotoluene	1	36.8803	0	50	74	50	130
p-Ethyltoluene	1	41.1434	0	50	82	50	130
4-Chlorotoluene	1	36.9896	0	50	74	50	130
n-Propylbenzene	1	36.6041	0	50	73	50	130
Bromobenzene	1	31.5729	0	50	63	50	130
1,3,5-Trimethylbenzene	1	36.938	0	50	74	50	130
Butyl methacrylate	1	25.9911	0	50	52	50	130
t-Butylbenzene	1	34.8028	0	50	70	50	130
1,2,4-Trimethylbenzene	1	38.577	0	50	77	50	130
sec-Butylbenzene	1	34.2654	0	50	69	50	130
4-Isopropyltoluene	1	34.777	0	50	70	50	130
n-Butylbenzene	1	32.6278	0	50	65	50	130
p-Diethylbenzene	1	36.2243	0	50	72	50	130
1,2,4,5-Tetramethylbenzene	1	35.8349	0	50	72	50	130
1,2-Dibromo-3-Chloropropane	**1**	**32.6578**	**0**	**50**	**65**	**50**	**130**
Camphor	1	908.5166	0	500	182*	50	130
Hexachlorobutadiene	1	19.7569	0	50	40*	50	130
1,2,4-Trichlorobenzene	**1**	**30.0685**	**0**	**50**	**60**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**27.9071**	**0**	**50**	**56**	**50**	**130**
Naphthalene	1	31.1402	0	50	62	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553165.D	AD27849-014(MSD)	12/15/2021 5:51:00 PM
Non Spike(If applicable):	8M553160.D	AD27849-014	12/15/2021 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	25.1675	0	50	50	20	130
Dichlorodifluoromethane	1	20.4586	0	50	41	20	130
Chloromethane	1	27.1059	0	50	54	20	130
Bromomethane	1	35.009	0	50	70	20	130
Vinyl Chloride	1	32.2938	0	50	65	20	130
Chloroethane	1	29.2169	0	50	58	20	130
Trichlorofluoromethane	1	28.0719	0	50	56	20	130
Ethyl ether	1	32.0632	0	50	64	50	130
Furan	1	23.4424	0	50	47*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	33.7656	0	50	68	50	130
Methylene Chloride	1	41.5224	6.8875	50	69	50	130
Acrolein	1	93.8678	0	200	47	20	130
Acrylonitrile	1	31.5404	0	50	63	20	130
Iodomethane	1	35.3555	0	50	71	50	130
Acetone	1	161.6986	68.3723	200	47	20	130
Carbon Disulfide	1	34.0513	0	50	68	50	130
t-Butyl Alcohol	1	158.6011	0	200	79	20	130
n-Hexane	1	43.8493	0	50	88	50	130
Di-isopropyl-ether	1	30.8266	0	50	62	50	130
1,1-Dichloroethene	1	25.1894	0	50	50	50	130
Methyl Acetate	1	35.735	0	50	71	50	130
Methyl-t-butyl ether	1	47.5668	0	50	95	50	130
1,1-Dichloroethane	1	33.564	0	50	67	50	130
trans-1,2-Dichloroethene	1	41.5117	0	50	83	50	130
Ethyl-t-butyl ether	1	51.917	0	50	104	50	130
cis-1,2-Dichloroethene	1	38.7205	0	50	77	50	130
Bromochloromethane	1	36.4119	0	50	73	50	130
2,2-Dichloropropane	1	33.8056	0	50	68	50	130
Ethyl acetate	1	25.8217	0	50	52	50	130
1,4-Dioxane	1	2008.466	0	2500	80	50	130
1,1-Dichloropropene	1	38.1845	0	50	76	50	130
Chloroform	1	40.4783	0	50	81	50	130
Cyclohexane	1	42.1077	0	50	84	50	130
1,2-Dichloroethane	1	34.5732	0	50	69	50	130
2-Butanone	1	4.9614	0	50	9.9*	20	130
1,1,1-Trichloroethane	1	27.2842	0	50	55	50	130
Carbon Tetrachloride	1	38.9593	0	50	78	50	130
Vinyl Acetate	1	28.5838	0	50	57	50	130
Bromodichloromethane	1	41.0835	0	50	82	50	130
Methylcyclohexane	1	41.766	0	50	84	50	130
Dibromomethane	1	44.3908	0	50	89	50	130
1,2-Dichloropropane	1	44.3639	0	50	89	50	130
Trichloroethene	1	39.8719	0	50	80	50	130
Benzene	1	44.2573	0	50	89	50	130
tert-Amyl methyl ether	1	62.1728	0	50	124	50	130
Iso-propylacetate	1	17.9509	0	50	36*	50	130
Methyl methacrylate	1	35.7848	0	50	72	50	130
Dibromochloromethane	1	36.1383	0	50	72	50	130
2-Chloroethylvinylether	1	28.1049	0	50	56	50	130
cis-1,3-Dichloropropene	1	32.7902	0	50	66	50	130
trans-1,3-Dichloropropene	1	27.397	0	50	55	50	130
Ethyl methacrylate	1	24.22	0	50	48*	50	130
1,1,2-Trichloroethane	1	38.733	0	50	77	50	130
1,2-Dibromoethane	1	51.3944	0	50	103	50	130
1,3-Dichloropropane	1	42.7485	0	50	85	50	130
4-Methyl-2-Pentanone	1	28.5918	0	50	57	20	130
2-Hexanone	1	23.6741	0	50	47	20	130
Tetrachloroethene	1	33.7119	0	50	67	50	130
Toluene	1	37.9548	0	50	76	50	130
1,1,1,2-Tetrachloroethane	1	36.4337	0	50	73	50	130
Chlorobenzene	1	37.004	0	50	74	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	30.6983	0	50	61	50	130
n-Amyl acetate	1	24.423	0	50	49*	50	130
Bromoform	**1**	**35.2436**	**0**	**50**	**70**	**20**	**130**
Ethylbenzene	**1**	**40.8803**	**0**	**50**	**82**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**37.4082**	**0**	**50**	**75**	**50**	**130**
Styrene	**1**	**41.308**	**0**	**50**	**83**	**50**	**130**
m&p-Xylenes	**1**	**80.0448**	**0**	**100**	**80**	**50**	**130**
o-Xylene	**1**	**41.0189**	**0**	**50**	**82**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	24.2601	0	50	49	20	130
1,3-Dichlorobenzene	**1**	**35.1966**	**0**	**50**	**70**	**50**	**130**
1,4-Dichlorobenzene	**1**	**34.3169**	**0**	**50**	**69**	**50**	**130**
1,2-Dichlorobenzene	**1**	**34.976**	**0**	**50**	**70**	**50**	**130**
Isopropylbenzene	**1**	**37.3431**	**0**	**50**	**75**	**50**	**130**
Cyclohexanone	1	139.8752	0	250	56	50	130
Camphene	1	30.9322	0	50	62	50	130
1,2,3-Trichloropropane	1	34.1842	0	50	68	50	130
2-Chlorotoluene	1	35.6597	0	50	71	50	130
p-Ethyltoluene	1	40.1513	0	50	80	50	130
4-Chlorotoluene	1	36.3787	0	50	73	50	130
n-Propylbenzene	1	35.5554	0	50	71	50	130
Bromobenzene	1	31.2214	0	50	62	50	130
1,3,5-Trimethylbenzene	1	34.6119	0	50	69	50	130
Butyl methacrylate	1	26.5007	0	50	53	50	130
t-Butylbenzene	1	33.446	0	50	67	50	130
1,2,4-Trimethylbenzene	1	37.3452	0	50	75	50	130
sec-Butylbenzene	1	33.541	0	50	67	50	130
4-Isopropyltoluene	1	34.1679	0	50	68	50	130
n-Butylbenzene	1	32.3621	0	50	65	50	130
p-Diethylbenzene	1	35.7738	0	50	72	50	130
1,2,4,5-Tetramethylbenzene	1	34.88	0	50	70	50	130
1,2-Dibromo-3-Chloropropane	**1**	**32.9601**	**0**	**50**	**66**	**50**	**130**
Camphor	1	1271.926	0	500	254*	50	130
Hexachlorobutadiene	1	20.1841	0	50	40*	50	130
1,2,4-Trichlorobenzene	**1**	**31.2195**	**0**	**50**	**62**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**28.7389**	**0**	**50**	**57**	**50**	**130**
Naphthalene	1	31.301	0	50	63	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553165.D	AD27849-014(MSD)	12/15/2021 5:51:00 PM
Duplicate(If applicable):	8M553164.D	AD27849-014(MS)	12/15/2021 5:31:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	25.1675	27.0876	7.3	30
Dichlorodifluoromethane	1	20.4586	19.7694	3.4	30
Chloromethane	1	27.1059	25.4769	6.2	30
Bromomethane	1	35.009	31.381	11	30
Vinyl Chloride	1	32.2938	30.9659	4.2	40
Chloroethane	1	29.2169	26.5119	9.7	30
Trichlorofluoromethane	1	28.0719	27.8574	0.77	30
Ethyl ether	1	32.0632	30.22	5.9	30
Furan	1	23.4424	22.1395	5.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	33.7656	32.8306	2.8	30
Methylene Chloride	1	41.5224	37.992	8.9	30
Acrolein	1	93.8678	98.766	5.1	30
Acrylonitrile	1	31.5404	30.0811	4.7	30
Iodomethane	1	35.3555	35.5467	0.54	30
Acetone	1	161.6986	155.3701	4	30
Carbon Disulfide	1	34.0513	33.1051	2.8	30
t-Butyl Alcohol	1	158.6011	149.4839	5.9	30
n-Hexane	1	43.8493	41.9484	4.4	30
Di-isopropyl-ether	1	30.8266	23.827	26	30
1,1-Dichloroethene	1	25.1894	25.4219	0.92	40
Methyl Acetate	1	35.735	34.3246	4	30
Methyl-t-butyl ether	1	47.5668	43.3938	9.2	30
1,1-Dichloroethane	1	33.564	32.2084	4.1	40
trans-1,2-Dichloroethene	1	41.5117	41.3567	0.37	30
Ethyl-t-butyl ether	1	51.917	50.0308	3.7	30
cis-1,2-Dichloroethene	1	38.7205	38.706	0.04	30
Bromochloromethane	1	36.4119	36.16	0.69	30
2,2-Dichloropropane	1	33.8056	32.1908	4.9	30
Ethyl acetate	1	25.8217	21.7736	17	30
1,4-Dioxane	1	2008.466	1832.884	9.1	30
1,1-Dichloropropene	1	38.1845	38.4958	0.81	30
Chloroform	1	40.4783	40.8971	1	40
Cyclohexane	1	42.1077	40.0423	5	30
1,2-Dichloroethane	1	34.5732	34.8673	0.85	40
2-Butanone	1	4.9614	3.6066	32	40
1,1,1-Trichloroethane	1	27.2842	25.1906	8	30
Carbon Tetrachloride	1	38.9593	36.7286	5.9	40
Vinyl Acetate	1	28.5838	23.3264	20	30
Bromodichloromethane	1	41.0835	40.722	0.88	30
Methylcyclohexane	1	41.766	41.2431	1.3	30
Dibromomethane	1	44.3908	43.3686	2.3	30
1,2-Dichloropropane	1	44.3639	44.0911	0.62	30
Trichloroethene	1	39.8719	40.6252	1.9	40
Benzene	1	44.2573	44.7207	1	40
tert-Amyl methyl ether	1	62.1728	50.4756	21	30
Iso-propylacetate	1	17.9509	10.9684	48*	30
Methyl methacrylate	1	35.7848	37.1814	3.8	30
Dibromochloromethane	1	36.1383	36.9842	2.3	30
2-Chloroethylvinylether	1	28.1049	30.4547	8	30
cis-1,3-Dichloropropene	1	32.7902	32.3423	1.4	30
trans-1,3-Dichloropropene	1	27.397	26.717	2.5	30
Ethyl methacrylate	1	24.22	22.441	7.6	30
1,1,2-Trichloroethane	1	38.733	39.0596	0.84	30
1,2-Dibromoethane	1	51.3944	48.1546	6.5	30
1,3-Dichloropropane	1	42.7485	43.7185	2.2	30
4-Methyl-2-Pentanone	1	28.5918	27.6457	3.4	30
2-Hexanone	1	23.6741	23.7215	0.2	30
Tetrachloroethene	1	33.7119	35.6688	5.6	40
Toluene	1	37.9548	38.8708	2.4	40
1,1,1,2-Tetrachloroethane	1	36.4337	38.0881	4.4	30
Chlorobenzene	1	37.004	38.5935	4.2	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	30.6983	29.9545	2.5	30
n-Amyl acetate	1	24.423	24.0328	1.6	30
Bromoform	**1**	**35.2436**	**38.0227**	**7.6**	**30**
Ethylbenzene	**1**	**40.8803**	**40.8051**	**0.18**	**30**
1,1,2,2-Tetrachloroethane	**1**	**37.4082**	**38.8254**	**3.7**	**30**
Styrene	**1**	**41.308**	**43.6639**	**5.5**	**30**
m&p-Xylenes	**1**	**80.0448**	**81.8732**	**2.3**	**30**
o-Xylene	**1**	**41.0189**	**42.2793**	**3**	**30**
trans-1,4-Dichloro-2-butene	1	24.2601	24.5527	1.2	30
1,3-Dichlorobenzene	**1**	**35.1966**	**36.0184**	**2.3**	**30**
1,4-Dichlorobenzene	**1**	**34.3169**	**35.3241**	**2.9**	**40**
1,2-Dichlorobenzene	**1**	**34.976**	**35.6928**	**2**	**40**
Isopropylbenzene	**1**	**37.3431**	**38.5523**	**3.2**	**30**
Cyclohexanone	1	139.8752	179.7916	25	30
Camphene	1	30.9322	30.641	0.95	30
1,2,3-Trichloropropane	1	34.1842	34.1585	0.08	30
2-Chlorotoluene	1	35.6597	36.8803	3.4	30
p-Ethyltoluene	1	40.1513	41.1434	2.4	30
4-Chlorotoluene	1	36.3787	36.9896	1.7	30
n-Propylbenzene	1	35.5554	36.6041	2.9	40
Bromobenzene	1	31.2214	31.5729	1.1	30
1,3,5-Trimethylbenzene	1	34.6119	36.938	6.5	30
Butyl methacrylate	1	26.5007	25.9911	1.9	30
t-Butylbenzene	1	33.446	34.8028	4	30
1,2,4-Trimethylbenzene	1	37.3452	38.577	3.2	30
sec-Butylbenzene	1	33.541	34.2654	2.1	40
4-Isopropyltoluene	1	34.1679	34.777	1.8	30
n-Butylbenzene	1	32.3621	32.6278	0.82	30
p-Diethylbenzene	1	35.7738	36.2243	1.3	30
1,2,4,5-Tetramethylbenzene	1	34.88	35.8349	2.7	30
1,2-Dibromo-3-Chloropropane	**1**	**32.9601**	**32.6578**	**0.92**	**30**
Camphor	1	1271.926	908.5166	33*	30
Hexachlorobutadiene	1	20.1841	19.7569	2.1	30
1,2,4-Trichlorobenzene	**1**	**31.2195**	**30.0685**	**3.8**	**30**
1,2,3-Trichlorobenzene	**1**	**28.7389**	**27.9071**	**2.9**	**30**
Naphthalene	1	31.301	31.1402	0.52	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M553149.D
Matrix: Soil

Blank Analysis Date: 12/15/21 12:28
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD27810-001	8M553170.D	12/15/21 19:32
AD27810-002	8M553171.D	12/15/21 19:52
AD27849-014(MSD	8M553165.D	12/15/21 17:51
AD27849-014(MS)	8M553164.D	12/15/21 17:31
MBS98234	8M553163.D	12/15/21 17:10
AD27849-014	8M553160.D	12/15/21 16:10

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M552664.D
Analysis Date: 12/06/21 19:58
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.359 to 7.394 min

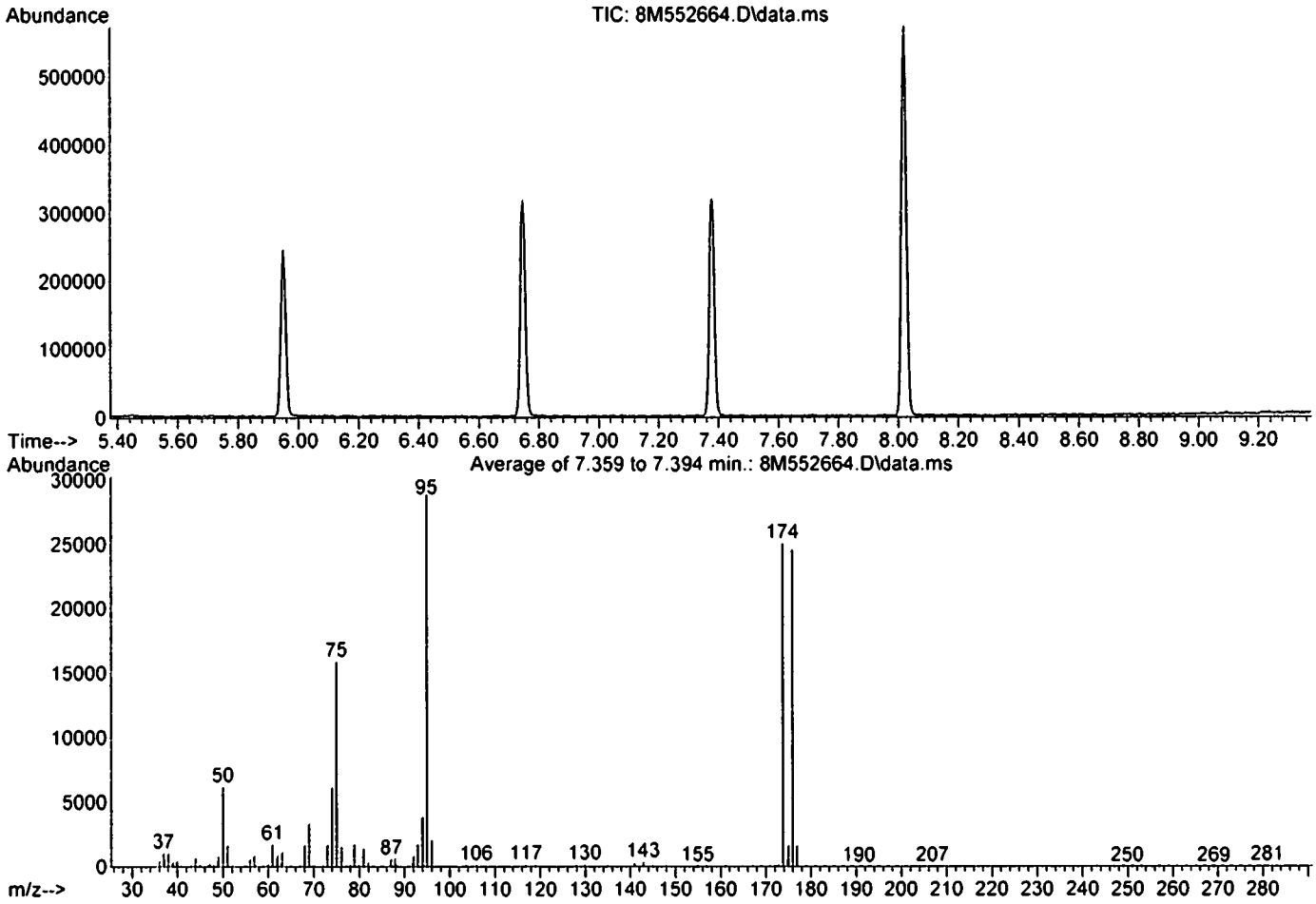
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.5	6222	PASS
75	95	30	60	55.1	15910	PASS
95	95	100	100	100.0	28896	PASS
96	95	5	9	7.2	2086	PASS
173	174	0.00	2	0.9	214	PASS
174	95	50	100	86.7	25046	PASS
175	174	5	9	6.6	1659	PASS
176	174	95	101	98.1	24576	PASS
177	176	5	9	6.7	1640	PASS

Data File	Sample Number	Analysis Date:
8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37
8M552667.D	CAL @ 1 PPB	12/06/21 20:57
8M552668.D	CAL @ 5 PPB	12/06/21 21:17
8M552669.D	CAL @ 2 PPB	12/06/21 21:38
8M552670.D	CAL @ 20 PPB	12/06/21 21:58
8M552671.D	CAL @ 50 PPB	12/06/21 22:18
8M552672.D	CAL @ 100 PPB	12/06/21 22:38
8M552673.D	CAL @ 250 PPB	12/06/21 22:58
8M552674.D	CAL @ 500 PPB	12/06/21 23:18
8M552675.D	BLK	12/06/21 23:39
8M552676.D	BLK	12/06/21 23:59
8M552677.D	BLK	12/07/21 00:19
8M552678.D	BLK	12/07/21 00:39
8M552679.D	ICV	12/07/21 00:59
8M552680.D	BLK	12/07/21 01:15
8M552681.D	STD	12/07/21 01:30
8M552682.D	BLK	12/07/21 01:50
8M552683.D	BLK	12/07/21 02:10
8M552684.D	DAILY BLANK	12/07/21 02:31
8M552685.D	AD27723-001	12/07/21 02:51
8M552686.D	AD27667-001	12/07/21 03:11
8M552687.D	AD27667-002	12/07/21 03:31
8M552688.D	AD27667-003	12/07/21 03:51
8M552689.D	AD27723-001(MS)	12/07/21 04:12
8M552690.D	AD27723-001(MSD	12/07/21 04:32
8M552691.D	MBS98151	12/07/21 04:52
8M552692.D	BLK	12/07/21 05:12
8M552693.D	AD27723-002	12/07/21 05:32
8M552694.D	AD27723-003	12/07/21 05:53
8M552695.D	AD27723-004	12/07/21 06:13
8M552696.D	AD27723-005	12/07/21 06:33
8M552697.D	AD27723-006	12/07/21 06:53
8M552698.D	AD27723-007	12/07/21 07:13
8M552699.D	AD27723-008	12/07/21 07:34
8M552700.D	AD27710-018(5X)	12/07/21 07:54
8M552701.D	STD	12/07/21 08:14
8M552702.D	STD	12/07/21 08:34
8M552703.D	BLK	12/07/21 08:54
8M552704.D	BLK	12/07/21 09:15
8M552705.D	BLK	12/07/21 09:35
8M552706.D	BLK	12/07/21 09:55
8M552707.D	BLK	12/07/21 10:15
8M552708.D	BLK	12/07/21 10:57

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-06-21\
Data File : 8M552664.D
Acq On : 06 Dec 2021 19:58
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_S1007.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Oct 07 15:40:24 2021



Spectrum Information: Average of 7.359 to 7.394 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	6222	PASS
75	95	30	60	55.1	15910	PASS
95	95	100	100	100.0	28896	PASS
96	95	5	9	7.2	2086	PASS
173	174	0.00	2	0.9	214	PASS
174	95	50	100	86.7	25046	PASS
175	174	5	9	6.6	1659	PASS
176	174	95	101	98.1	24576	PASS
177	176	5	9	6.7	1640	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8

Data File: 8M553142.D
Analysis Date: 12/15/21 10:07
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.365 to 7.378 min

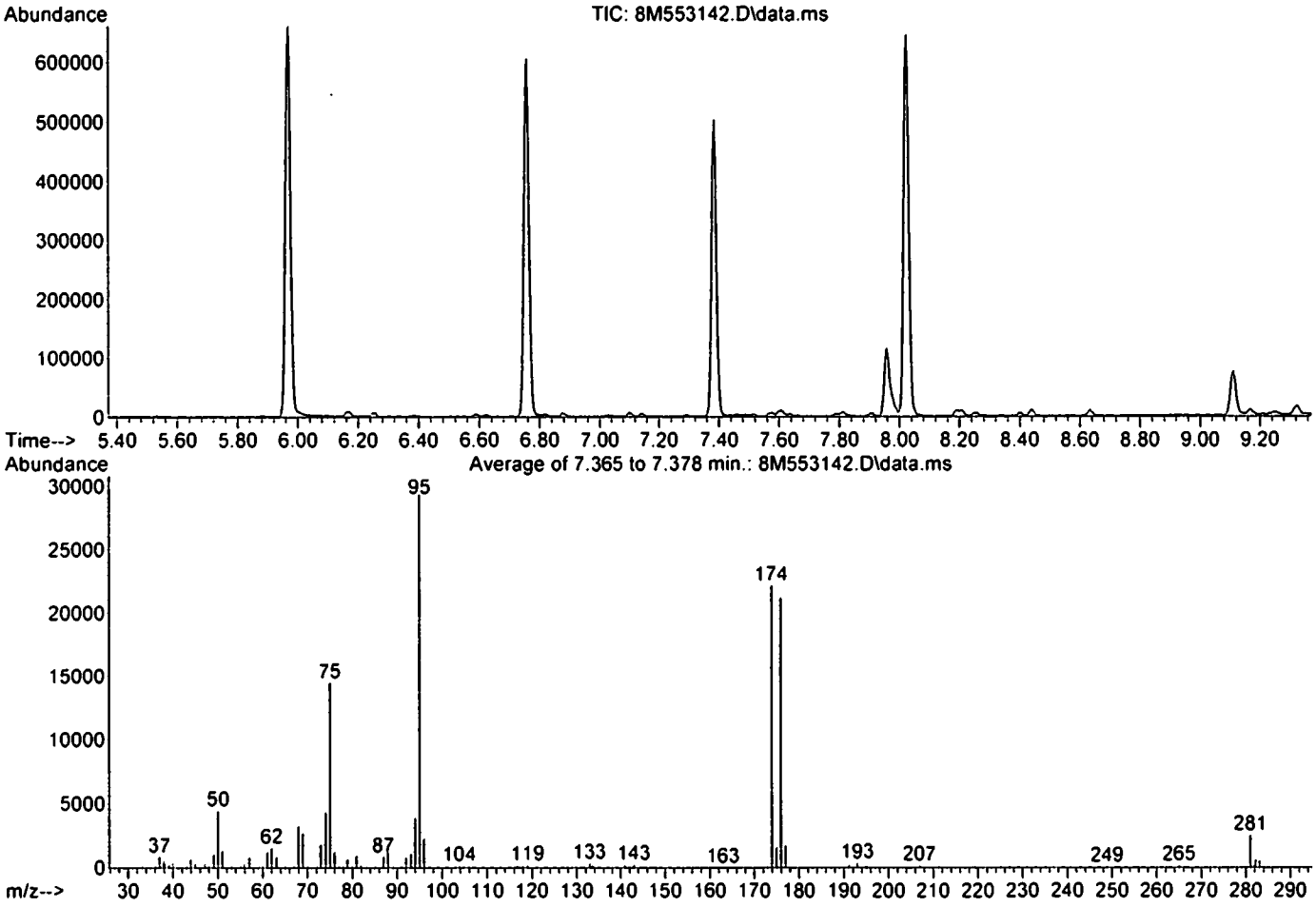
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.2	4461	PASS
75	95	30	60	49.4	14517	PASS
95	95	100	100	100.0	29373	PASS
96	95	5	9	7.8	2287	PASS
173	174	0.00	2	0.5	105	PASS
174	95	50	100	75.5	22173	PASS
175	174	5	9	7.3	1611	PASS
176	174	95	101	95.6	21199	PASS
177	176	5	9	8.3	1770	PASS

Data File	Sample Number	Analysis Date:
8M553143.D	STD	12/15/21 10:27
8M553144.D	50 PPB	12/15/21 10:47
8M553145.D	CAL @ 50 PPB	12/15/21 11:07
8M553146.D	BLK	12/15/21 11:27
8M553147.D	BLK	12/15/21 11:47
8M553148.D	BLK	12/15/21 12:08
8M553149.D	DAILY BLANK	12/15/21 12:28
8M553150.D	BLK	12/15/21 12:48
8M553151.D	BLK	12/15/21 13:08
8M553152.D	AD27903-002	12/15/21 13:28
8M553153.D	AD27822-001	12/15/21 13:48
8M553154.D	AD27848-011	12/15/21 14:09
8M553155.D	AD27848-012	12/15/21 14:29
8M553156.D	AD27848-025	12/15/21 14:49
8M553157.D	AD27848-026	12/15/21 15:09
8M553158.D	AD27823-002	12/15/21 15:30
8M553159.D	AD27862-001	12/15/21 15:50
8M553160.D	AD27849-014	12/15/21 16:10
8M553161.D	AD27887-001	12/15/21 16:30
8M553162.D	AD27738-001	12/15/21 16:50
8M553163.D	MBS98234	12/15/21 17:10
8M553164.D	AD27849-014(MS)	12/15/21 17:31
8M553165.D	AD27849-014(MSD	12/15/21 17:51
8M553169.D	AD27862-001	12/15/21 19:12
8M553170.D	AD27810-001	12/15/21 19:32
8M553171.D	AD27810-002	12/15/21 19:52
8M553172.D	AD27878-003	12/15/21 20:12
8M553173.D	AD27878-004	12/15/21 20:33
8M553174.D	AD27878-005	12/15/21 20:53
8M553175.D	AD27878-007	12/15/21 21:13
8M553176.D	AD27878-009	12/15/21 21:33

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Data File : 8M553142.D
Acq On : 15 Dec 2021 10:07
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_8\MethodQt\8M_S1206.M
Title : @GCMS_8,ug,624,8260
Last Update : Tue Dec 07 00:08:47 2021



Spectrum Information: Average of 7.365 to 7.378 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	4461	PASS
75	95	30	60	49.4	14517	PASS
95	95	100	100	100.0	29373	PASS
96	95	5	9	7.8	2287	PASS
173	174	0.00	2	0.5	105	PASS
174	95	50	100	75.5	22173	PASS
175	174	5	9	7.3	1611	PASS
176	174	95	101	95.6	21199	PASS
177	176	5	9	8.3	1770	PASS

1120911 0041

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4375	0.4360	0.3820	0.4201	0.4281	0.4910	0.4636	-----	-----	0.437	1.67	0.999	0.999	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.3577	0.4105	0.3355	0.3644	0.3776	0.4521	0.4253	-----	-----	0.389	1.66	0.998	0.998	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.3072	0.3404	0.3810	0.2933	0.3004	0.3605	0.3251	-----	-----	0.330	1.82	0.997	0.998	9.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1700	0.2107	0.1686	0.1704	0.2177	0.2552	0.2539	-----	-----	0.207	2.20	0.999	0.999	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.4498	0.4435	0.4228	0.3898	0.3833	0.4260	0.3654	-----	-----	0.412	1.92	0.994	0.998	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Qua	0.1869	0.1563	0.3396	0.1766	0.1785	0.2060	0.1880	-----	-----	0.205	2.29	0.998	0.999	30	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.6770	0.7111	0.5526	0.6468	0.6501	0.7529	0.6924	-----	-----	0.669	2.49	0.998	0.999	9.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1342	0.1456	0.1433	0.1245	0.1219	0.1335	0.1250	-----	-----	0.133	2.71	0.999	0.999	7.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.4533	0.4273	0.4235	0.4051	0.4066	0.4615	0.4140	-----	-----	0.427	2.75	0.997	0.999	5.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.3027	0.3163	0.2837	0.2878	0.2820	0.3290	0.2948	-----	-----	0.299	2.91	0.997	0.998	5.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.2399	0.2512	0.2156	0.2134	0.2188	0.2525	0.2367	-----	-----	0.233	3.31	0.998	0.999	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0289	0.0327	0.0274	0.0230	0.0202	0.0220	0.0186	-----	-----	0.0247	2.81	0.993	0.998	21		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Qua	0.0415	0.0564	0.0362	0.0332	0.0342	0.0372	0.0341	-----	-----	0.0390	3.49	0.998	0.999	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Avg	0.0485	0.0616	0.0370	0.0406	0.0377	0.0465	0.0432	-----	-----	0.0451	3.06	0.998	0.998	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0432	0.0475	0.0589	0.0337	0.0300	0.0348	0.0304	-----	-----	0.0398	2.93	0.995	0.998	27	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.8636	0.8639	0.7960	0.8158	0.8396	0.9629	0.8567	-----	-----	0.857	3.12	0.996	0.998	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0274	0.0301	0.0286	0.0250	0.0244	0.0269	0.0249	-----	-----	0.0268	2.71	0.998	0.999	8.0		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.2991	0.3336	0.2889	0.2942	0.3060	0.3572	0.3241	-----	-----	0.315	3.77	0.997	0.998	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Qua	0.2375	0.2598	0.2113	0.2273	0.3034	0.3691	0.3668	-----	-----	0.282	3.93	0.998	0.998	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.7641	0.8067	0.7089	0.7043	0.6163	0.6588	0.5654	-----	-----	0.689	2.92	0.994	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0715	0.0809	0.0585	0.0611	0.0741	0.0877	0.0861	-----	-----	0.0743	3.20	0.999	0.999	15	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.0064	0.0059	0.0066	0.0064	0.0053	0.0062	0.0058	0.0087	-----	0.00644	3.51	0.998	0.999	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Qua	0.1613	0.0844	0.0707	0.2132	0.2917	0.3992	0.3976	-----	-----	0.231	3.89	0.997	0.997	59	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.2887	0.2982	0.2982	0.2812	0.2844	0.3262	0.2964	-----	-----	0.296	3.54	0.997	0.999	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.0064	0.0066	0.0062	0.0046	0.0060	0.0059	0.0060	-----	-----	0.00600	4.21	0.999	0.999	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.3501	0.3713	0.2811	0.3297	0.3309	0.3759	0.3487	-----	-----	0.341	4.35	0.998	0.999	9.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1449	0.1396	0.1315	0.1446	0.1495	0.1761	0.1589	-----	-----	0.149	4.52	0.997	0.998	9.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.0095	0.0128	0.0075	0.0102	0.0095	0.0122	0.0119	-----	-----	0.0106	4.35	0.998	0.998	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.0820	0.0859	0.0973	0.0644	0.0722	0.0883	0.0969	-----	-----	0.0839	4.37	0.996	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0013	0.0014	0.0013	0.0012	0.0013	0.0015	0.0013	-----	-----	0.00140	5.49	0.996	0.998	7.5		1000.	250.0	100.0	2500.	5000.	12500	25000		
1,1-Dichloropropene	1	0	Avg	0.4304	0.4433	0.3805	0.4241	0.4265	0.4958	0.4432	-----	-----	0.435	4.80	0.996	0.998	7.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.4840	0.4783	0.4364	0.4563	0.4601	0.5339	0.4836	-----	-----	0.476	4.56	0.997	0.998	6.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2919	0.2924	0.2827	0.2894	0.2895	0.2996	0.2969	0.2782	0.2870	0.290	4.67	-1	-1	2.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.3877	0.3683	0.3038	0.3767	0.3911	0.4584	0.4128	-----	-----	0.386	4.75	0.997	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1161	0.1218	0.1120	0.1161	0.1192	0.1186	0.1096	0.1099	0.1175	0.116	4.89	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2827	0.3045	0.2574	0.2640	0.2718	0.3197	0.2915	-----	-----	0.285	4.93	0.997	0.998	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Qua	0.0467	0.0177	0.0257	0.0272	0.0543	0.0429	0.0431	-----	-----	0.0369	4.37	0.995	0.995	36	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Qua	0.1424	0.1265	0.0642	0.1875	0.3072	0.4461	0.4587	-----	-----	0.248	4.70	0.995	0.997	64	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.3470	0.3180	0.2543	0.3454	0.3856	0.4712	0.4415	-----	-----	0.366	4.81	0.998	0.998	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.1502	0.1743	0.1658	0.1401	0.1858	0.2265	0.2359	-----	-----	0.183	3.93	0.998	0.999	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.3128	0.3258	0.2431	0.2958	0.3012	0.3444	0.3169	-----	-----	0.306	5.57	0.998	0.999	10	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120911 0042

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_8

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.4657	0.4697	0.3933	0.4645	0.4911	0.5761	0.5224	-----	-----	0.483	5.42	0.997	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1167	0.1192	0.1072	0.1012	0.0945	0.0875	0.0710	-----	-----	0.0997	5.49	0.987	1.00	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.2006	0.2132	0.1745	0.2014	0.2027	0.2307	0.2070	-----	-----	0.204	5.42	0.997	0.999	8.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.3504	0.3618	0.3547	0.3413	0.3464	0.4007	0.3670	-----	-----	0.360	5.29	0.998	0.999	5.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.0185	1.0159	0.8735	0.9708	0.9680	1.1024	0.9850	0.9796	-----	0.989	4.93	0.997	0.999	6.5	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Qua	0.0092	0.0188	0.0421	0.0053	0.0048	0.0051	0.0050	-----	-----	0.0130	4.98	0.999	0.999	110		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Qua	0.0492	0.0457	0.0348	0.0352	0.0585	0.0992	0.1132	-----	-----	0.0623	4.93	0.990	0.997	50	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.1152	0.1095	0.1412	0.1022	0.1093	0.1254	0.1101	-----	-----	0.116	5.46	0.995	0.998	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.2520	0.2502	0.2345	0.2474	0.2497	0.2849	0.2629	-----	-----	0.255	6.44	0.998	0.999	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0386	0.0221	0.0050	0.0528	0.0597	0.0659	0.0613	-----	-----	0.0437	5.75	0.998	0.999	52		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Qua	0.1771	0.1107	0.0768	0.2136	0.2674	0.3254	0.3011	-----	-----	0.210	5.81	0.997	0.998	45	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Qua	0.0948	0.0667	0.0388	0.1264	0.1816	0.2385	0.2384	-----	-----	0.141	6.10	0.997	0.998	57	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.1221	0.1201	0.1141	0.1196	0.1194	0.1397	0.1307	-----	-----	0.124	6.13	0.998	0.999	7.0	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1945	0.2048	0.1726	0.1823	0.1756	0.1908	0.1702	-----	-----	0.184	6.21	0.997	0.999	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Qua	0.1038	0.1194	0.1369	0.0816	0.0728	0.0662	0.0591	0.1504	0.1052	0.0995	6.52	0.996	1.00	32	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.2613	0.2451	0.2296	0.2615	0.2585	0.2829	0.2495	-----	-----	0.256	6.31	0.996	0.999	6.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.0893	0.1021	0.0987	0.0811	0.0853	0.1027	0.0958	-----	-----	0.0936	5.88	0.998	0.998	9.0	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0619	0.0685	0.0680	0.0485	0.0544	0.0672	0.0653	-----	-----	0.0620	6.33	0.998	0.998	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.3504	0.3545	0.3011	0.3325	0.3475	0.3944	0.3533	-----	-----	0.348	6.31	0.997	0.999	8.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.2338	1.2140	1.2692	1.2341	1.2427	1.2218	1.2064	1.2222	1.2202	1.23	5.97	-1	-1	1.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7808	0.7714	0.8085	0.7846	0.7960	0.8844	0.7918	0.8726	-----	0.811	6.01	0.997	0.999	5.3	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2790	0.2854	0.2696	0.2861	0.2813	0.3213	0.2970	-----	-----	0.289	6.81	0.998	0.999	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.8434	0.8560	0.8156	0.8093	0.8276	0.9135	0.8323	-----	-----	0.843	6.77	0.998	0.999	4.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.3049	0.2787	0.3014	0.3084	0.3485	0.3160	0.4625	-----	-----	0.332	7.03	0.976	0.998	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.2122	0.2246	0.3450	0.2186	0.2663	0.2335	0.2320	-----	-----	0.248	7.14	0.999	0.999	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.2680	0.2660	0.2672	0.2531	0.2642	0.2263	0.2806	-----	-----	0.261	7.22	0.991	0.998	6.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.7785	0.8403	0.8616	0.8012	0.8147	0.6902	0.7582	0.6592	-----	0.776	6.82	0.998	0.998	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.3944	0.3624	0.4213	0.3619	0.3560	0.2933	0.3827	-----	-----	0.367	7.44	0.986	0.997	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7456	0.7338	0.7313	0.7461	0.7646	0.5761	0.7600	0.7338	0.7336	0.725	7.38	-1	-1	7.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.4751	1.3561	1.1975	1.5059	1.5454	1.2687	1.6109	-----	-----	1.42	7.10	0.989	0.997	11	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	1.0697	1.0091	0.9571	1.0710	1.1032	0.9095	1.1518	1.0741	1.1690	1.06	6.88	0.990	0.997	8.1	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0015	0.9993	0.8820	1.0029	1.0099	0.8386	1.1052	0.9420	-----	0.973	7.10	0.987	0.997	8.6	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1753	0.1729	0.1204	0.1581	0.1848	0.1692	0.1818	-----	-----	0.166	7.46	0.999	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.2433	1.1892	1.1942	1.1965	1.2021	1.2928	0.9281	-----	-----	1.18	7.99	0.968	0.997	9.9	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.2016	1.1942	1.1711	1.1424	1.1466	1.2538	1.2194	-----	-----	1.19	8.04	1.00	1.00	3.4	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.0453	0.9923	0.9770	1.0215	1.0044	1.0490	0.8605	-----	-----	0.993	8.26	0.990	0.999	6.5	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.9385	2.7628	2.5219	2.9635	3.0760	2.5856	2.8987	2.5047	-----	2.78	7.29	0.997	0.998	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0031	0.0109	0.0181	0.0027	0.0018	0.0018	0.0021	-----	-----	0.00582	7.35	0.990	0.999	110		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.9993	0.9241	0.8642	1.0091	1.0625	0.9342	1.2679	-----	-----	1.01	7.46	0.984	0.998	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.4282	0.3887	0.4587	0.3758	0.3808	0.3334	0.4265	-----	-----	0.399	7.47	0.988	0.998	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.7322	1.6716	1.8141	1.6908	1.7114	1.6091	1.4798	-----	-----	1.67	7.58	0.998	1.00	6.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.6880	2.4558	2.3274	2.7321	2.8171	2.6022	2.4231	-----	-----	2.58	7.57	0.998	1.00	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.5935	1.5367	1.6281	1.5249	1.5142	1.6588	1.4868	-----	-----	1.56	7.64	0.997	0.999	4.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	3.3761	3.1856	3.0796	3.4125	3.4623	2.9792	3.2974	3.2968	-----	3.26	7.51	0.998	0.999	5.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3641	1.3431	1.3553	1.3401	1.3317	1.1336	1.4261	-----	-----	1.33	7.48	0.990	0.998	6.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.3.5-Trimethylbenzen	1	0	Avg	2.2982	2.1334	1.9935	2.3419	2.2939	2.3641	2.2269	2.1137	-----	2.22	7.60	0.999	1.00	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Qua	0.3563	0.3315	0.5739	0.3534	0.3495	0.3428	0.3099	0.4867	-----	0.388	7.60	0.997	1.00	24	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	2.5127	2.4309	2.2947	2.5213	2.6027	2.9295	1.9730	2.4274	-----	2.46	7.79	0.956	0.994	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1.2.4-Trimethylbenzen	1	0	Avg	2.1942	1.9985	1.8951	2.2169	2.2632	2.4791	1.5633	2.0680	-----	2.08	7.81	0.938	0.993	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	3.2916	2.9347	2.6921	3.2592	3.3240	3.6853	2.0574	3.1892	-----	3.05	7.91	0.898	0.989	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	2.8034	3.4082	4.2268	2.7121	2.7942	3.0493	-----	7.1902	-----	3.74	7.98	0.998	1.00	43		20.00	5.00	2.00	50.00	100.0	250.0			1.00
n-Butylbenzene	1	0	Avg	2.7917	2.5688	2.5579	2.8713	2.9790	2.8801	2.0366	2.9114	-----	2.70	8.20	0.965	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.3859	1.2693	1.4109	1.3974	1.4976	1.6475	1.2122	-----	-----	1.40	8.19	0.973	0.996	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2.4.5-Tetramethylbe	1	0	Qua	1.3884	1.2014	1.1364	1.6061	1.8339	2.2219	-----	-----	-----	1.56	8.63	0.994	1.00	26		20.00	5.00	2.00	50.00	100.0	250.0			
1.2-Dibromo-3-Chloro	1	0	Avg	0.0729	0.0751	0.0655	0.0664	0.0687	0.0832	0.0399	-----	-----	0.0674	8.69	0.823	0.976	20	0.05 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0015	0.0055	0.0129	0.0010	0.0038	0.0068	0.0087	-----	-----	0.00578	9.11	0.981	0.997	73		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.5024	0.4909	0.5415	0.5025	0.5221	0.5011	0.5794	-----	-----	0.520	9.25	0.996	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2.4-Trichlorobenzen	1	0	Avg	0.5000	0.4945	0.4535	0.5316	0.5843	0.5720	0.5085	-----	-----	0.521	9.17	0.996	1.00	8.8	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2.3-Trichlorobenzen	1	0	Avg	0.3992	0.3912	0.4014	0.4164	0.4602	0.4401	0.4366	-----	-----	0.421	9.46	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.6278	0.5799	1.1293	0.7232	0.8646	0.9070	0.9204	0.8519	-----	0.826	9.32	1.00	1.00	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M553145.D **Instrument:** GCMS 8

Cont Calibration Date/Time 12/15/2021 11:07:00 **Method:** EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	27.79	50	20	0.1	0.437	0.243	44.42	C1
Dichlorodifluoromethane	1	0		1.66	10.12	50	20	0.1	0.389	0.079	79.76	C1
Chloromethane	1	0		1.82	23.77	50	20	0.1	0.330	0.157	52.46	C1
Bromomethane	1	0		2.20	40.86	50	20	0.1	0.207	0.169	18.28	
Vinyl Chloride	1	0		1.92	29.30	50	20	0.1	0.412	0.241	41.40	C1
Chloroethane	1	0		2.28	31.63	50	20	0.1	0.205	0.130	36.73	C1
Trichlorofluoromethane	1	0		2.49	30.87	50	20	0.1	0.669	0.413	38.26	C1
Ethyl ether	1	0		2.71	40.04	50	20	0.5	0.133	0.106	19.92	
Furan	1	0		2.75	33.95	50	20	0.5	0.427	0.290	32.10	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.91	35.05	50	20	0.1	0.300	0.210	29.89	C1
Methylene Chloride	1	0		3.31	45.32	50	20	0.1	0.233	0.211	9.36	
Acrolein	1	0		2.81	152.92	250	20		0.025	0.015	38.83	C1
Acrylonitrile	1	0		3.50	41.20	50	20		0.039	0.031	17.59	
Iodomethane	1	0		3.06	47.55	50	20		0.045	0.043	4.90	
Acetone	1	0		2.94	135.62	250	20	0.1	0.040	0.020	45.75	C1
Carbon Disulfide	1	0		3.12	38.48	50	20	0.1	0.857	0.659	23.04	C1
t-Butyl Alcohol	1	0		2.71	194.52	250	20		0.027	0.021	22.19	C1
n-Hexane	1	0		3.76	49.42	50	20		0.315	0.311	1.16	
Di-isopropyl-ether	1	0		3.92	41.97	50	20		0.282	0.282	16.07	
1,1-Dichloroethene	1	0		2.92	28.50	50	20	0.1	0.689	0.393	42.99	C1
Methyl Acetate	1	0		3.20	42.40	50	20	0.1	0.074	0.063	15.19	
Methyl-t-butyl ether	1	0		3.50	41.31	50	20	0.1	0.006	0.005	17.38	
1,1-Dichloroethane	1	0		3.89	46.00	50	20	0.2	0.231	0.320	8.01	
trans-1,2-Dichloroethene	1	0		3.54	51.79	50	20	0.1	0.296	0.307	3.58	
Ethyl-t-butyl ether	1	0		4.21	57.81	50	20	0.5	0.006	0.007	15.62	
cis-1,2-Dichloroethene	1	0		4.35	51.72	50	20	0.1	0.341	0.353	3.45	
Bromochloromethane	1	0		4.52	44.80	50	20		0.149	0.134	10.40	
2,2-Dichloropropane	1	0		4.35	41.53	50	20		0.011	0.009	16.93	
Ethyl acetate	1	0		4.38	42.84	50	20		0.084	0.072	14.32	
1,4-Dioxane	1	0		5.49	2477.22	2500	20		0.001	0.001	0.91	
1,1-Dichloropropene	1	0		4.80	50.10	50	20		0.435	0.436	0.20	
Chloroform	1	0		4.56	52.65	50	20	0.2	0.476	0.501	5.30	
Dibromofluoromethane	1	0	S	4.67	26.14	75	**		0.290	0.252	12.88	
Cyclohexane	1	0		4.75	49.57	50	20	0.1	0.386	0.382	0.86	
1,2-Dichloroethane-d4	1	0	S	4.89	22.90	75	**		0.116	0.088	23.67	
1,2-Dichloroethane	1	0		4.93	43.68	50	20	0.1	0.285	0.249	12.65	
2-Butanone	1	0		4.37	31.58	50	20	0.1	0.037	0.028	36.83	C1
1,1,1-Trichloroethane	1	0		4.70	41.28	50	20	0.1	0.248	0.304	17.44	
Carbon Tetrachloride	1	0		4.81	48.98	50	20	0.1	0.366	0.359	2.04	
Vinyl Acetate	1	0		3.92	42.08	50	20		0.183	0.154	15.84	
Bromodichloromethane	1	0		5.57	53.34	50	20	0.2	0.306	0.326	6.69	
Methylcyclohexane	1	0		5.42	54.43	50	20	0.1	0.483	0.526	8.86	
Dibromomethane	1	0		5.49	56.89	50	20		0.100	0.113	13.77	
1,2-Dichloropropane	1	0		5.42	56.70	50	20	0.1	0.204	0.232	13.39	
Trichloroethene	1	0		5.29	51.93	50	20	0.2	0.360	0.374	3.86	
Benzene	1	0		4.93	56.96	50	20	0.5	0.989	1.127	13.92	
tert-Amyl methyl ether	1	0		4.97	58.18	50	20		0.013	0.006	16.36	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.93	40.31	50	20	0.5	0.062	0.058	19.38	
Methyl methacrylate	1	0		5.46	40.46	50	20	0.5	0.116	0.094	19.09	
Dibromochloromethane	1	0		6.44	48.61	50	20	0.1	0.255	0.247	2.77	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M553145.D **Instrument:** GCMS 8

Cont Calibration Date/Time 12/15/2021 11:07:00 **Method:** EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.75	40.89	50	20		0.044	0.053	18.22	
cis-1,3-Dichloropropene	1	0		5.81	47.78	50	20	0.2	0.210	0.295	4.44	
trans-1,3-Dichloropropene	1	0		6.10	43.49	50	20	0.1	0.141	0.182	13.02	
Ethyl methacrylate	1	0		6.13	43.31	50	20	0.5	0.124	0.107	13.37	
1,1,2-Trichloroethane	1	0		6.21	51.38	50	20	0.1	0.184	0.190	2.76	
1,2-Dibromoethane	1	0		6.51	61.93	50	20	0.1	0.100	0.091	23.86	C1
1,3-Dichloropropane	1	0		6.31	56.17	50	20		0.256	0.287	12.33	
4-Methyl-2-Pentanone	1	0		5.88	41.02	50	20	0.1	0.094	0.077	17.96	
2-Hexanone	1	0		6.33	40.34	50	20	0.1	0.062	0.050	19.32	
Tetrachloroethene	1	0		6.31	47.07	50	20	0.2	0.348	0.327	5.86	
Toluene-d8	1	0	S	5.97	28.62	75	**		1.229	1.173	4.59	
Toluene	1	0		6.01	50.54	50	20	0.4	0.811	0.820	1.08	
1,1,1,2-Tetrachloroethane	1	0		6.81	51.99	50	20		0.289	0.300	3.98	
Chlorobenzene	1	0		6.77	52.32	50	20	0.5	0.843	0.882	4.63	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.03	59.40	50	20	0.5	0.332	0.394	18.80	
n-Amyl acetate	1	0		7.14	55.63	50	20	0.5	0.248	0.275	11.27	
Bromoform	1	0		7.22	48.99	50	20	0.1	0.261	0.256	2.02	
Ethylbenzene	1	0		6.82	54.07	50	20	0.1	0.776	0.839	8.14	
1,1,2,2-Tetrachloroethane	1	0		7.44	49.46	50	20	0.1	0.367	0.363	1.08	
Bromofluorobenzene	1	0	S	7.38	30.91	75	**		0.725	0.747	3.03	
Styrene	1	0		7.10	58.54	50	20	0.3	1.423	1.666	17.08	
m&p-Xylenes	1	0		6.88	107.46	100	20	0.1	1.057	1.136	7.46	
o-Xylene	1	0		7.10	55.58	50	20	0.3	0.973	1.081	11.17	
trans-1,4-Dichloro-2-butene	1	0		7.46	38.71	50	20		0.166	0.129	22.59	C1
1,3-Dichlorobenzene	1	0		7.99	53.49	50	20	0.6	1.178	1.260	6.98	
1,4-Dichlorobenzene	1	0		8.04	51.82	50	20	0.5	1.190	1.233	3.64	
1,2-Dichlorobenzene	1	0		8.25	53.24	50	20	0.4	0.993	1.057	6.47	
Isopropylbenzene	1	0		7.29	52.69	50	20	0.1	2.782	2.931	5.38	
Cyclohexanone	1	0		7.36	311.78	250	20		0.006	0.002	24.71	C1
Camphene	1	0		7.46	46.43	50	20		1.009	0.937	7.15	
1,2,3-Trichloropropane	1	0		7.47	46.24	50	20		0.399	0.369	7.53	
2-Chlorotoluene	1	0		7.58	51.91	50	20		1.673	1.737	3.81	
p-Ethyltoluene	1	0		7.57	55.68	50	20		2.578	2.871	11.37	
4-Chlorotoluene	1	0		7.64	52.01	50	20		1.563	1.626	4.01	
n-Propylbenzene	1	0		7.51	51.76	50	20		3.261	3.376	3.51	
Bromobenzene	1	0		7.48	44.06	50	20		1.328	1.170	11.88	
1,3,5-Trimethylbenzene	1	0		7.60	50.79	50	20		2.221	2.256	1.57	
Butyl methacrylate	1	0		7.60	44.01	50	20	0.5	0.388	0.321	11.98	
t-Butylbenzene	1	0		7.79	50.07	50	20		2.462	2.465	0.13	
1,2,4-Trimethylbenzene	1	0		7.81	54.75	50	20		2.085	2.283	9.51	
sec-Butylbenzene	1	0		7.91	52.08	50	20		3.054	3.181	4.16	
4-Isopropyltoluene	1	0		7.98	50.57	50	20		3.741	2.754	1.15	
n-Butylbenzene	1	0		8.21	52.35	50	20		2.700	2.826	4.69	
p-Diethylbenzene	1	0		8.19	54.85	50	20		1.403	1.539	9.70	
1,2,4,5-Tetramethylbenzene	1	0		8.63	58.87	50	20		1.565	1.986	17.74	
1,2-Dibromo-3-Chloropropane	1	0		8.69	46.19	50	20	0.05	0.067	0.062	7.62	
Camphor	1	0		9.11	1631.12	500	20		0.006	0.018	226.22	C1
Hexachlorobutadiene	1	0		9.25	41.48	50	20		0.520	0.431	17.04	
1,2,4-Trichlorobenzene	1	0		9.17	61.25	50	20	0.2	0.521	0.638	22.49	C1
1,2,3-Trichlorobenzene	1	0		9.46	59.16	50	20		0.421	0.498	18.33	
Naphthalene	1	0		9.32	57.37	50	20		0.826	0.996	14.74	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M552670.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 21:58

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	258559	5.09	218739	6.76	120646	8.02								
Eval File Area Limit:	129280-517118		109370-437478		60323-241292									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									
Data File Sample#														
8M552666.D CAL @ 0.5 PPB	247232	5.09	209128	6.76	107268	8.02								
8M552667.D CAL @ 1 PPB	277907	5.09	231492	6.76	123463	8.02								
8M552668.D CAL @ 5 PPB	239805	5.09	202851	6.76	112416	8.02								
8M552669.D CAL @ 2 PPB	281604	5.09	230297	6.76	121898	8.02								
8M552670.D CAL @ 20 PPB	258559	5.09	218739	6.76	120646	8.02								
8M552671.D CAL @ 50 PPB	278738	5.09	235354	6.76	131125	8.02								
8M552672.D CAL @ 100 PPB	281452	5.09	237589	6.76	133001	8.02								
8M552673.D CAL @ 250 PPB	250171	5.09	217045	6.76	161858	8.02								
8M552674.D CAL @ 500 PPB	283417	5.09	248469	6.76	158202	8.02								
8M552675.D BLK	360944	5.09	296132	6.76	153651	8.02								
8M552676.D BLK	327211	5.09	274572	6.76	143167	8.02								
8M552677.D BLK	328460	5.09	262987	6.76	136634	8.02								
8M552678.D BLK	305557	5.09	252574	6.76	130979	8.02								
8M552679.D ICV	304622	5.09	253401	6.76	143455	8.02								
8M552680.D BLK	82497 A	5.04	116301	6.74	105391	8.02								
8M552681.D STD	289843	5.07	234298	6.75	124872	8.02								
8M552682.D BLK	310732	5.09	259116	6.76	137405	8.02								
8M552683.D BLK	323643	5.09	267090	6.76	142644	8.02								
8M552684.D DAILY BLANK	299956	5.09	248009	6.76	130013	8.02								
8M552685.D AD27723-001	308323	5.09	257376	6.76	133377	8.02								
8M552686.D AD27667-001	381632	5.09	318857	6.76	169752	8.02								
8M552687.D AD27667-002	378468	5.09	316245	6.76	161912	8.02								
8M552688.D AD27667-003	345311	5.09	298426	6.76	151441	8.02								
8M552689.D AD27723-001(MS)	367898	5.09	306510	6.76	175556	8.02								
8M552690.D AD27723-001(MSD)	398909	5.09	341042	6.76	188039	8.02								
8M552691.D MBS98151	285333	5.09	243030	6.76	134143	8.02								
8M552692.D BLK	331326	5.09	270530	6.76	142765	8.02								
8M552693.D AD27723-002	373681	5.09	316467	6.76	163702	8.02								
8M552694.D AD27723-003	385004	5.09	333008	6.76	170101	8.02								
8M552695.D AD27723-004	334171	5.09	284745	6.76	149466	8.02								
8M552696.D AD27723-005	369556	5.09	319286	6.76	169602	8.02								
8M552697.D AD27723-006	336479	5.09	287107	6.76	195412	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M552670.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 21:58

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	258559	5.09	218739	6.76	120646	8.02								
Eval File Area Limit:	129280-517118		109370-437478		60323-241292									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									
Data File Sample#														
8M552698.D AD27723-007	393694	5.09	327309	6.76	173197	8.02								
8M552699.D AD27723-008	317472	5.09	270160	6.76	139834	8.02								
8M552700.D AD27710-018(5X)	327600	5.09	273099	6.76	122439	8.02								
8M552701.D STD	278049	5.09	244390	6.76	131288	8.02								
8M552702.D STD	415012	5.09	355382	6.76	190720	8.02								
8M552703.D BLK	553523A	5.09	463464A	6.76	241002	8.02								
8M552704.D BLK	504807	5.09	411506	6.76	210772	8.02								
8M552705.D BLK	394569	5.09	425255	6.76	178968	8.02								
8M552706.D BLK	399689	5.09	325495	6.76	197919	8.02								
8M552707.D BLK	376498	5.09	315483	6.76	163729	8.02								
8M552708.D BLK	57290A	5.06	75482A	6.75	60056A	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553145.D Method: EPA 8260D

Analysis Date/Time: 12/15/21 11:07

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	294270	5.09	273847	6.76	150047	8.02								
Eval File Area Limit:	147135-588540		136924-547694		75024-300094									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample#													
8M553143.D	STD	316279	5.09	289550	6.76	157949	8.02							
8M553144.D	50 PPB	297498	5.09	274546	6.76	150677	8.02							
8M553146.D	BLK	286309	5.09	270583	6.76	147662	8.02							
8M553147.D	BLK	311248	5.09	280950	6.76	149710	8.02							
8M553148.D	BLK	302117	5.09	262047	6.76	136052	8.02							
8M553149.D	DAILY BLANK	294932	5.09	278184	6.76	147050	8.02							
8M553150.D	BLK	316202	5.09	287723	6.76	155186	8.02							
8M553151.D	BLK	282808	5.09	262074	6.76	141999	8.02							
8M553152.D	AD27903-002	259266	5.09	242621	6.76	129695	8.02							
8M553153.D	AD27822-001	302169	5.09	267154	6.76	128796	8.02							
8M553154.D	AD27848-011	318983	5.09	300503	6.76	160466	8.02							
8M553155.D	AD27848-012	255513	5.09	242516	6.76	130835	8.02							
8M553156.D	AD27848-025	299185	5.09	283042	6.76	152135	8.02							
8M553157.D	AD27848-026	276906	5.09	259709	6.76	143272	8.02							
8M553158.D	AD27823-002	300685	5.09	278570	6.76	130929	8.02							
8M553159.D	AD27862-001	276583	5.09	257851	6.76	123816	8.02							
8M553160.D	AD27849-014	328175	5.08	310484	6.76	163522	8.02							
8M553161.D	AD27887-001	290010	5.09	251291	6.76	106693	8.02							
8M553162.D	AD27738-001	379217	5.09	366466	6.76	203718	8.02							
8M553163.D	MBS98234	288643	5.09	277173	6.76	150719	8.02							
8M553164.D	AD27849-014(MS)	289057	5.09	265841	6.76	140333	8.03							
8M553165.D	AD27849-014(MSD)	265167	5.09	249848	6.76	132081	8.02							
8M553169.D	AD27862-001	232525	5.09	211972	6.76	87476	8.02							
8M553170.D	AD27810-001	128142A	5.09	125210A	6.76	67272A	8.02							
8M553171.D	AD27810-002	258394	5.09	248706	6.76	149066	8.02							
8M553172.D	AD27878-003	240542	5.09	229665	6.76	118177	8.02							
8M553173.D	AD27878-004	264999	5.09	256303	6.76	141532	8.02							
8M553174.D	AD27878-005	0A	0.00R	0A	0.00R	0A	0.00R							
8M553175.D	AD27878-007	106474A	5.09	106527A	6.76	59448A	8.02							
8M553176.D	AD27878-009	258076	5.09	237418	6.76	114608	8.02							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27810-001
Client Id: SB-012SS
Data File: 7M118664.D
Analysis Date: 12/22/21 10:15
Date Rec/Extracted: 12/09/21-12/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.039	U	**50-32-8**	**Benzo[a]pyrene**	**0.039**	**0.16**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.039	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.039**	**0.22**
122-66-7	1,2-Diphenylhydrazine	0.039	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.039**	**0.11**
123-91-1	1,4-Dioxane	0.020	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.039**	**0.063**
58-90-2	2,3,4,6-Tetrachlorophenol	0.039	U	100-51-6	Benzyl alcohol	0.039	U
95-95-4	2,4,5-Trichlorophenol	0.039	U	111-91-1	bis(2-Chloroethoxy)methan	0.039	U
88-06-2	2,4,6-Trichlorophenol	0.039	U	111-44-4	bis(2-Chloroethyl)ether	0.0097	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.039	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.039	U
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.039	U
121-14-2	2,4-Dinitrotoluene	0.039	U	105-60-2	Caprolactam	0.039	U
606-20-2	2,6-Dinitrotoluene	0.039	U	86-74-8	Carbazole	0.039	U
91-58-7	2-Chloronaphthalene	0.039	U	**218-01-9**	**Chrysene**	**0.039**	**0.18**
95-57-8	2-Chlorophenol	0.039	U	53-70-3	Dibenzo[a,h]anthracene	0.039	U
91-57-6	2-Methylnaphthalene	0.039	U	**132-64-9**	**Dibenzofuran**	**0.0098**	**0.035**
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.039	U
88-74-4	2-Nitroaniline	0.039	U	131-11-3	Dimethylphthalate	0.039	U
88-75-5	2-Nitrophenol	0.039	U	84-74-2	Di-n-butylphthalate	0.044	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.039	U
91-94-1	3,3'-Dichlorobenzidine	0.039	U	**206-44-0**	**Fluoranthene**	**0.039**	**0.40**
99-09-2	3-Nitroaniline	0.039	U	86-73-7	Fluorene	0.039	U
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.039	U
101-55-3	4-Bromophenyl-phenylether	0.039	U	87-68-3	Hexachlorobutadiene	0.039	U
59-50-7	4-Chloro-3-methylphenol	0.039	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.039	U
7005-72-3	4-Chlorophenyl-phenylether	0.039	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.039**	**0.094**
100-01-6	4-Nitroaniline	0.039	U	78-59-1	Isophorone	0.039	U
100-02-7	4-Nitrophenol	0.039	U	91-20-3	Naphthalene	0.011	U
83-32-9	**Acenaphthene**	**0.039**	**0.039**	98-95-3	Nitrobenzene	0.039	U
208-96-8	Acenaphthylene	0.039	U	62-75-9	N-Nitrosodimethylamine	0.048	U
98-86-2	Acetophenone	0.039	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	**Anthracene**	**0.039**	**0.095**	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.039	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.42	U	**85-01-8**	**Phenanthrene**	**0.039**	**0.38**
92-87-5	Benzidine	0.068	U	108-95-2	Phenol	0.039	U
56-55-3	**Benzo[a]anthracene**	**0.039**	**0.18**	**129-00-0**	**Pyrene**	**0.039**	**0.36**

Worksheet #: 622698 *Total Target Concentration* 2.3 ColumnID: (^) Indicates results from 2nd column

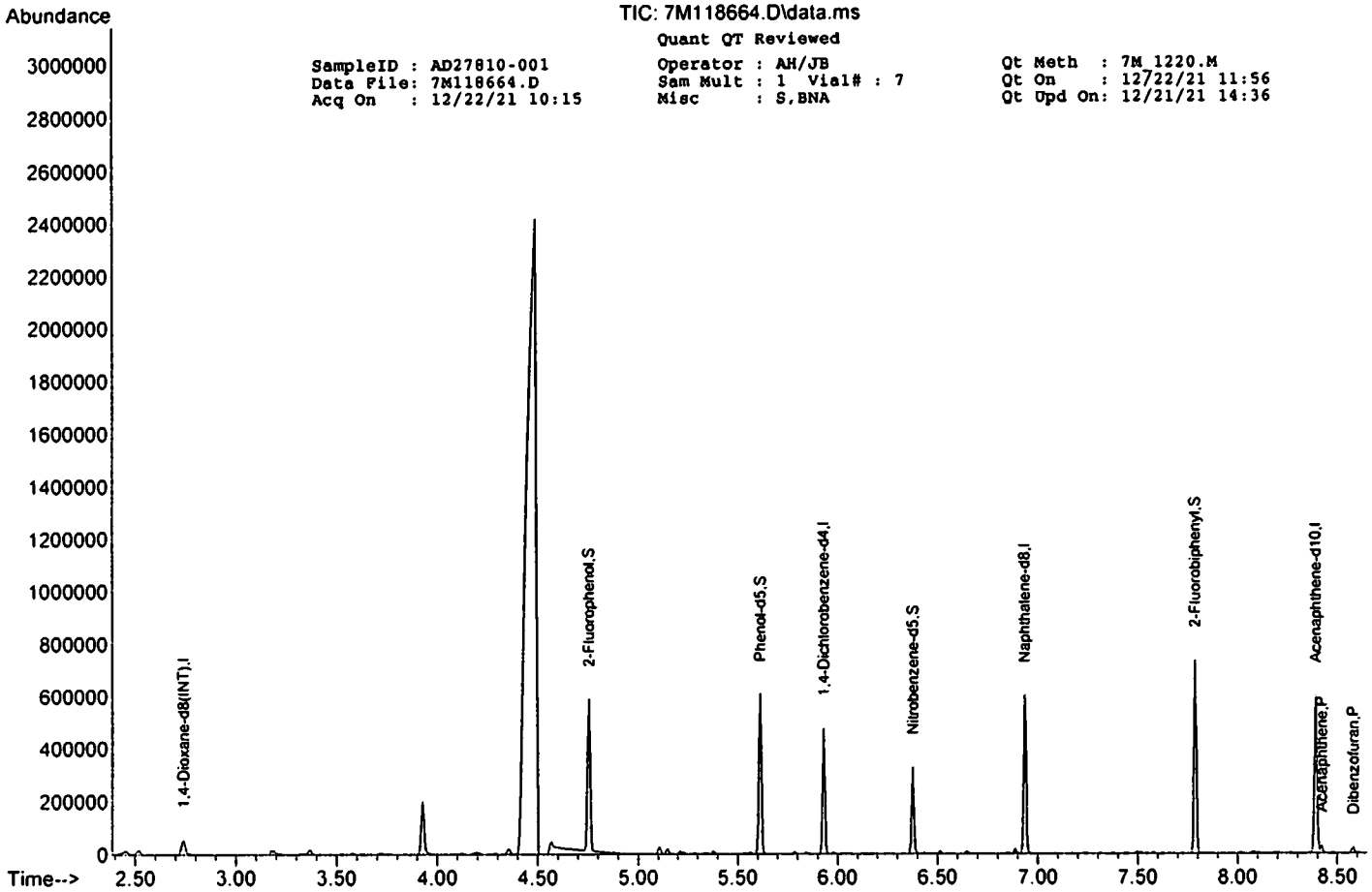
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

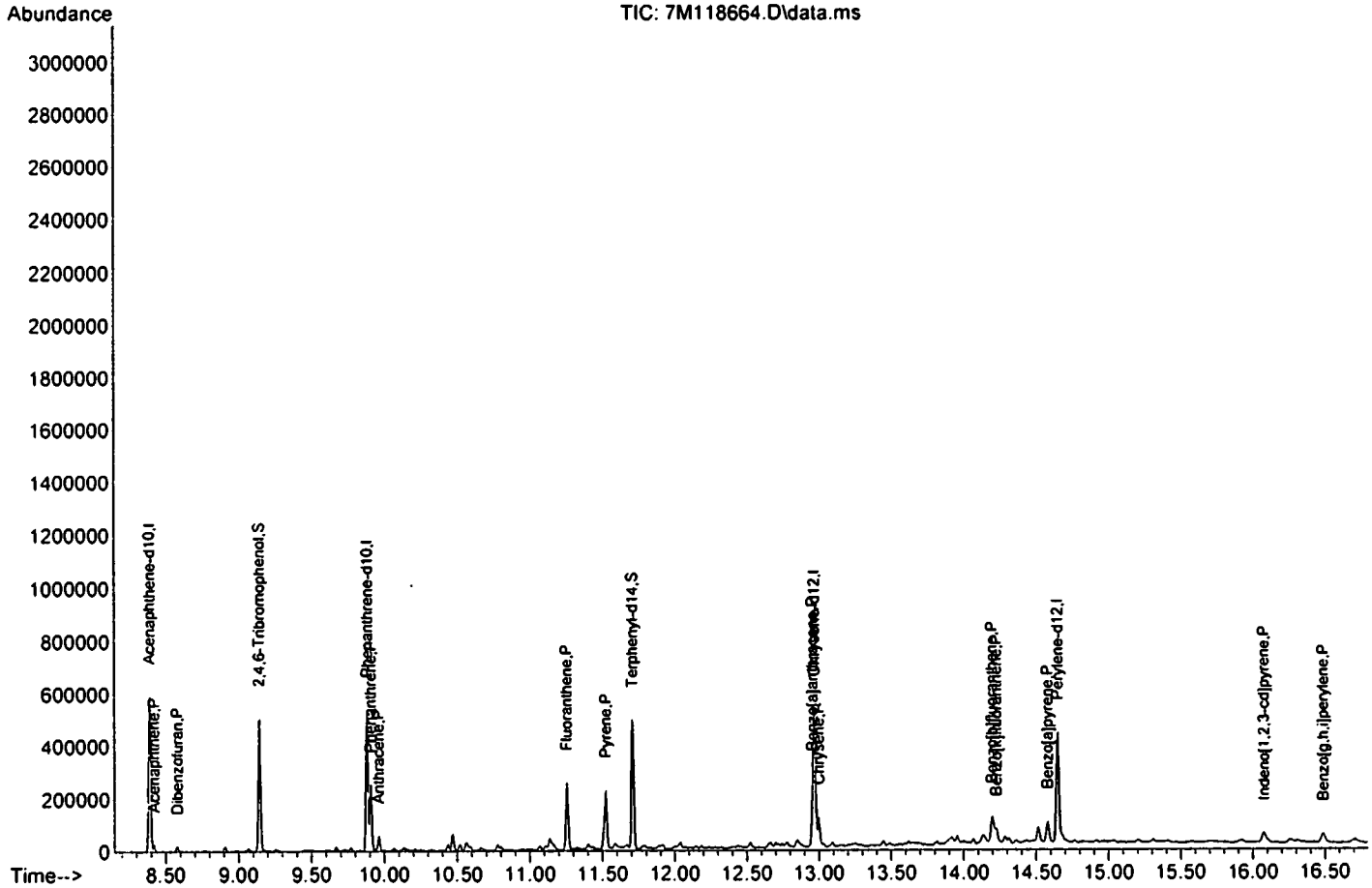
SampleID : AD27810-001 Operator : AH/JB Qt Meth : 7M_1220.M
Data File: 7M118664.D Sam Mult : 1 Vial# : 7 Qt On : 12/22/21 11:56
Acq On : 12/22/21 10:15 Misc : S,BNA Qt Upd On: 12/21/21 14:36

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-22-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.740	96	30437	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.930	152	66540	40.00	ng	0.00
31) Naphthalene-d8	6.935	136	248526	40.00	ng	0.00
50) Acenaphthene-d10	8.392	164	119870	40.00	ng	0.00
77) Phenanthrene-d10	9.885	188	216657	40.00	ng	0.00
91) Chrysene-d12	12.969	240	186130	40.00	ng	0.00
103) Perylene-d12	14.650	264	195558	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.755	112	160275	89.62	ng	0.00
Spiked Amount 100.000			Recovery = 89.62%			
16) Phenol-d5	5.613	99	189735	92.01	ng	0.00
Spiked Amount 100.000			Recovery = 92.01%			
32) Nitrobenzene-d5	6.377	128	44712	45.47	ng	0.00
Spiked Amount 50.000			Recovery = 90.94%			
55) 2-Fluorobiphenyl	7.787	172	203780	47.08	ng	0.00
Spiked Amount 50.000			Recovery = 94.16%			
80) 2,4,6-Tribromophenol	9.144	330	59631	99.95	ng	0.00
Spiked Amount 100.000			Recovery = 99.95%			
94) Terphenyl-d14	11.706	244	163538	50.70	ng	0.00
Spiked Amount 50.000			Recovery = 101.40%			
Target Compounds						Qvalue
65) Acenaphthene	8.422	153	6819m	2.0202	ng	
68) Dibenzofuran	8.580	168	8834	1.8147	ng	86
86) Phenanthrene	9.908	178	103976	19.5541	ng	99
87) Anthracene	9.961	178	26307m	4.9179	ng	
90) Fluoranthene	11.254	202	121323	20.5977	ng	86
92) Pyrene	11.524	202	104967	18.6731	ng	82
100) Benzo[a]anthracene	12.958	228	51174m	9.2914	ng	
101) Chrysene	12.999	228	45812	9.3284	ng	97
105) Benzo[b]fluoranthene	14.197	252	60172m	11.4025	ng	
106) Benzo[k]fluoranthene	14.227	252	16447m	3.2737	ng	
107) Benzo[a]pyrene	14.579	252	42663	8.5131	ng	90
108) Indeno[1,2,3-cd]pyrene	16.077	276	26345m	4.8601	ng	
110) Benzo[g,h,i]perylene	16.489	276	26716	5.6089	ng	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 7M118664.D\data.ms
Quant QT Reviewed
SampleID : AD27810-001
Data File: 7M118664.D
Acq On : 12/22/21 10:15
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : S,BNA
Qt Meth : 7M_1220.M
Qt On : 12/22/21 11:56
Qt Upd On: 12/21/21 14:36
Abundance
Time-->
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P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Abundance
Time-->
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Anthracene,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27810-002
Client Id: SB-013SS
Data File: 7M118665.D
Analysis Date: 12/22/21 10:40
Date Rec/Extracted: 12/09/21-12/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	**50-32-8**	**Benzo[a]pyrene**	**0.040**	**0.14**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.040**	**0.20**
122-66-7	1,2-Diphenylhydrazine	0.040	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.040**	**0.11**
123-91-1	1,4-Dioxane	0.020	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.040**	**0.058**
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	100-51-6	Benzyl alcohol	0.040	U
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.010	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.020	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.040	U
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	86-74-8	Carbazole	0.040	U
91-58-7	2-Chloronaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.13**
95-57-8	2-Chlorophenol	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
91-57-6	2-Methylnaphthalene	0.040	U	132-64-9	Dibenzofuran	0.010	U
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.040	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.046	U
106-44-5	3&4-Methylphenol	0.012	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.17**
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.099**
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	91-20-3	Naphthalene	0.012	U
83-32-9	Acenaphthene	0.040	U	98-95-3	Nitrobenzene	0.040	U
208-96-8	Acenaphthylene	0.040	U	62-75-9	N-Nitrosodimethylamine	0.049	U
98-86-2	Acetophenone	0.040	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	Anthracene	0.040	U	86-30-6	n-Nitrosodiphenylamine	0.14	U
1912-24-9	Atrazine	0.040	U	87-86-5	Pentachlorophenol	0.20	U
100-52-7	Benzaldehyde	0.44	U	**85-01-8**	**Phenanthrene**	**0.040**	**0.071**
92-87-5	Benzidine	0.071	U	108-95-2	Phenol	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.12**	**129-00-0**	**Pyrene**	**0.040**	**0.18**

Worksheet #: 622698 *Total Target Concentration* 1.3 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

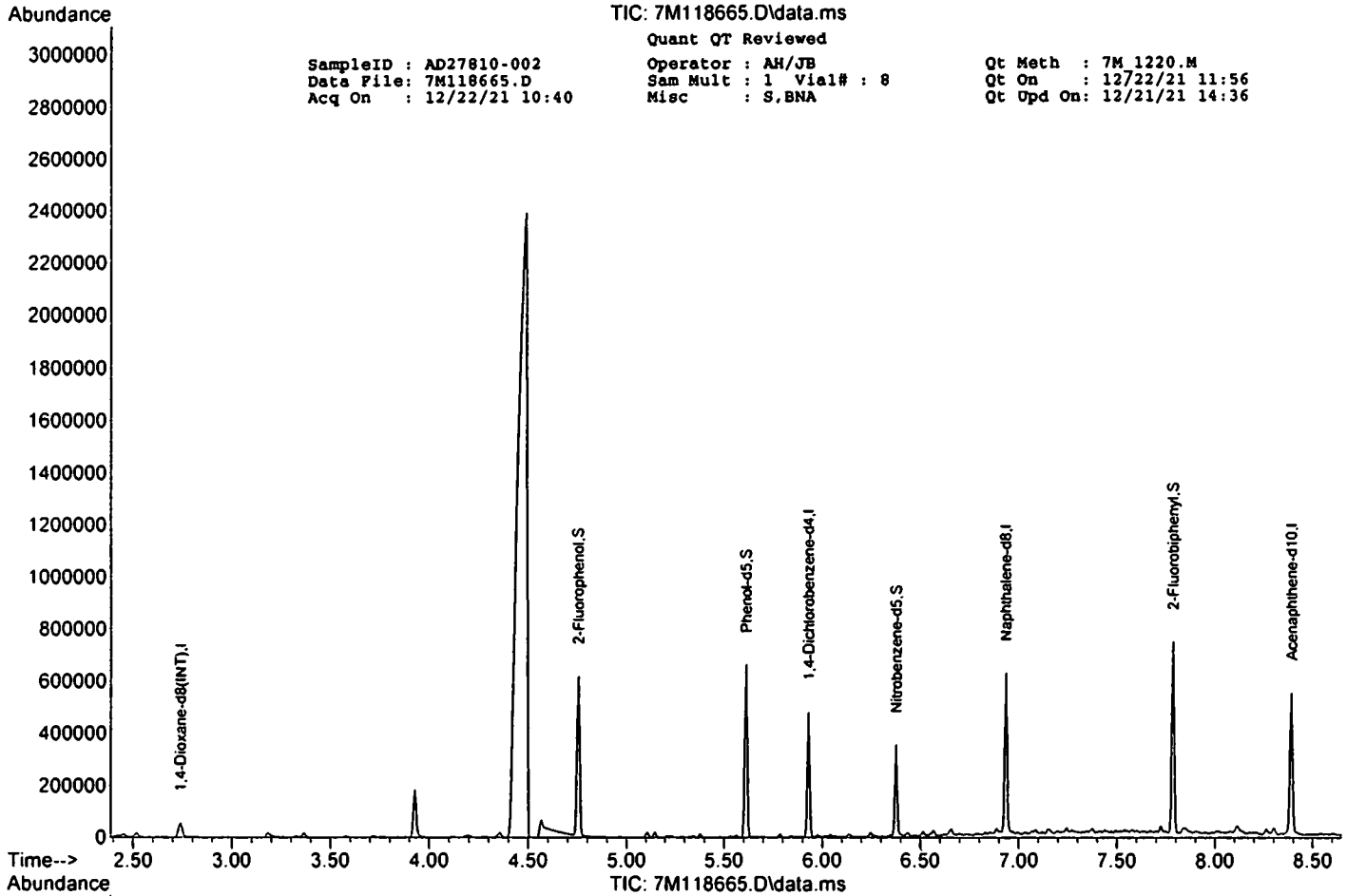
Quantitation Report (QT Reviewed)

SampleID : AD27810-002 Operator : AH/JB Qt Meth : 7M_1220.M
Data File: 7M118665.D Sam Mult : 1 Vial# : 8 Qt On : 12/22/21 11:56
Acq On : 12/22/21 10:40 Misc : S,BNA Qt Upd On: 12/21/21 14:36

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-22-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.740	96	31488	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.930	152	66697	40.00	ng	0.00
31) Naphthalene-d8	6.935	136	240679	40.00	ng	0.00
50) Acenaphthene-d10	8.392	164	112062	40.00	ng	0.00
77) Phenanthrene-d10	9.885	188	205650	40.00	ng	0.00
91) Chrysene-d12	12.969	240	177786	40.00	ng	0.00
103) Perylene-d12	14.638	264	190661	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.755	112	171232	92.55	ng	0.00
Spiked Amount 100.000			Recovery = 92.55%			
16) Phenol-d5	5.613	99	205414	96.29	ng	0.00
Spiked Amount 100.000			Recovery = 96.29%			
32) Nitrobenzene-d5	6.377	128	47921	50.32	ng	0.00
Spiked Amount 50.000			Recovery = 100.64%			
55) 2-Fluorobiphenyl	7.787	172	208086	51.43	ng	0.00
Spiked Amount 50.000			Recovery = 102.86%			
80) 2,4,6-Tribromophenol	9.144	330	61502	108.61	ng	0.00
Spiked Amount 100.000			Recovery = 108.61%			
94) Terphenyl-d14	11.712	244	168686	54.75	ng	0.00
Spiked Amount 50.000			Recovery = 109.50%			
Target Compounds						Qvalue
86) Phenanthrene	9.908	178	17744	3.5156	ng	98
90) Fluoranthene	11.254	202	46242	8.2710	ng	88
92) Pyrene	11.524	202	48077	8.9541	ng	81
100) Benzo[a]anthracene	12.957	228	31054m	5.9029	ng	
101) Chrysene	12.999	228	31099	6.6297	ng	96
105) Benzo[b]fluoranthene	14.185	252	50183m	9.7539	ng	
106) Benzo[k]fluoranthene	14.215	252	14100m	2.8786	ng	
107) Benzo[a]pyrene	14.567	252	33785	6.9147	ng	90
108) Indeno[1,2,3-cd]pyrene	16.060	276	25948m	4.9098	ng	
110) Benzo[g,h,i]perylene	16.477	276	26560	5.7194	ng	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed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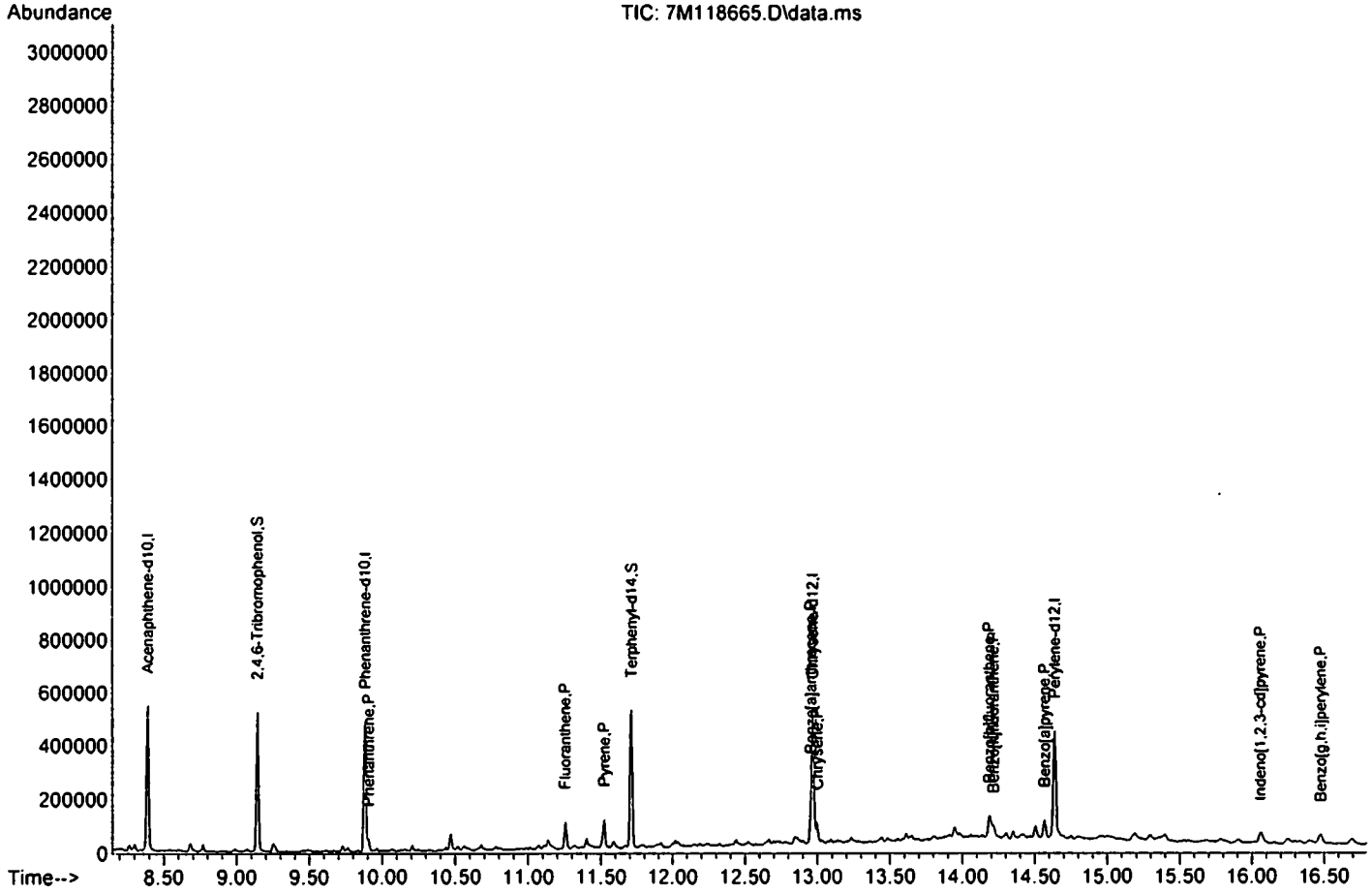
Quant QT Reviewed
SampleID : AD27810-002
Data File: 7M118665.D
Acq On : 12/22/21 10:40
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : S,BNA
Qt Meth : 7M_1220.M
Qt On : 12/22/21 11:56
Qt Upd On: 12/21/21 14:36
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->


Abundance
TIC: 7M118665.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95954
Client Id:
Data File: 7M118661.D
Analysis Date: 12/22/21 09:02
Date Rec/Extracted: NA-12/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 622698

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

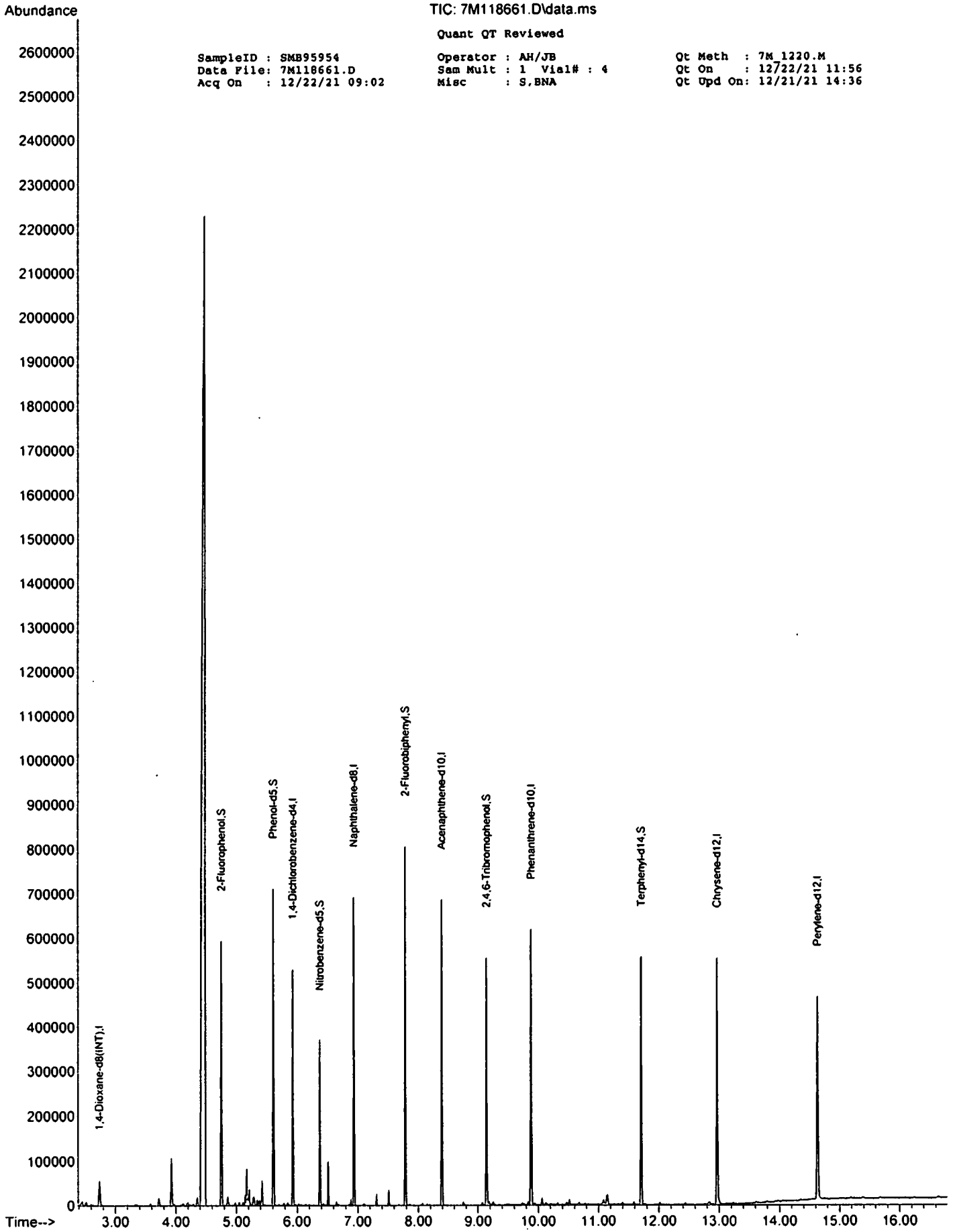
Quantitation Report (QT Reviewed)

SampleID : SMB95954 Operator : AH/JB Qt Meth : 7M_1220.M
Data File: 7M118661.D Sam Mult : 1 Vial# : 4 Qt On : 12/22/21 11:56
Acq On : 12/22/21 09:02 Misc : S,BNA Qt Upd On: 12/21/21 14:36

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-22-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.734	96	33262	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.930	152	73787	40.00	ng	0.00
31) Naphthalene-d8	6.935	136	280296	40.00	ng	0.00
50) Acenaphthene-d10	8.392	164	140831	40.00	ng	0.00
77) Phenanthrene-d10	9.884	188	258178	40.00	ng	0.00
91) Chrysene-d12	12.969	240	218257	40.00	ng	0.00
103) Perylene-d12	14.632	264	224615	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.755	112	180333	92.27	ng	0.00
Spiked Amount 100.000			Recovery = 92.27%			
16) Phenol-d5	5.613	99	214391	95.13	ng	0.00
Spiked Amount 100.000			Recovery = 95.13%			
32) Nitrobenzene-d5	6.377	128	50695	45.71	ng	0.00
Spiked Amount 50.000			Recovery = 91.42%			
55) 2-Fluorobiphenyl	7.787	172	228354	44.91	ng	0.00
Spiked Amount 50.000			Recovery = 89.82%			
80) 2,4,6-Tribromophenol	9.144	330	65474	92.10	ng	0.00
Spiked Amount 100.000			Recovery = 92.10%			
94) Terphenyl-d14	11.712	244	190002	50.24	ng	0.00
Spiked Amount 50.000			Recovery = 100.48%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M118661.D\data.ms
Quant QT Reviewed
SampleID : SMB95954
Data File: 7M118661.D
Acq On : 12/22/21 09:02
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : S,BNA
Qt Meth : 7M_1220.M
Qt On : 12/22/21 11:56
Qt Upd On: 12/21/21 14:36
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M118661.D	SMB95954	S	12/22/21 09:02	1		92	95	91	90	92	100
7M118664.D	AD27810-001	S	12/22/21 10:15	1		90	92	91	94	100	101
7M118665.D	AD27810-002	S	12/22/21 10:40	1		93	96	101	103	109	110
10M88963.D	SMB95954(MS)	S	12/21/21 14:14	1		71	71	86	84	81	87
7M118666.D	AD27946-001	S	12/22/21 11:04	1		93	95	104	99	116	111
9M110349.D	AD27946-001(MS)	S	12/22/21 22:18	1		94	99	100	92	97	115
9M110350.D	AD27946-001(MSD)	S	12/22/21 22:41	1		81	84	87	76	80	94

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95954

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M88963.D	SMB95954(MS)	12/21/2021 2:14:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.3952	0	50	33	25	150
Pyridine	1	29.1601	0	50	58	1	150
N-Nitrosodimethylamine	1	33.2874	0	50	67	50	130
Benzaldehyde	1	30.7825	0	50	62	20	220
Aniline	1	18.3017	0	50	37	20	150
Pentachloroethane	1	34.1374	0	50	68	50	130
bis(2-Chloroethyl)ether	1	34.8649	0	50	70	50	130
Phenol	1	67.9428	0	100	68	20	150
2-Chlorophenol	1	73.1627	0	100	73	50	130
N-Decane	1	29.5026	0	50	59	20	130
1,3-Dichlorobenzene	1	33.831	0	50	68	60	130
1,4-Dichlorobenzene	1	40.0932	0	50	80	60	130
1,2-Dichlorobenzene	1	39.0327	0	50	78	50	130
Benzyl alcohol	1	42.3013	0	50	85	20	130
bis(2-chloroisopropyl)ether	1	36.1036	0	50	72	40	130
2-Methylphenol	1	81.2708	0	100	81	50	130
Acetophenone	1	41.5902	0	50	83	50	130
Hexachloroethane	1	39.6775	0	50	79	50	130
N-Nitroso-di-n-propylamine	1	39.2695	0	50	79	40	130
3&4-Methylphenol	1	89.6807	0	100	90	70	130
Nitrobenzene	1	44.004	0	50	88	70	130
Isophorone	1	38.9813	0	50	78	60	130
2-Nitrophenol	1	94.8184	0	100	95	70	130
2,4-Dimethylphenol	1	83.6129	0	100	84	40	130
Benzoic Acid	1	76.4397	0	100	76	20	130
bis(2-Chloroethoxy)methane	1	42.724	0	50	85	60	130
2,4-Dichlorophenol	1	87.987	0	100	88	70	130
1,2,4-Trichlorobenzene	1	41.9544	0	50	84	50	130
Naphthalene	1	39.6165	0	50	79	50	130
4-Chloroaniline	1	24.8008	0	50	50	10	150
Hexachlorobutadiene	1	40.5187	0	50	81	60	130
Caprolactam	1	44.06	0	50	88	50	130
4-Chloro-3-methylphenol	1	90.9227	0	100	91	50	130
2-Methylnaphthalene	1	45.3921	0	50	91	70	130
1-Methylnaphthalene	1	43.1917	0	50	86	70	130
1,1'-Biphenyl	1	42.9843	0	50	86	60	130
1,2,4,5-Tetrachlorobenzene	1	41.6014	0	50	83	70	130
Hexachlorocyclopentadiene	1	39.2393	0	50	78	20	160
2,4,6-Trichlorophenol	1	90.4292	0	100	90	70	130
2,4,5-Trichlorophenol	1	92.3796	0	100	92	70	130
2-Chloronaphthalene	1	43.2163	0	50	86	70	130
1,4-Dimethylnaphthalene	1	43.8466	0	50	88	70	130
Diphenyl Ether	1	42.8011	0	50	86	70	130
2-Nitroaniline	1	46.8012	0	50	94	50	130
Coumarin	1	43.1033	0	50	86	70	130
Acenaphthylene	1	41.0164	0	50	82	70	130
Dimethylphthalate	1	43.1846	0	50	86	70	130
2,6-Dinitrotoluene	1	45.3935	0	50	91	70	130
Acenaphthene	1	43.7833	0	50	88	50	130
3-Nitroaniline	1	32.3246	0	50	65	10	130
2,4-Dinitrophenol	1	71.0071	0	100	71	20	150
Dibenzofuran	1	45.1475	0	50	90	70	130
2,4-Dinitrotoluene	1	42.4546	0	50	85	40	130
4-Nitrophenol	1	85.7204	0	100	86	20	150
2,3,4,6-Tetrachlorophenol	1	85.2654	0	100	85	70	130
Fluorene	1	43.3475	0	50	87	50	130
4-Chlorophenyl-phenylether	1	44.4215	0	50	89	70	130
Diethylphthalate	1	42.8103	0	50	86	70	130
4-Nitroaniline	1	43.7313	0	50	87	50	130
Atrazine	1	44.3367	0	50	89	50	130
4,6-Dinitro-2-methylphenol	1	86.0313	0	100	86	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95954

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	36.4729	0	50	73	50	130
1,2-Diphenylhydrazine	1	42.2687	0	50	85	70	130
4-Bromophenyl-phenylether	1	44.1513	0	50	88	70	130
Hexachlorobenzene	1	41.3187	0	50	83	70	130
N-Octadecane	1	43.2925	0	50	87	70	130
Pentachlorophenol	1	96.5703	0	100	97	40	130
Phenanthrene	1	44.0615	0	50	88	70	130
Anthracene	1	42.6155	0	50	85	70	130
Carbazole	1	43.0813	0	50	86	70	130
Di-n-butylphthalate	1	46.7627	0	50	94	70	130
Fluoranthene	1	45.2527	0	50	91	70	130
Pyrene	1	43.3203	0	50	87	50	130
Benzidine	1	2.1897	0	50	4.4	0	130
Butylbenzylphthalate	1	46.6083	0	50	93	50	130
3,3'-Dichlorobenzidine	1	27.3294	0	50	55	10	130
Benzo[a]anthracene	1	38.97	0	50	78	70	130
Chrysene	1	46.8812	0	50	94	60	130
bis(2-Ethylhexyl)phthalate	1	47.4904	0	50	95	70	130
Di-n-octylphthalate	1	49.2436	0	50	98	70	130
Benzo[b]fluoranthene	1	46.3731	0	50	93	70	130
Benzo[k]fluoranthene	1	46.3115	0	50	93	70	130
Benzo[a]pyrene	1	42.0663	0	50	84	70	130
Indeno[1,2,3-cd]pyrene	1	47.0009	0	50	94	70	130
Dibenzo[a,h]anthracene	1	44.4701	0	50	89	60	130
Benzo[g,h,i]perylene	1	43.4491	0	50	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95954

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110349.D	AD27946-001(MS)	12/22/2021 10:18:00 P
Non Spike(If applicable):	7M118666.D	AD27946-001	12/22/2021 11:04:00 A
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.6559	0	50	35	25	150
Pyridine	1	38.7886	0	50	78	1	150
N-Nitrosodimethylamine	1	41.4436	0	50	83	50	130
Benzaldehyde	1	40.6856	0	50	81	20	220
Aniline	1	28.4586	0	50	57	20	150
Pentachloroethane	1	36.8329	0	50	74	50	130
bis(2-Chloroethyl)ether	1	39.4662	0	50	79	50	130
Phenol	1	86.4801	0	100	86	20	150
2-Chlorophenol	1	86.4004	0	100	86	50	130
N-Decane	1	35.9756	0	50	72	20	130
1,3-Dichlorobenzene	1	38.1853	0	50	76	60	130
1,4-Dichlorobenzene	1	37.1628	0	50	74	60	130
1,2-Dichlorobenzene	1	37.0383	0	50	74	50	130
Benzyl alcohol	1	43.8576	0	50	88	20	130
bis(2-chloroisopropyl)ether	1	39.5454	0	50	79	40	130
2-Methylphenol	1	81.3631	0	100	81	50	130
Acetophenone	1	40.2745	0	50	81	50	130
Hexachloroethane	1	34.401	0	50	69	50	130
N-Nitroso-di-n-propylamine	1	43.754	0	50	88	40	130
3&4-Methylphenol	1	84.7579	0	100	85	70	130
Nitrobenzene	1	47.0178	0	50	94	70	130
Isophorone	1	41.7648	0	50	84	60	130
2-Nitrophenol	1	97.783	0	100	98	70	130
2,4-Dimethylphenol	1	86.2906	0	100	86	40	130
Benzoic Acid	1	82.691	0	100	83	20	130
bis(2-Chloroethoxy)methane	1	42.2938	0	50	85	60	130
2,4-Dichlorophenol	1	83.1248	0	100	83	70	130
1,2,4-Trichlorobenzene	1	40.6215	0	50	81	50	130
Naphthalene	1	38.7265	0	50	77	50	130
4-Chloroaniline	1	31.8978	0	50	64	10	150
Hexachlorobutadiene	1	37.0821	0	50	74	60	130
Caprolactam	1	60.8229	0	50	122	50	130
4-Chloro-3-methylphenol	1	91.9493	0	100	92	50	130
2-Methylnaphthalene	1	40.3578	0	50	81	70	130
1-Methylnaphthalene	1	38.8999	0	50	78	70	130
1,1'-Biphenyl	1	37.426	0	50	75	60	130
1,2,4,5-Tetrachlorobenzene	1	36.0201	0	50	72	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2,4,6-Trichlorophenol	1	82.338	0	100	82	70	130
2,4,5-Trichlorophenol	1	86.7873	0	100	87	70	130
2-Chloronaphthalene	1	39.9068	0	50	80	70	130
1,4-Dimethylnaphthalene	1	38.3085	0	50	77	70	130
Diphenyl Ether	1	38.3858	0	50	77	70	130
2-Nitroaniline	1	49.5423	0	50	99	50	130
Coumarin	1	39.1105	0	50	78	70	130
Acenaphthylene	1	39.9113	0	50	80	70	130
Dimethylphthalate	1	41.8044	0	50	84	70	130
2,6-Dinitrotoluene	1	38.4495	0	50	77	70	130
Acenaphthene	1	41.068	0	50	82	50	130
3-Nitroaniline	1	49.7479	0	50	99	70	130
2,4-Dinitrophenol	1	24.2148	0	100	24	20	150
Dibenzofuran	1	40.1526	0	50	80	70	130
2,4-Dinitrotoluene	1	41.962	0	50	84	40	130
4-Nitrophenol	1	90.6339	0	100	91	20	150
2,3,4,6-Tetrachlorophenol	1	79.4915	0	100	79	70	130
Fluorene	1	39.7849	0	50	80	50	130
4-Chlorophenyl-phenylether	1	41.324	0	50	83	70	130
Diethylphthalate	1	42.425	0	50	85	70	130
4-Nitroaniline	1	41.219	0	50	82	50	130
Atrazine	1	42.325	0	50	85	50	130
4,6-Dinitro-2-methylphenol	1	30.4323	0	100	30*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95954

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.1095	0	50	70	50	130
1,2-Diphenylhydrazine	1	46.1213	0	50	92	70	130
4-Bromophenyl-phenylether	1	41.8279	0	50	84	70	130
Hexachlorobenzene	1	38.7418	0	50	77	70	130
N-Octadecane	1	53.183	0	50	106	70	130
Pentachlorophenol	1	85.1561	0	100	85	40	130
Phenanthrene	1	42.2034	0	50	84	70	130
Anthracene	1	41.1531	0	50	82	70	130
Carbazole	1	41.1213	0	50	82	70	130
Di-n-butylphthalate	1	47.2562	0	50	95	70	130
Fluoranthene	1	44.5524	0	50	89	70	130
Pyrene	1	50.2543	4.4887	50	92	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	51.175	0	50	102	50	130
3,3'-Dichlorobenzidine	1	31.8651	0	50	64	10	130
Benzo[a]anthracene	1	39.7631	0	50	80	70	130
Chrysene	1	44.224	0	50	88	60	130
bis(2-Ethylhexyl)phthalate	1	52.3883	5.0094	50	95	70	130
Di-n-octylphthalate	1	53.2208	0	50	106	70	130
Benzo[b]fluoranthene	1	47.0747	2.3346	50	89	70	130
Benzo[k]fluoranthene	1	41.6978	0	50	83	70	130
Benzo[a]pyrene	1	41.3782	0	50	83	70	130
Indeno[1,2,3-cd]pyrene	1	41.6678	0	50	83	70	130
Dibenzo[a,h]anthracene	1	40.5377	0	50	81	60	130
Benzo[g,h,i]perylene	1	38.7157	0	50	77	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95954

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110350.D	AD27946-001(MSD)	12/22/2021 10:41:00 P
Non Spike(If applicable):	7M118666.D	AD27946-001	12/22/2021 11:04:00 A
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.079	0	50	32	25	150
Pyridine	1	34.7508	0	50	70	1	150
N-Nitrosodimethylamine	1	35.0454	0	50	70	50	130
Benzaldehyde	1	36.8274	0	50	74	20	220
Aniline	1	23.8071	0	50	48	20	150
Pentachloroethane	1	32.3469	0	50	65	50	130
bis(2-Chloroethyl)ether	1	33.3463	0	50	67	50	130
Phenol	1	71.2433	0	100	71	20	150
2-Chlorophenol	1	71.7294	0	100	72	50	130
N-Decane	1	32.6127	0	50	65	20	130
1,3-Dichlorobenzene	1	32.1159	0	50	64	60	130
1,4-Dichlorobenzene	1	31.7743	0	50	64	60	130
1,2-Dichlorobenzene	1	31.3787	0	50	63	50	130
Benzyl alcohol	1	35.7729	0	50	72	20	130
bis(2-chloroisopropyl)ether	1	33.4662	0	50	67	40	130
2-Methylphenol	1	67.5382	0	100	68	50	130
Acetophenone	1	34.9868	0	50	70	50	130
Hexachloroethane	1	28.7175	0	50	57	50	130
N-Nitroso-di-n-propylamine	1	36.8024	0	50	74	40	130
3&4-Methylphenol	1	70.56	0	100	71	70	130
Nitrobenzene	1	39.875	0	50	80	70	130
Isophorone	1	35.6655	0	50	71	60	130
2-Nitrophenol	1	81.8897	0	100	82	70	130
2,4-Dimethylphenol	1	69.5517	0	100	70	40	130
Benzoic Acid	1	60.199	0	100	60	20	130
bis(2-Chloroethoxy)methane	1	35.6658	0	50	71	60	130
2,4-Dichlorophenol	1	67.6213	0	100	68*	70	130
1,2,4-Trichlorobenzene	1	33.7153	0	50	67	50	130
Naphthalene	1	32.3431	0	50	65	50	130
4-Chloroaniline	1	26.1431	0	50	52	10	150
Hexachlorobutadiene	1	31.0216	0	50	62	60	130
Caprolactam	1	52.8568	0	50	106	50	130
4-Chloro-3-methylphenol	1	76.3759	0	100	76	50	130
2-Methylnaphthalene	1	33.427	0	50	67*	70	130
1-Methylnaphthalene	1	34.0307	0	50	68*	70	130
1,1'-Biphenyl	1	32.3244	0	50	65	60	130
1,2,4,5-Tetrachlorobenzene	1	31.1486	0	50	62*	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2,4,6-Trichlorophenol	1	69.2918	0	100	69*	70	130
2,4,5-Trichlorophenol	1	72.1879	0	100	72	70	130
2-Chloronaphthalene	1	33.2876	0	50	67*	70	130
1,4-Dimethylnaphthalene	1	33.2971	0	50	67*	70	130
Diphenyl Ether	1	32.7307	0	50	65*	70	130
2-Nitroaniline	1	42.4014	0	50	85	50	130
Coumarin	1	32.9947	0	50	66*	70	130
Acenaphthylene	1	32.8391	0	50	66*	70	130
Dimethylphthalate	1	34.362	0	50	69*	70	130
2,6-Dinitrotoluene	1	32.7238	0	50	65*	70	130
Acenaphthene	1	33.8016	0	50	68	50	130
3-Nitroaniline	1	36.9517	0	50	74	70	130
2,4-Dinitrophenol	1	12.8238	0	100	13*	20	150
Dibenzofuran	1	33.5935	0	50	67*	70	130
2,4-Dinitrotoluene	1	43.6557	0	50	87	40	130
4-Nitrophenol	1	76.0045	0	100	76	20	150
2,3,4,6-Tetrachlorophenol	1	64.9978	0	100	65*	70	130
Fluorene	1	33.3199	0	50	67	50	130
4-Chlorophenyl-phenylether	1	33.5001	0	50	67*	70	130
Diethylphthalate	1	34.5461	0	50	69*	70	130
4-Nitroaniline	1	34.2917	0	50	69	50	130
Atrazine	1	37.5687	0	50	75	50	130
4,6-Dinitro-2-methylphenol	1	19.6674	0	100	20*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95954

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	28.7296	0	50	57	50	130
1,2-Diphenylhydrazine	1	41.4189	0	50	83	70	130
4-Bromophenyl-phenylether	1	34.5285	0	50	69*	70	130
Hexachlorobenzene	1	32.2014	0	50	64*	70	130
N-Octadecane	1	46.9384	0	50	94	70	130
Pentachlorophenol	1	69.0954	0	100	69	40	130
Phenanthrene	1	35.3589	0	50	71	70	130
Anthracene	1	33.8429	0	50	68*	70	130
Carbazole	1	36.0331	0	50	72	70	130
Di-n-butylphthalate	1	39.9848	0	50	80	70	130
Fluoranthene	1	36.3096	0	50	73	70	130
Pyrene	1	42.264	4.4887	50	76	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	43.4028	0	50	87	50	130
3,3'-Dichlorobenzidine	1	30.7778	0	50	62	10	130
Benzo[a]anthracene	1	33.438	0	50	67*	70	130
Chrysene	1	36.8544	0	50	74	60	130
bis(2-Ethylhexyl)phthalate	1	43.5606	5.0094	50	77	70	130
Di-n-octylphthalate	1	43.5913	0	50	87	70	130
Benzo[b]fluoranthene	1	39.0206	2.3346	50	73	70	130
Benzo[k]fluoranthene	1	33.7698	0	50	68*	70	130
Benzo[a]pyrene	1	34.3551	0	50	69*	70	130
Indeno[1,2,3-cd]pyrene	1	34.3025	0	50	69*	70	130
Dibenzo[a,h]anthracene	1	33.3156	0	50	67	60	130
Benzo[g,h,i]perylene	1	32.3795	0	50	65*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95954

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110350.D	AD27946-001(MSD)	12/22/2021 10:41:00 P
Duplicate(If applicable):	9M110349.D	AD27946-001(MS)	12/22/2021 10:18:00 P
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	16.079	17.6559	9.3	30
Pyridine	1	34.7508	38.7886	11	30
N-Nitrosodimethylamine	1	35.0454	41.4436	17	30
Benzaldehyde	1	36.8274	40.6856	10	30
Aniline	1	23.8071	28.4586	18	30
Pentachloroethane	1	32.3469	36.8329	13	30
bis(2-Chloroethyl)ether	1	33.3463	39.4662	17	30
Phenol	1	71.2433	86.4801	19	40
2-Chlorophenol	1	71.7294	86.4004	19	40
N-Decane	1	32.6127	35.9756	9.8	30
1,3-Dichlorobenzene	1	32.1159	38.1853	17	30
1,4-Dichlorobenzene	1	31.7743	37.1628	16	40
1,2-Dichlorobenzene	1	31.3787	37.0383	17	30
Benzyl alcohol	1	35.7729	43.8576	20	30
bis(2-chloroisopropyl)ether	1	33.4662	39.5454	17	30
2-Methylphenol	1	67.5382	81.3631	19	40
Acetophenone	1	34.9868	40.2745	14	30
Hexachloroethane	1	28.7175	34.401	18	30
N-Nitroso-di-n-propylamine	1	36.8024	43.754	17	40
3&4-Methylphenol	1	70.56	84.7579	18	30
Nitrobenzene	1	39.875	47.0178	16	30
Isophorone	1	35.6655	41.7648	16	30
2-Nitrophenol	1	81.8897	97.783	18	30
2,4-Dimethylphenol	1	69.5517	86.2906	21	40
Benzoic Acid	1	60.199	82.691	31*	30
bis(2-Chloroethoxy)methane	1	35.6658	42.2938	17	30
2,4-Dichlorophenol	1	67.6213	83.1248	21	30
1,2,4-Trichlorobenzene	1	33.7153	40.6215	19	40
Naphthalene	1	32.3431	38.7265	18	40
4-Chloroaniline	1	26.1431	31.8978	20	30
Hexachlorobutadiene	1	31.0216	37.0821	18	30
Caprolactam	1	52.8568	60.8229	14	30
4-Chloro-3-methylphenol	1	76.3759	91.9493	19	40
2-Methylnaphthalene	1	33.427	40.3578	19	30
1-Methylnaphthalene	1	34.0307	38.8999	13	30
1,1'-Biphenyl	1	32.3244	37.426	15	30
1,2,4,5-Tetrachlorobenzene	1	31.1486	36.0201	15	30
Hexachlorocyclopentadiene	1	0	0	NA	30
2,4,6-Trichlorophenol	1	69.2918	82.338	17	30
2,4,5-Trichlorophenol	1	72.1879	86.7873	18	30
2-Chloronaphthalene	1	33.2876	39.9068	18	30
1,4-Dimethylnaphthalene	1	33.2971	38.3085	14	30
Diphenyl Ether	1	32.7307	38.3858	16	30
2-Nitroaniline	1	42.4014	49.5423	16	30
Coumarin	1	32.9947	39.1105	17	30
Acenaphthylene	1	32.8391	39.9113	19	30
Dimethylphthalate	1	34.362	41.8044	20	30
2,6-Dinitrotoluene	1	32.7238	38.4495	16	30
Acenaphthene	1	33.8016	41.068	19	40
3-Nitroaniline	1	36.9517	49.7479	30	30
2,4-Dinitrophenol	1	12.8238	24.2148	62*	30
Dibenzofuran	1	33.5935	40.1526	18	30
2,4-Dinitrotoluene	1	43.6557	41.962	4	40
4-Nitrophenol	1	76.0045	90.6339	18	40
2,3,4,6-Tetrachlorophenol	1	64.9978	79.4915	20	30
Fluorene	1	33.3199	39.7849	18	40
4-Chlorophenyl-phenylether	1	33.5001	41.324	21	30
Diethylphthalate	1	34.5461	42.425	20	30
4-Nitroaniline	1	34.2917	41.219	18	30
Atrazine	1	37.5687	42.325	12	30
4,6-Dinitro-2-methylphenol	1	19.6674	30.4323	43*	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95954

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	28.7296	35.1095	20	30
1,2-Diphenylhydrazine	1	41.4189	46.1213	11	30
4-Bromophenyl-phenylether	1	34.5285	41.8279	19	30
Hexachlorobenzene	1	32.2014	38.7418	18	30
N-Octadecane	1	46.9384	53.183	12	30
Pentachlorophenol	1	69.0954	85.1561	21	40
Phenanthrene	1	35.3589	42.2034	18	30
Anthracene	1	33.8429	41.1531	19	30
Carbazole	1	36.0331	41.1213	13	30
Di-n-butylphthalate	1	39.9848	47.2562	17	30
Fluoranthene	1	36.3096	44.5524	20	30
Pyrene	1	42.264	50.2543	17	40
Benzidine	1	0	0	NA	30
Butylbenzylphthalate	1	43.4028	51.175	16	40
3,3'-Dichlorobenzidine	1	30.7778	31.8651	3.5	30
Benzo[a]anthracene	1	33.438	39.7631	17	30
Chrysene	1	36.8544	44.224	18	30
bis(2-Ethylhexyl)phthalate	1	43.5606	52.3883	18	30
Di-n-octylphthalate	1	43.5913	53.2208	20	30
Benzo[b]fluoranthene	1	39.0206	47.0747	19	30
Benzo[k]fluoranthene	1	33.7698	41.6978	21	30
Benzo[a]pyrene	1	34.3551	41.3782	19	30
Indeno[1,2,3-cd]pyrene	1	34.3025	41.6678	19	30
Dibenzo[a,h]anthracene	1	33.3156	40.5377	20	30
Benzo[g,h,i]perylene	1	32.3795	38.7157	18	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95954
Blank Data File: 7M118661.D
Matrix: Soil

Blank Analysis Date: 12/22/21 09:02
Blank Extraction Date: 12/21/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD27810-001	7M118664.D	12/22/21 10:15
AD27810-002	7M118665.D	12/22/21 10:40
AD27946-001(MSD	9M110350.D	12/22/21 22:41
AD27946-001(MS)	9M110349.D	12/22/21 22:18
AD27946-001	7M118666.D	12/22/21 11:04
SMB95954(MS)	10M88963.D	12/21/21 14:14

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109528.D
Analysis Date: 11/12/21 08:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.119 to 10.130 min

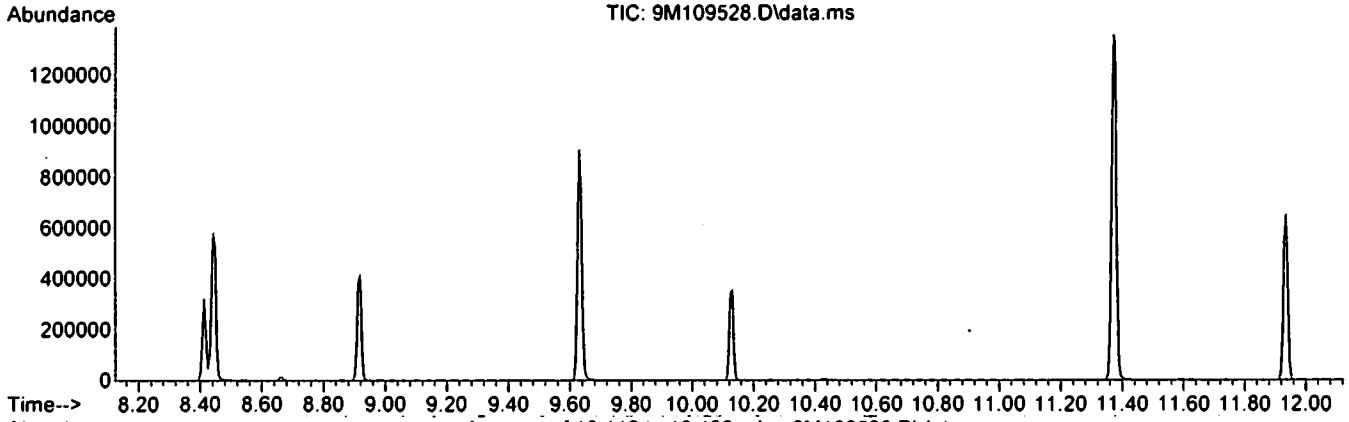
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

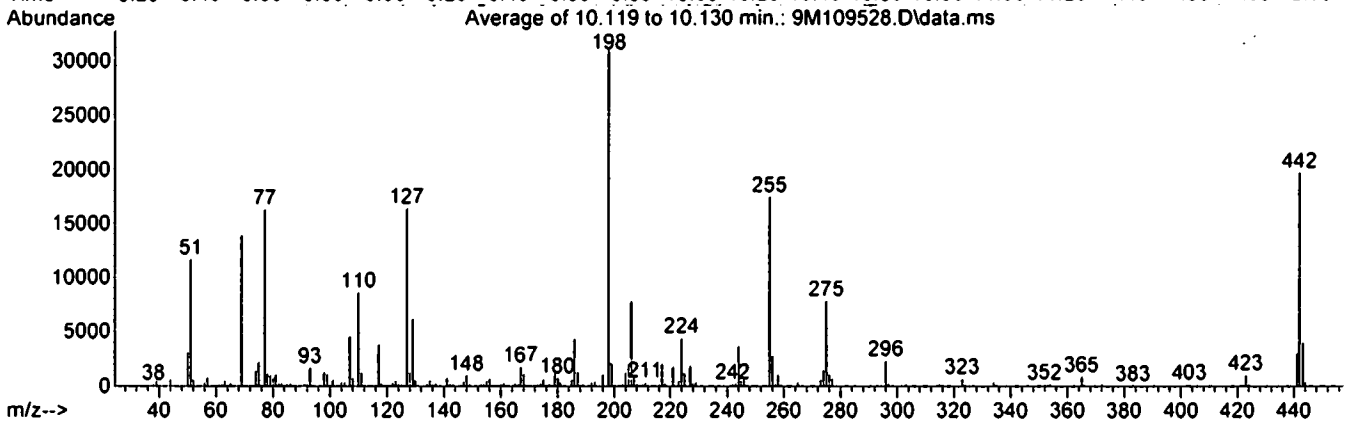
Data File	Sample Number	Analysis Date:
9M109529.D	CAL BNA@50PPM	11/12/21 08:27
9M109530.D	CAL BNA@50PPM	11/12/21 10:07
9M109531.D	CAL BNA@196PP	11/12/21 10:34
9M109532.D	CAL BNA@160PP	11/12/21 10:57
9M109533.D	CAL BNA@120PP	11/12/21 11:20
9M109534.D	CAL BNA@80PPM	11/12/21 11:43
9M109535.D	CAL BNA@10PPM	11/12/21 12:06
9M109536.D	CAL BNA@2PPM	11/12/21 12:29
9M109537.D	CAL BNA@20PPM	11/12/21 12:52
9M109538.D	CAL BNA@0.5PP	11/12/21 13:15
9M109539.D	ICV BNA@50PPM	11/12/21 13:39

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-12-21\
Data File : 9M109528.D
Acq On : 12 Nov 2021 8:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1110.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Nov 10 11:23:34 2021





Spectrum Information: Average of 10.119 to 10.130 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M118592.D
Instrument: GCMS 7 **Analysis Date:** 12/20/21 08:55
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.155 to 10.161 min

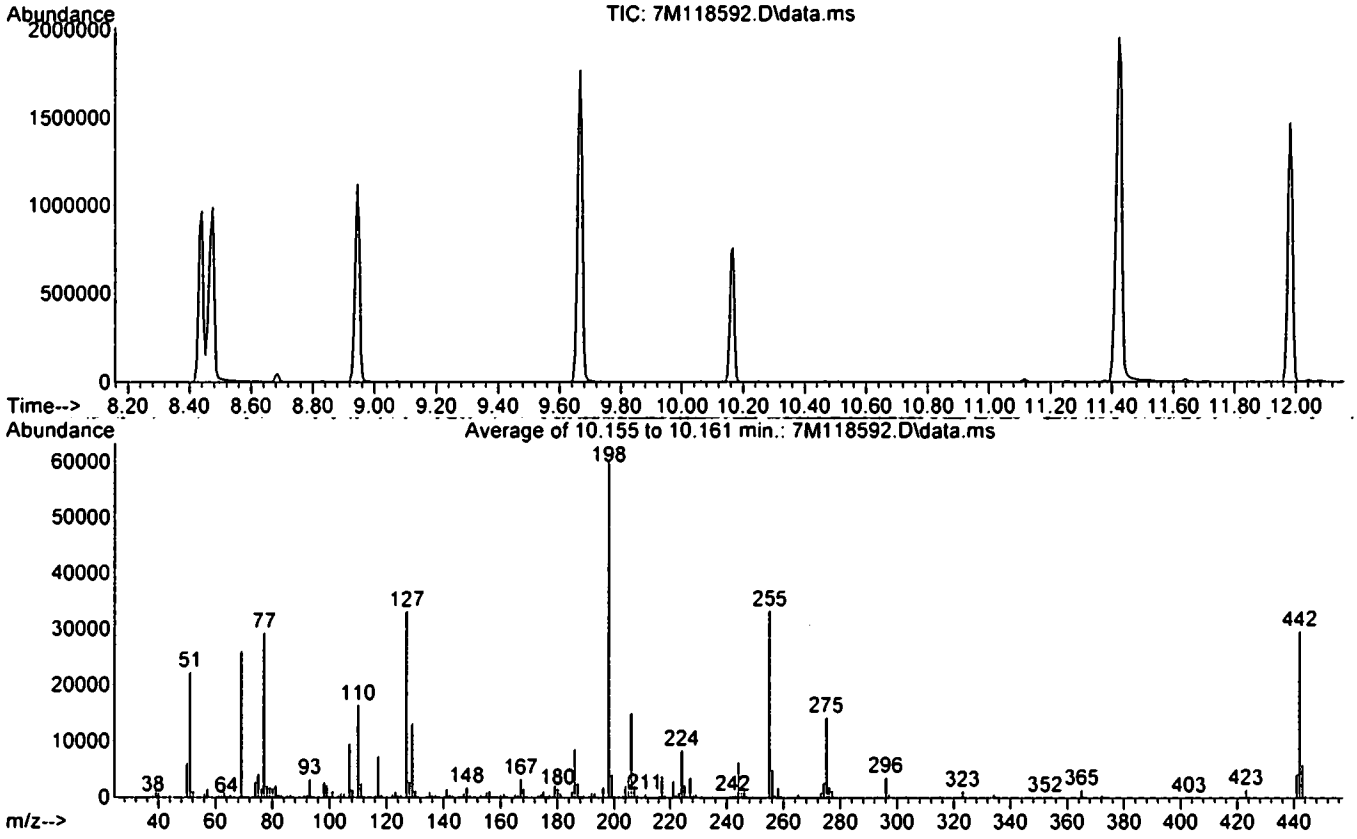
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.0	22325	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	26092	PASS
70	69	0.00	2	0.4	98	PASS
127	198	40	60	55.0	33188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60372	PASS
199	198	5	9	6.8	4112	PASS
275	198	10	30	23.7	14291	PASS
365	198	1	100	2.5	1496	PASS
441	443	0.01	100	71.9	4256	PASS
442	198	40	100	49.2	29700	PASS
443	442	17	23	19.9	5915	PASS

Data File	Sample Number	Analysis Date:
7M118593.D	CAL BNA@2PPM	12/20/21 09:25
7M118594.D	BNA@10PPM	12/20/21 09:48
7M118595.D	CAL BNA@196PP	12/20/21 10:12
7M118596.D	CAL BNA@20PPM	12/20/21 10:40
7M118597.D	CAL BNA@10PPM	12/20/21 11:06
7M118598.D	CAL BNA@160PP	12/20/21 11:30
7M118599.D	CAL BNA@120PP	12/20/21 11:55
7M118600.D	CAL BNA@80PPM	12/20/21 12:19
7M118601.D	CAL BNA@0.5PP	12/20/21 12:46
7M118602.D	CAL BNA@50PPM	12/20/21 13:10
7M118603.D	ICV BNA@50PPM	12/20/21 13:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-20-21\
Data File : 7M118592.D
Acq On : 20 Dec 2021 8:55
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1117.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Nov 17 14:43:55 2021



Spectrum Information: Average of 10.155 to 10.161 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.0	22325	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	26092	PASS
70	69	0.00	2	0.4	98	PASS
127	198	40	60	55.0	33188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60372	PASS
199	198	5	9	6.8	4112	PASS
275	198	10	30	23.7	14291	PASS
365	198	1	100	2.5	1496	PASS
441	443	0.01	100	71.9	4256	PASS
442	198	40	100	49.2	29700	PASS
443	442	17	23	19.9	5915	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M88942.D
Analysis Date: 12/20/21 10:59
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.960 to 9.966 min

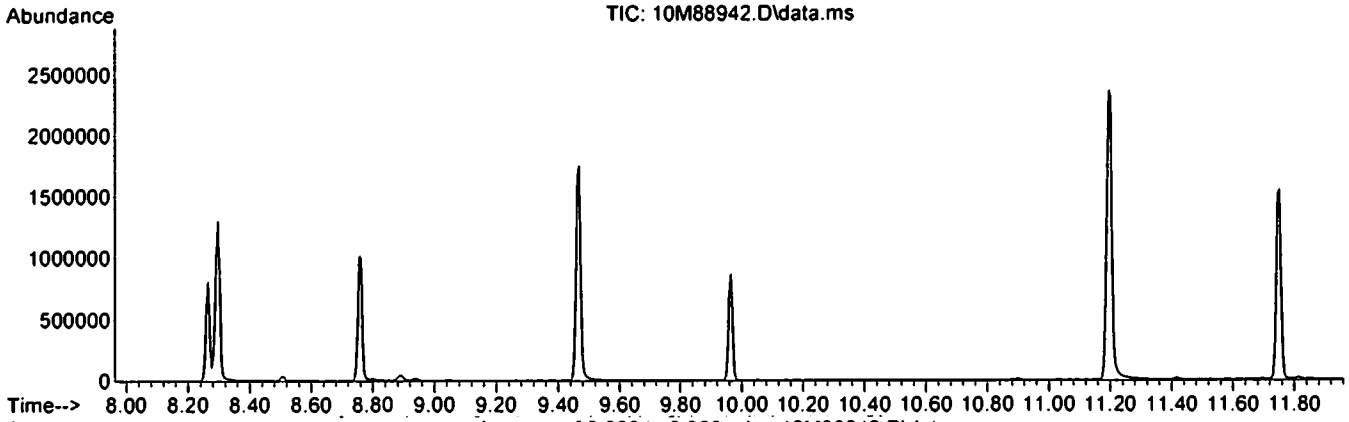
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	36.9	36812	PASS
68	69	0.00	2	1.6	617	PASS
69	198	0.00	100	37.9	37860	PASS
70	69	0.00	2	0.6	244	PASS
127	198	40	60	50.0	49968	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99860	PASS
199	198	5	9	6.9	6889	PASS
275	198	10	30	22.3	22220	PASS
365	198	1	100	2.6	2580	PASS
441	443	0.01	100	73.0	8554	PASS
442	198	40	100	58.4	58304	PASS
443	442	17	23	20.1	11717	PASS

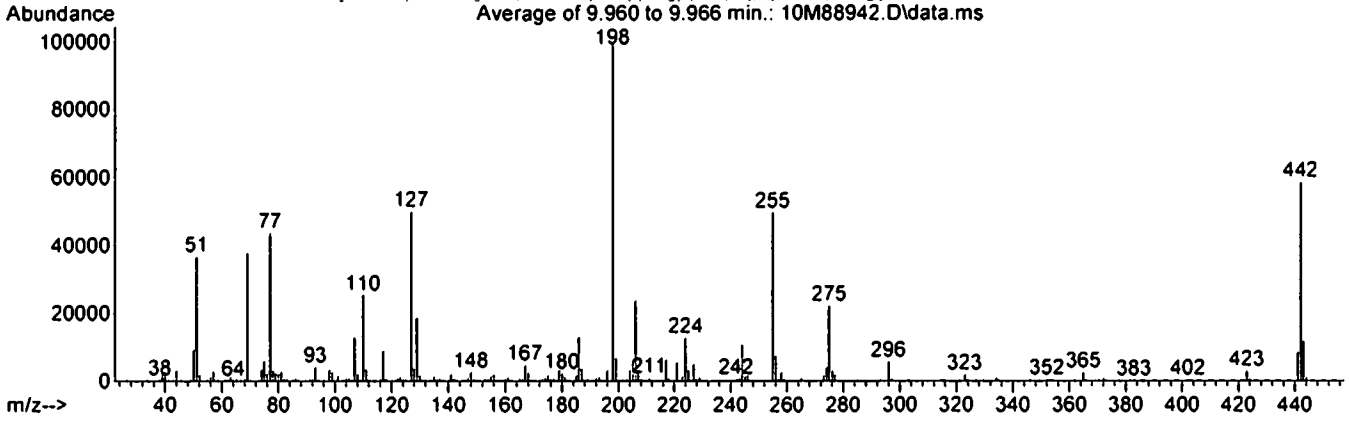
Data File	Sample Number	Analysis Date:
10M88943.D	CAL BNA@10PPM	12/20/21 11:21
10M88944.D	CAL BNA@2PPM	12/20/21 11:43
10M88945.D	CAL BNA@196PP	12/20/21 12:17
10M88946.D	CAL BNA@160PP	12/20/21 12:39
10M88947.D	CAL BNA@120PP	12/20/21 13:01
10M88948.D	CAL BNA@80PPM	12/20/21 13:24
10M88949.D	CAL BNA@20PPM	12/20/21 13:46
10M88950.D	CAL BNA@0.5PP	12/20/21 14:08
10M88951.D	CAL BNA@50PPM	12/20/21 14:31
10M88952.D	ICV BNA@50PPM	12/20/21 14:53

Data Path : G:\GcMsData\2021\GCMS_10\Data\12-20-21\
Data File : 10M88942.D
Acq On : 20 Dec 2021 10:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_1220.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Dec 21 08:21:09 2021





Spectrum Information: Average of 9.960 to 9.966 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.9	36812	PASS
68	69	0.00	2	1.6	617	PASS
69	198	0.00	100	37.9	37860	PASS
70	69	0.00	2	0.6	244	PASS
127	198	40	60	50.0	49968	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99860	PASS
199	198	5	9	6.9	6889	PASS
275	198	10	30	22.3	22220	PASS
365	198	1	100	2.6	2580	PASS
441	443	0.01	100	73.0	8554	PASS
442	198	40	100	58.4	58304	PASS
443	442	17	23	20.1	11717	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M88953.D
Analysis Date: 12/21/21 09:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.960 to 9.966 min

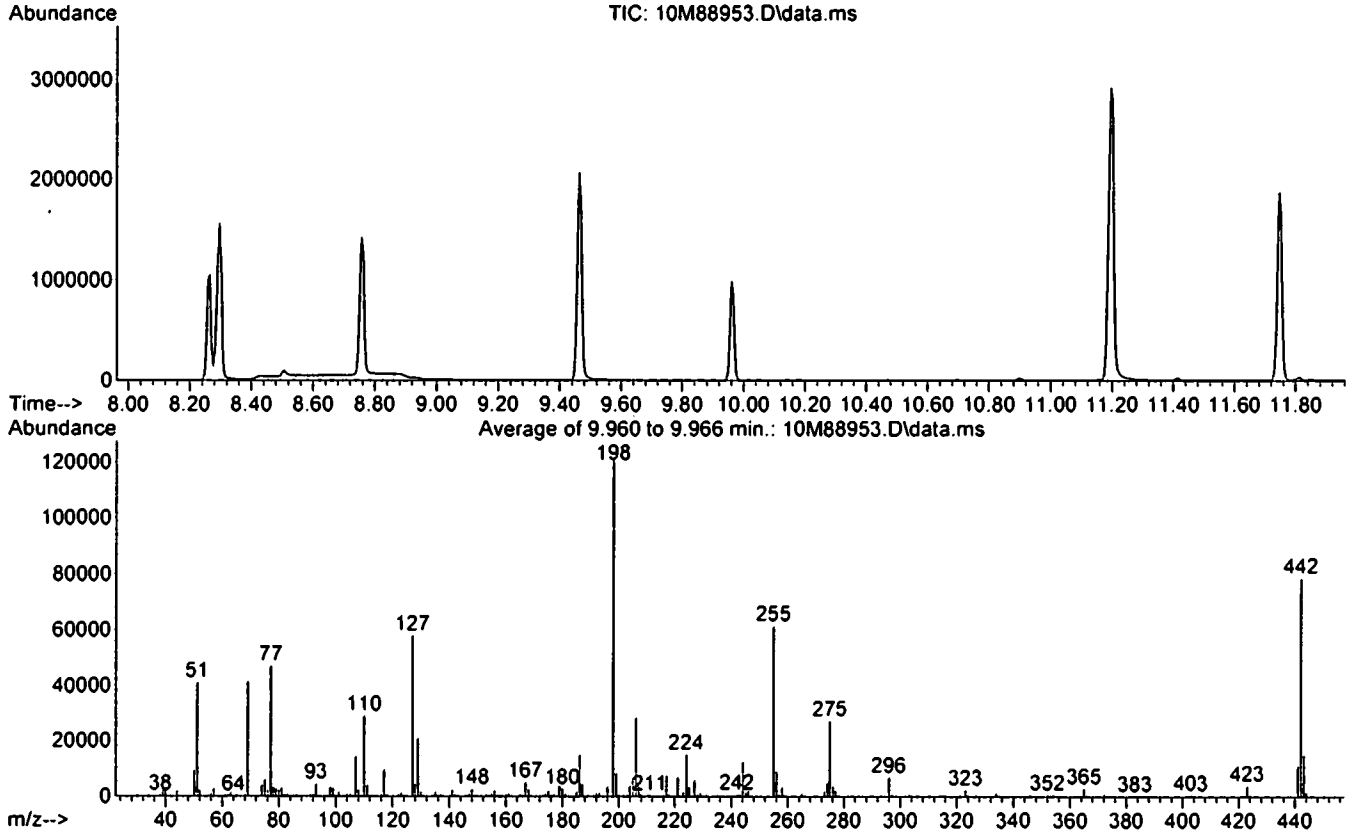
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.9	41292	PASS
68	69	0.00	2	1.8	736	PASS
69	198	0.00	100	34.2	41640	PASS
70	69	0.00	2	0.6	243	PASS
127	198	40	60	47.8	58116	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	121656	PASS
199	198	5	9	6.8	8322	PASS
275	198	10	30	22.5	27424	PASS
365	198	1	100	2.5	3089	PASS
441	443	0.01	100	73.7	11109	PASS
442	198	40	100	64.6	78580	PASS
443	442	17	23	19.2	15082	PASS

Data File	Sample Number	Analysis Date:
10M88954.D	CAL BNA@50PPM	12/21/21 09:29
10M88955.D	SMB95917	12/21/21 10:05
10M88956.D	WMB95951	12/21/21 10:27
10M88957.D	AD27908-009	12/21/21 10:49
10M88958.D	AD27908-010	12/21/21 11:12
10M88959.D	AD27908-011	12/21/21 11:34
10M88960.D	AD27908-012	12/21/21 11:56
10M88961.D	SMB95950(MS)	12/21/21 13:29
10M88962.D	SMB95953(MS)	12/21/21 13:52
10M88963.D	SMB95954(MS)	12/21/21 14:14
10M88964.D	SMB95950	12/21/21 14:36
10M88965.D	SMB95953	12/21/21 14:58
10M88966.D	SMB95954	12/21/21 15:21

Data Path : G:\GcMsData\2021\GCMS_10\Data\12-21-21\
Data File : 10M88953.D
Acq On : 21 Dec 2021 9:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_1220.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Dec 21 08:21:09 2021



Spectrum Information: Average of 9.960 to 9.966 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.9	41292	PASS
68	69	0.00	2	1.8	736	PASS
69	198	0.00	100	34.2	41640	PASS
70	69	0.00	2	0.6	243	PASS
127	198	40	60	47.8	58116	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	121656	PASS
199	198	5	9	6.8	8322	PASS
275	198	10	30	22.5	27424	PASS
365	198	1	100	2.5	3089	PASS
441	443	0.01	100	73.7	11109	PASS
442	198	40	100	64.6	78580	PASS
443	442	17	23	19.2	15082	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M118658.D
Analysis Date: 12/22/21 07:49
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.161 to 10.172 min

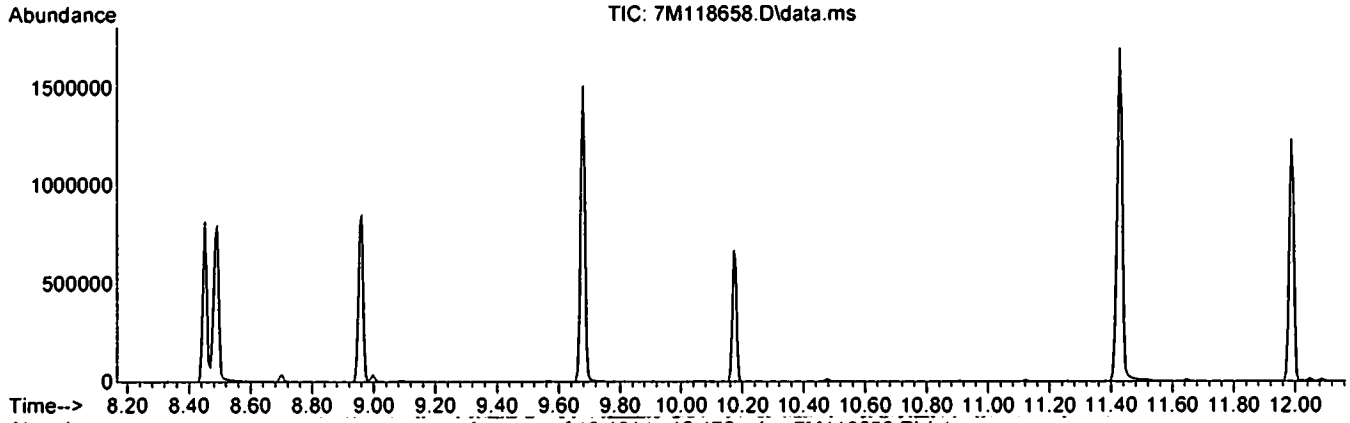
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	36.0	14433	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.3	16979	PASS
70	69	0.00	2	0.4	65	PASS
127	198	40	60	54.7	21938	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	40103	PASS
199	198	5	9	7.0	2794	PASS
275	198	10	30	24.0	9632	PASS
365	198	1	100	2.2	900	PASS
441	443	0.01	100	73.3	2690	PASS
442	198	40	100	47.5	19045	PASS
443	442	17	23	19.3	3672	PASS

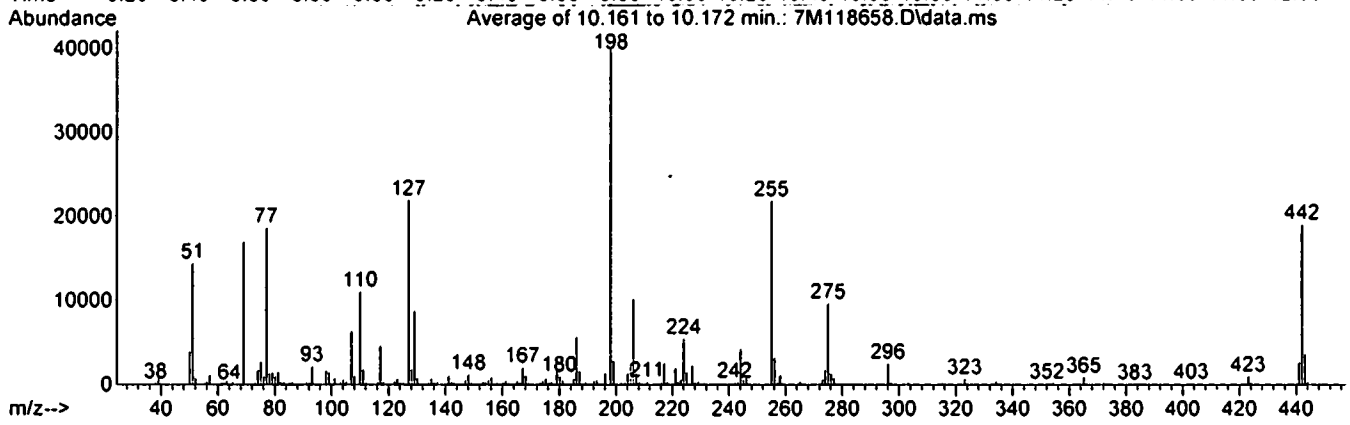
Data File	Sample Number	Analysis Date:
7M118659.D	CAL BNA@50PPM	12/22/21 08:14
7M118660.D	SMB95953	12/22/21 08:38
7M118661.D	SMB95954	12/22/21 09:02
7M118662.D	AD27953-001	12/22/21 09:27
7M118663.D	AD27953-002	12/22/21 09:51
7M118664.D	AD27810-001	12/22/21 10:15
7M118665.D	AD27810-002	12/22/21 10:40
7M118666.D	AD27946-001	12/22/21 11:04
7M118667.D	AD27946-004	12/22/21 11:28
7M118668.D	AD27946-007	12/22/21 11:52
7M118669.D	AD27946-010	12/22/21 12:17
7M118670.D	AD27946-013	12/22/21 12:41
7M118671.D	AD27904-018	12/22/21 13:05
7M118672.D	AD27904-016	12/22/21 13:30
7M118673.D	AD27904-026(30X)	12/22/21 13:54
7M118674.D	AD27765-013(10X)	12/22/21 14:18
7M118675.D	AD27893-006	12/22/21 14:43
7M118676.D	SMB95972	12/22/21 15:07
7M118677.D	AD27908-007	12/22/21 15:31
7M118678.D	AD27908-008	12/22/21 15:56
7M118679.D	AD27927-005	12/22/21 16:20
7M118680.D	AD27927-007	12/22/21 16:44
7M118681.D	AD27928-013	12/22/21 17:08
7M118682.D	AD27928-014	12/22/21 17:32
7M118683.D	AD27928-042	12/22/21 17:56
7M118684.D	AD27904-016(MS)	12/22/21 18:20
7M118685.D	AD27904-016(MSD	12/22/21 18:45
7M118686.D	AD27977-003	12/22/21 19:09
7M118687.D	AD27977-006	12/22/21 19:34
7M118688.D	AD27977-006	12/22/21 20:22

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-22-21\
Data File : 7M118658.D
Acq On : 22 Dec 2021 7:49
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1220.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Dec 20 13:43:00 2021





Spectrum Information: Average of 10.161 to 10.172 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.0	14433	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.3	16979	PASS
70	69	0.00	2	0.4	65	PASS
127	198	40	60	54.7	21938	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	40103	PASS
199	198	5	9	7.0	2794	PASS
275	198	10	30	24.0	9632	PASS
365	198	1	100	2.2	900	PASS
441	443	0.01	100	73.3	2690	PASS
442	198	40	100	47.5	19045	PASS
443	442	17	23	19.3	3672	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M110329.D
Analysis Date: 12/22/21 14:36
Method: EPA 8270E

Tune Scan/Time Range: Scan 1306

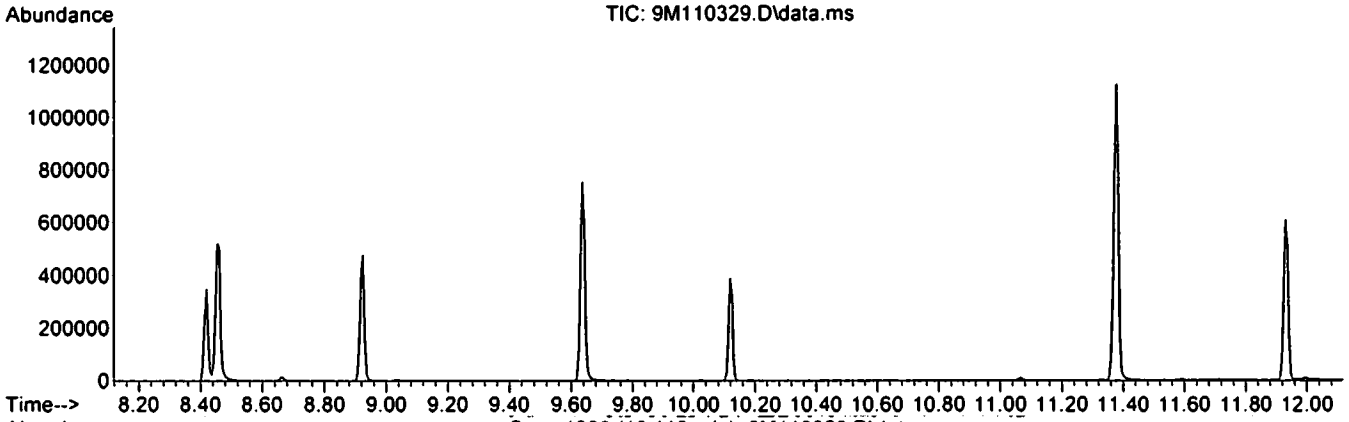
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.0	18152	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.5	20608	PASS
70	69	0.00	2	0.9	177	PASS
127	198	40	60	52.8	23376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44288	PASS
199	198	5	9	6.8	3008	PASS
275	198	10	30	24.2	10712	PASS
365	198	1	100	3.4	1514	PASS
441	443	0.01	100	80.5	4172	PASS
442	198	40	100	57.8	25584	PASS
443	442	17	23	20.3	5185	PASS

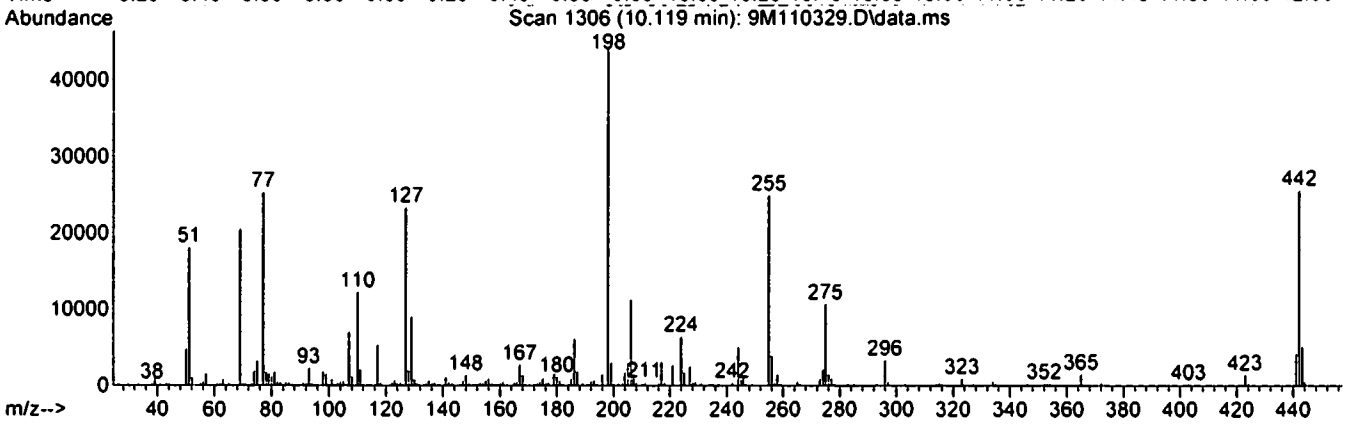
Data File	Sample Number	Analysis Date:
9M110330.D	BNA@50PPM	12/22/21 14:55
9M110331.D	CAL BNA@50PPM	12/22/21 15:22
9M110332.D	AD27983-001	12/22/21 15:45
9M110333.D	AD27844-001	12/22/21 16:08
9M110334.D	AD27822-001(3X)	12/22/21 16:31
9M110335.D	AD27918-001	12/22/21 16:54
9M110336.D	AD27925-002	12/22/21 17:17
9M110337.D	AD27925-004(5X)	12/22/21 17:40
9M110338.D	AD27908-002(3X)	12/22/21 18:04
9M110339.D	AD27908-005(5X)	12/22/21 18:27
9M110340.D	AD27908-004	12/22/21 18:50
9M110341.D	AD27928-041	12/22/21 19:13
9M110342.D	AD27928-028	12/22/21 19:36
9M110343.D	AD27928-027(10X)	12/22/21 19:59
9M110344.D	SMB95963	12/22/21 20:22
9M110345.D	SMB95972	12/22/21 20:46
9M110346.D	AD27924-004	12/22/21 21:09
9M110347.D	AD27924-004(MSD	12/22/21 21:32
9M110348.D	AD27924-004(MS)	12/22/21 21:55
9M110349.D	AD27946-001(MS)	12/22/21 22:18
9M110350.D	AD27946-001(MSD	12/22/21 22:41
9M110351.D	AD27765-004(3X)(	12/22/21 23:05
9M110352.D	AD27765-013(30X)	12/22/21 23:28
9M110353.D	AD27765-013(30X)	12/22/21 23:51
9M110354.D	AD27765-013(30X)	12/23/21 00:14
9M110355.D	AD27792-003(10X)	12/23/21 00:37
9M110356.D	AD27792-008(10X)	12/23/21 01:00
9M110357.D	AD27755-009(3X)	12/23/21 01:24

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-2221\
Data File : 9M110329.D
Acq On : 22 Dec 2021 14:36
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1112.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Nov 12 13:36:55 2021





Spectrum Information: Scan 1306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	18152	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.5	20608	PASS
70	69	0.00	2	0.9	177	PASS
127	198	40	60	52.8	23376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44288	PASS
199	198	5	9	6.8	3008	PASS
275	198	10	30	24.2	10712	PASS
365	198	1	100	3.4	1514	PASS
441	443	0.01	100	80.5	4172	PASS
442	198	40	100	57.8	25584	PASS
443	442	17	23	20.3	5185	PASS

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Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.9624	1.0385	0.9669	0.9852	1.0105	0.9840	0.9623	1.0374	1.2738	1.02	2.79	0.999	0.999	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0486	1.9170	1.8713	2.0691	2.2124	2.2284	2.2238	2.3593	----	2.12	3.24	0.998	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5844	1.4491	1.4539	1.5611	1.6550	1.6441	1.6192	1.7263	----	1.59	3.19	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2576	2.2947	2.1426	2.2439	2.3506	2.3554	2.3159	2.4717	----	2.30	4.73	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9817	2.0459	1.9007	1.9986	2.0301	1.9700	1.8467	1.8743	----	1.96	5.56	0.998	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	3.6724	3.8218	3.6170	3.8109	3.8797	3.8028	3.7243	3.9384	5.9717	4.03	5.65	0.999	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8220	0.8160	0.8000	0.8246	0.8651	0.8584	0.8408	0.8950	----	0.840	5.69	0.998	0.999	3.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4993	2.5870	2.4254	2.5484	2.6034	2.5521	2.4368	2.6078	3.7688	2.67	5.71	0.998	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9070	2.7980	2.7604	2.9117	3.0575	3.0437	2.9845	3.1500	----	2.95	5.60	0.999	0.999	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4390	3.4392	3.2937	3.4793	3.5934	3.5717	3.4979	3.7009	----	3.50	5.61	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4405	2.3875	2.3479	2.4739	2.5552	2.5234	2.4667	2.6111	----	2.48	5.75	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.4001	2.4737	2.3574	2.4726	2.5051	2.4558	2.3701	2.4693	----	2.44	5.79	0.999	0.999	2.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	2.6183	2.7799	2.5364	2.6789	2.7404	2.7154	2.6342	2.7741	----	2.68	5.88	0.999	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.5135	1.5618	1.4460	1.5151	1.5577	1.5799	1.5269	1.6228	----	1.54	5.94	0.998	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.4241	1.4528	1.3670	1.4209	1.4569	1.4820	1.4296	1.5216	----	1.44	6.07	0.998	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9354	0.7923	0.8570	0.8927	0.9735	0.9931	0.9729	1.0312	----	0.931	6.04	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5245	1.6342	1.5016	1.5422	1.5529	1.5613	1.5181	1.6110	----	1.56	6.15	0.999	0.999	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2790	1.1876	1.1809	1.2453	1.3187	1.3446	1.3138	1.3888	1.8577	1.35	6.12	0.999	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8684	1.9327	1.8087	1.8489	1.9011	1.8899	1.7528	1.7972	----	1.85	6.25	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5577	0.5501	0.5271	0.5475	0.5722	0.5824	0.5669	0.6033	----	0.563	6.34	0.999	1.00	4.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0350	0.9675	0.9599	1.0188	1.0591	1.0389	0.9623	0.9938	1.5420	1.06	6.25	0.998	0.999	17	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3738	1.2322	1.2398	1.3105	1.4009	1.3982	1.3041	1.3519	1.8559	1.39	6.25	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Qua	0.1282	0.1135	0.1167	0.1295	0.1464	0.1518	0.1511	0.1602	----	0.137	6.38	0.997	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Qua	0.3349	0.2940	0.3027	0.3287	0.3598	0.3626	0.3578	0.3710	----	0.339	6.40	0.999	1.00	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6882	0.6448	0.6339	0.6649	0.7011	0.6990	0.6882	0.7195	----	0.680	6.58	0.999	0.999	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1380	0.1026	0.1181	0.1310	0.1649	0.1706	0.1717	0.1775	----	0.147	6.64	0.995	0.999	19	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3471	0.3040	0.3130	0.3362	0.3515	0.3547	0.3509	0.3663	0.4496	0.353	6.66	0.999	1.00	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1785	----	0.1050	0.1306	0.2381	0.2357	0.2493	0.2565	----	0.199	6.72	0.997	0.998	31		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4129	0.4087	0.3835	0.4010	0.4125	0.4165	0.4042	0.4268	----	0.408	6.74	0.999	0.999	3.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2724	0.2294	0.2416	0.2598	0.2788	0.2816	0.2806	0.2955	0.3159	0.273	6.82	0.999	1.00	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.2961	0.3028	0.2757	0.2922	0.2980	0.3014	0.2951	0.3090	----	0.296	6.89	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.0470	1.0755	0.9996	1.0490	1.0627	1.0544	1.0167	1.0556	1.6962	1.12	6.95	0.999	0.999	20	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4019	0.3916	0.3841	0.3984	0.4122	0.4073	0.3911	0.3987	0.5999	0.421	6.99	0.999	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1664	0.1811	0.1564	0.1684	0.1698	0.1708	0.1669	0.1756	----	0.169	7.04	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1028	0.0763	0.0903	0.0990	0.1078	0.1095	0.1092	0.1134	----	0.101	7.26	0.999	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2790	0.2360	0.2456	0.2686	0.2917	0.2961	0.2962	0.3115	----	0.278	7.35	0.999	1.00	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6944	0.6771	0.6494	0.6875	0.7097	0.7020	0.6815	0.7064	----	0.689	7.50	0.999	0.999	2.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6359	0.6332	0.5994	0.6464	0.6485	0.6492	0.6300	0.6543	----	0.637	7.58	0.999	0.999	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6646	0.6552	0.6244	0.6640	0.6791	0.6756	0.6562	0.6804	----	0.662	7.50	0.999	0.999	2.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.8181	0.8439	0.7751	0.8068	0.8353	0.8250	0.7981	0.8291	----	0.816	7.87	0.999	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.6260	0.6195	0.5745	0.6187	0.6385	0.6449	0.6256	0.6543	----	0.625	7.62	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.84

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3487	0.2175	0.2510	0.2846	0.3547	0.3672	0.3633	0.3825	----	0.321	7.61	0.999	0.999	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3951	0.3254	0.3304	0.3732	0.4680	0.4450	0.4280	0.4408	----	0.401	7.71	0.998	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4129	0.3291	0.3665	0.3779	0.4389	0.4465	0.4444	0.4589	----	0.409	7.74	0.999	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4618	1.5140	1.3749	1.4569	1.4905	1.5099	1.4993	1.5684	----	1.48	7.78	0.999	1.00	3.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2532	1.2243	1.1694	1.2342	1.2757	1.2716	1.2471	1.3053	----	1.25	7.90	1.00	1.00	3.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8957	0.8725	0.8277	0.8857	0.9200	0.9223	0.8954	0.9455	----	0.896	7.96	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.4092	0.2887	0.3381	0.3846	0.4465	0.4466	0.4453	0.4696	----	0.404	7.97	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5229	0.4865	0.4837	0.5100	0.5299	0.5411	0.5265	0.5415	----	0.518	8.16	1.00	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	2.0049	1.8122	1.7868	1.9733	2.0282	2.0438	1.9827	2.0551	----	1.96	8.26	1.00	1.00	5.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3643	1.3293	1.2827	1.3547	1.4004	1.4241	1.3904	1.4616	----	1.38	8.12	0.999	0.999	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Qua	0.2782	0.1388	0.2329	0.2784	0.3131	0.3074	0.2911	0.2979	----	0.267	8.18	0.998	0.999	22	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2908	1.2738	1.2124	1.2642	1.3286	1.3155	1.2716	1.3292	----	1.29	8.41	0.999	0.999	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3201	0.1950	0.2774	0.3205	0.3632	0.3617	0.3575	0.3700	----	0.321	8.33	0.999	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0869	-----	0.0451	0.0618	0.1087	0.1195	0.1271	0.1374	----	0.0981	8.42	0.990	0.999	35	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7827	1.7455	1.6620	1.7503	1.8030	1.7994	1.7598	1.8414	2.7555	1.88	8.57	0.999	0.999	18	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3137	0.1515	0.2380	0.3005	0.3764	0.3932	0.3922	0.4181	----	0.323	8.54	0.997	0.999	28	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2423	0.0971	0.1858	0.2265	0.2770	0.2835	0.2825	0.2919	----	0.236	8.45	0.997	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3371	0.2342	0.2888	0.3203	0.3628	0.3754	0.3688	0.3905	----	0.335	8.67	0.998	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4784	1.3492	1.3467	1.4529	1.5101	1.5068	1.4451	1.5090	----	1.45	8.90	0.999	0.999	4.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6835	0.6653	0.6452	0.6744	0.7039	0.7095	0.6878	0.7234	----	0.687	8.88	0.999	1.00	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3517	1.2321	1.2382	1.3373	1.3846	1.3999	1.3726	1.4466	----	1.35	8.75	0.999	0.999	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3794	0.2108	0.2963	0.3488	0.4084	0.4144	0.4054	0.4252	----	0.361	8.90	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3785	0.2738	0.3162	0.3638	0.3982	0.4039	0.4031	0.4274	----	0.371	9.52	0.998	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0667	-----	0.0384	0.0522	0.0847	0.0942	0.0973	0.1028	----	0.0767	8.92	0.996	0.999	32	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6667	0.6137	0.6067	0.6608	0.6785	0.6906	0.6588	0.6918	----	0.659	9.00	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0970	0.0638	0.0758	0.0921	0.1065	0.1096	0.1083	0.1145	----	0.0960	9.12	0.998	0.999	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8028	0.7355	0.7308	0.7920	0.8132	0.8254	0.7892	0.9078	----	0.800	9.04	0.996	0.998	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2120	0.1905	0.1888	0.2081	0.2178	0.2263	0.2184	0.2324	----	0.212	9.38	0.998	0.999	7.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2245	0.2244	0.2147	0.2256	0.2310	0.2348	0.2274	0.2413	----	0.228	9.44	0.999	0.999	3.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4526	0.3055	0.3705	0.4318	0.4571	0.4645	0.4379	0.4491	----	0.421	9.71	0.999	0.999	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1263	-----	0.0853	0.1072	0.1391	0.1479	0.1477	0.1591	----	0.130	9.64	0.997	0.999	20	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1071	1.1074	1.0299	1.1076	1.1353	1.1443	1.0920	1.1436	----	1.11	9.88	0.999	0.999	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1346	1.0159	1.0256	1.1238	1.1722	1.1868	1.1336	1.1875	----	1.12	9.94	0.999	0.999	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0534	0.9433	0.9530	1.0382	1.0852	1.1119	1.0591	1.1128	----	1.04	10.11	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2114	0.8511	0.9817	1.1298	1.2483	1.2889	1.2345	1.3030	1.0518	1.14	10.48	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1959	0.9746	1.0118	1.1427	1.2390	1.2665	1.2179	1.2875	----	1.17	11.22	0.999	0.999	10	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3132	1.1788	1.1981	1.2929	1.3442	1.3431	1.2920	1.3431	----	1.29	11.49	0.999	0.999	5.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.8253	0.4771	0.6651	0.7903	0.8780	0.8544	0.7833	0.7829	----	0.757	11.37	0.997	0.999	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6634	0.6183	0.6068	0.6496	0.6918	0.6974	0.6818	0.7365	----	0.668	11.67	0.997	0.998	6.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.84

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2581	0.2208	0.2294	0.2433	0.2702	0.2731	0.2697	0.2863	----	0.256	11.60	0.998	0.999	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4522	0.3175	0.3732	0.4153	0.4680	0.4770	0.4645	0.4853	----	0.432	12.00	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5453	0.3020	0.4116	0.4853	0.5681	0.5833	0.5740	0.6049	----	0.509	12.25	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Qua	0.4090	0.2028	0.2947	0.3479	0.4261	0.4307	0.4170	0.4371	----	0.371	12.36	0.999	0.999	23		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4707	0.3390	0.4080	0.4666	0.5043	0.5014	0.4845	0.4970	----	0.459	12.88	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2591	1.2310	1.1698	1.2516	1.2936	1.2988	1.2576	1.3003	----	1.26	12.91	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.2559	1.2566	1.1720	1.2439	1.2635	1.2542	1.1614	1.2167	----	1.23	12.95	0.998	0.998	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.8253	0.4720	0.6343	0.7437	0.8454	0.8517	0.8063	0.8387	----	0.752	12.95	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1854	0.4944	0.7883	0.9702	1.2565	1.3146	1.2879	1.3756	----	1.08	13.70	0.998	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1382	0.9772	1.0034	1.1964	1.1841	1.1931	1.1967	1.3067	----	1.15	14.13	0.996	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1500	1.0463	1.0559	1.0442	1.1920	1.1748	1.1730	1.1903	----	1.13	14.16	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1147	0.8795	0.9429	1.0377	1.1501	1.1895	1.1504	1.2288	----	1.09	14.50	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2675	0.9839	1.0523	1.1561	1.3126	1.3716	1.3462	1.4405	----	1.24	15.94	0.998	0.999	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0392	0.8025	0.8707	0.9504	1.0752	1.1191	1.1030	1.1768	----	1.02	15.97	0.998	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0437	0.8741	0.9013	0.9750	1.0721	1.1133	1.0879	1.1694	----	1.03	16.34	0.998	0.999	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.84
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.8945	0.9127	0.8842	0.9167	0.9231	0.9139	0.8895	0.9514	0.4553	0.860	2.80	0.998	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0327	1.7523	1.9162	2.0557	2.1417	2.1882	2.1356	2.2029	----	2.05	3.26	0.999	1.00	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.3707	1.2840	1.2757	1.3735	1.4551	1.4357	1.4063	1.4790	----	1.39	3.22	0.999	0.999	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2144	1.9930	2.4771	2.3467	2.4215	2.3761	2.6019	2.3715	----	2.35	4.75	0.997	0.997	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7459	1.7574	1.7395	1.8672	1.8700	1.7718	1.6945	1.7236	----	1.77	5.57	0.999	0.999	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3496	3.1555	3.3095	3.5401	3.5590	3.3830	3.2144	3.2980	3.7879	3.40	5.66	0.999	0.999	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.7937	0.8032	0.8146	0.8831	0.8609	0.8202	0.7798	0.8052	----	0.820	5.70	0.998	0.999	4.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.1632	2.1093	2.2638	2.3788	2.2890	2.0482	1.9820	2.0139	2.4521	2.19	5.71	0.997	0.998	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.5651	2.4488	3.0319	2.7289	2.7690	2.6705	2.8958	2.5702	----	2.71	5.61	0.994	0.994	7.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.9569	2.8899	2.9890	3.1933	3.1604	2.9278	2.7335	2.7945	----	2.96	5.62	0.997	0.998	5.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4178	2.2467	2.3895	2.6021	2.5976	2.4655	2.3138	2.3913	----	2.43	5.75	0.998	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.7066	1.8692	1.8253	1.9408	1.7847	1.6154	1.5328	1.5651	----	1.73	5.80	0.997	0.998	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	2.6631	2.7718	2.7462	2.9135	2.8196	2.5845	2.4560	2.5141	----	2.68	5.89	0.997	0.998	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.3652	1.4980	1.4106	1.4503	1.3883	1.3421	1.3144	1.3692	----	1.39	5.95	0.999	0.999	4.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.2981	1.4203	1.3315	1.3702	1.3261	1.2796	1.2439	1.2894	----	1.32	6.07	0.999	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.7715	0.6951	0.7558	0.8028	0.7912	0.7882	0.7722	0.7984	----	0.772	6.04	1.00	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	0.9879	1.0608	1.0420	1.0856	1.0072	0.9650	0.9471	0.9692	----	1.01	6.15	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.0253	0.9959	1.0426	1.1011	1.0593	1.0378	1.0152	1.0472	0.9628	1.03	6.13	1.00	1.00	3.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.5068	1.6695	1.5659	1.6930	1.4687	1.3125	1.2388	1.2847	----	1.47	6.26	0.995	0.997	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5088	0.5557	0.5176	0.5561	0.5227	0.5121	0.5006	0.5185	----	0.524	6.35	0.999	0.999	4.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.7139	0.7862	0.7834	0.8036	0.7088	0.6729	0.6685	0.6859	0.8574	0.742	6.26	0.998	0.999	9.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.0368	0.9878	1.0637	1.1500	1.0300	0.9097	0.8859	0.8949	1.1983	1.02	6.25	0.994	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1509	0.1348	0.1683	0.1544	0.1557	0.1598	0.1791	0.1628	----	0.158	6.38	0.996	0.997	8.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3051	0.3005	0.3049	0.3176	0.3042	0.3001	0.2907	0.3042	----	0.303	6.40	0.999	0.999	2.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5488	0.5637	0.5665	0.5907	0.5575	0.5695	0.5515	0.5816	----	0.566	6.58	0.999	0.999	2.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1715	0.1514	0.1572	0.1743	0.1782	0.1801	0.1746	0.1824	----	0.171	6.65	0.999	1.00	6.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3044	0.2977	0.3137	0.3225	0.3076	0.3089	0.2992	0.3123	0.3312	0.311	6.66	0.999	0.999	3.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2369	----	0.1622	0.1942	0.2565	0.2844	0.2761	0.2932	----	0.243	6.73	0.997	0.999	20		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3278	0.3356	0.3401	0.3645	0.3274	0.3183	0.3111	0.3196	----	0.331	6.74	0.999	0.999	5.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2590	0.2177	0.2494	0.2653	0.2639	0.2638	0.2574	0.2700	0.2264	0.253	6.82	0.999	0.999	7.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.2940	0.3273	0.3006	0.3188	0.2981	0.2888	0.2796	0.2901	----	0.300	6.89	0.999	0.999	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9094	1.0096	0.9380	0.9795	0.8967	0.8508	0.8288	0.8556	1.1025	0.930	6.96	0.999	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3685	0.3536	0.3638	0.3937	0.3678	0.3516	0.3376	0.3476	0.3977	0.365	6.99	0.999	0.999	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1634	0.1803	0.1694	0.1819	0.1690	0.1694	0.1663	0.1711	----	0.171	7.05	1.00	1.00	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0936	0.0761	0.0895	0.0977	0.0989	0.1108	0.1057	0.1126	----	0.0981	7.28	0.997	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2553	0.2012	0.2501	0.2695	0.2643	0.2695	0.2585	0.2695	----	0.255	7.36	0.999	0.999	9.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6051	0.6230	0.6182	0.6460	0.6036	0.5835	0.5593	0.5750	----	0.602	7.50	0.999	0.999	4.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.5859	0.6425	0.6091	0.6243	0.5752	0.5595	0.5400	0.5524	----	0.586	7.58	0.999	0.999	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.5952	0.6327	0.6136	0.6360	0.5895	0.5728	0.5493	0.5636	----	0.594	7.50	0.999	0.999	5.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.7387	0.7701	0.7794	0.8032	0.7362	0.7079	0.6856	0.6960	----	0.740	7.88	0.999	1.00	5.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.5694	0.5850	0.5655	0.6206	0.5802	0.5670	0.5336	0.5713	----	0.574	7.63	0.998	0.998	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.61
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120911 0085

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3262	0.2389	0.2847	0.3315	0.3622	0.3870	0.3818	0.4093	----	0.340	7.62	0.997	0.999	17	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4532	0.3142	0.3638	0.3936	0.3996	0.4038	0.3932	0.4159	----	0.392	7.72	0.998	0.998	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3411	0.2996	0.3783	0.4106	0.4306	0.4388	0.4281	0.4522	----	0.397	7.76	0.997	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3771	1.3958	1.5655	1.4609	1.3830	1.3961	1.5396	1.4361	----	1.44	7.79	0.998	0.998	5.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1263	1.1548	1.1262	1.2011	1.1104	1.0677	1.0426	1.0877	----	1.11	7.90	0.999	0.999	4.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8734	1.0076	0.9453	0.9911	0.8443	0.7532	0.7269	0.7410	----	0.860	8.19	0.996	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8734	1.0076	0.9453	0.9911	0.8443	0.7532	0.7269	0.7410	----	0.860	8.19	0.993	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7767	0.8332	0.7978	0.8570	0.7912	0.7678	0.7296	0.7852	----	0.792	7.97	0.997	0.998	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3520	0.2648	0.3249	0.3597	0.3624	0.3608	0.3517	0.3705	----	0.343	7.99	0.999	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4371	0.3887	0.4479	0.4641	0.4281	0.3827	0.3648	0.3681	----	0.410	8.17	0.995	0.998	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7819	1.8312	1.8221	1.9190	1.7612	1.7105	1.6688	1.7269	----	1.78	8.27	0.999	0.999	4.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2520	1.3886	1.3328	1.3934	1.2942	1.2888	1.2492	1.3260	----	1.32	8.13	0.998	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2869	0.2674	0.3000	0.3130	0.2838	0.2573	0.2451	0.2569	----	0.276	8.19	0.996	0.997	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.0988	1.2243	1.1537	1.2183	1.1049	1.0707	1.0389	1.1008	----	1.13	8.43	0.998	0.998	5.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3280	0.2274	0.3154	0.3500	0.3372	0.3286	0.3220	0.3380	----	0.318	8.35	0.999	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1396	----	0.0762	0.1127	0.1701	0.1889	0.1818	0.2032	----	0.153	8.44	0.994	0.997	30	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5782	1.7126	1.6148	1.7011	1.5678	1.5384	1.4959	1.5661	1.8447	1.62	8.59	0.999	0.999	6.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4008	0.2986	0.3720	0.4080	0.4165	0.4304	0.4159	0.4397	----	0.398	8.56	0.999	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2306	0.0761	0.1515	0.2274	0.2265	0.2515	0.2473	0.2637	----	0.209	8.46	0.997	0.999	30	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3408	0.2915	0.3267	0.3637	0.3637	0.3698	0.3631	0.3818	----	0.350	8.69	0.999	1.00	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2594	1.3253	1.3232	1.3797	1.2581	1.2289	1.1866	1.2454	----	1.28	8.92	0.999	0.999	4.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6122	0.6467	0.6483	0.6654	0.6264	0.6137	0.5933	0.6250	----	0.629	8.90	0.999	0.999	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2680	1.3364	1.3257	1.4027	1.3065	1.3045	1.2726	1.3307	----	1.32	8.78	0.999	0.999	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3427	0.2102	0.3396	0.3594	0.3504	0.3557	0.3494	0.3659	----	0.334	8.92	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3655	0.3230	0.3582	0.3938	0.3960	0.4057	0.3948	0.4204	----	0.382	9.67	0.998	0.999	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1033	----	0.0763	0.0991	0.1132	0.1176	0.1161	0.1234	----	0.107	8.94	0.998	0.999	15	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5532	0.5552	0.5751	0.6118	0.5515	0.5454	0.5343	0.5542	----	0.560	9.01	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1034	0.0765	0.1068	0.1065	0.1115	0.1176	0.1341	0.1244	----	0.110	9.15	0.993	0.995	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.5753	0.6704	0.6688	0.7066	0.6303	0.6092	0.5929	0.6094	----	0.633	9.06	0.998	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1920	0.1895	0.1892	0.2082	0.2013	0.2067	0.2019	0.2132	----	0.200	9.40	0.998	0.999	4.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2173	0.2201	0.2150	0.2307	0.2265	0.2315	0.2263	0.2378	----	0.226	9.46	0.999	0.999	3.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2807	0.2716	0.3012	0.3195	0.2848	0.2746	0.2692	0.2753	----	0.285	9.74	0.999	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1400	----	0.1126	0.1399	0.1535	0.1611	0.1606	0.1697	----	0.148	9.67	0.998	0.999	13	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	0.9536	1.1009	1.0068	1.0526	0.9496	0.9303	0.9098	0.9498	----	0.982	9.91	0.999	0.999	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	0.9799	1.0336	1.0100	1.0507	0.9755	0.9475	0.9378	0.9653	----	0.988	9.97	0.999	0.999	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.8899	0.8940	0.9177	0.9660	0.8906	0.8843	0.8770	0.9060	----	0.903	10.14	0.999	1.00	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.0637	1.0132	1.1137	1.1784	1.1118	1.0914	1.0612	1.0980	1.1119	1.09	10.52	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.0704	1.0737	1.0781	1.1363	1.0848	1.0928	1.0583	1.1049	----	1.09	11.26	0.999	0.999	2.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1649	1.2695	1.2059	1.2509	1.1746	1.1903	1.1636	1.2443	----	1.21	11.53	0.998	0.999	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7541	0.3040	0.6108	0.7347	0.7796	0.7855	0.7647	0.8194	----	0.694	11.42	0.998	0.999	24		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6355	0.6071	0.7238	0.6630	0.6654	0.6955	0.7948	0.7597	----	0.693	11.71	0.993	0.997	9.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 7.61

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2261	0.2416	0.2313	0.2476	0.2487	0.2626	0.2560	0.2839	----	0.250	11.64	0.994	0.998	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4281	0.4067	0.4222	0.4620	0.4548	0.4593	0.4446	0.4832	----	0.445	12.05	0.998	0.999	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5059	0.4547	0.5043	0.5477	0.5411	0.5520	0.5464	0.5834	----	0.529	12.31	0.998	0.999	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3618	0.2823	0.3497	0.3884	0.3823	0.3737	0.3569	0.3878	----	0.360	12.41	0.997	0.997	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4571	0.2887	0.4170	0.4833	0.4902	0.4893	0.4795	0.5075	----	0.452	12.93	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1152	1.2662	1.1587	1.2056	1.1542	1.1422	1.1668	1.2597	----	1.18	12.96	0.996	0.999	4.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	0.9775	1.3130	1.0937	1.1367	0.9898	0.9891	0.9326	1.0104	----	1.06	13.00	0.997	0.997	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.6697	0.6565	0.7255	0.7713	0.6946	0.6810	0.6680	0.7107	----	0.697	13.00	0.998	0.999	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.0740	0.7956	1.0743	1.1550	1.1538	1.1563	1.1315	1.2218	----	1.10	13.77	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0348	0.9220	0.9886	1.0701	1.0850	1.1299	1.1348	1.2695	----	1.08	14.20	0.995	0.999	9.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	0.9859	1.0281	1.0828	1.0992	1.0021	1.0140	0.9777	1.0308	----	1.03	14.24	0.999	0.999	4.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	0.9911	0.9349	0.9624	1.0508	1.0207	1.0609	1.0436	1.1357	----	1.03	14.58	0.996	0.999	6.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.0642	0.9465	1.0163	1.0884	1.1366	1.1826	1.1624	1.2728	----	1.11	16.09	0.997	0.999	9.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9243	0.7669	0.8972	0.9459	0.9925	1.0100	0.9964	1.0843	----	0.952	16.11	0.996	0.999	9.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9225	0.9247	0.9204	0.9713	0.9895	1.0047	0.9938	1.0668	----	0.974	16.51	0.997	0.999	5.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.61
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1120911 0087

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M88951.D	CAL BNA@50PPM	12/20/21 14:31	2	10M88944.D	CAL BNA@2PPM	12/20/21 11:43
3	10M88943.D	CAL BNA@10PPM	12/20/21 11:21	4	10M88949.D	CAL BNA@20PPM	12/20/21 13:46
5	10M88948.D	CAL BNA@80PPM	12/20/21 13:24	6	10M88947.D	CAL BNA@120PPM	12/20/21 13:01
7	10M88946.D	CAL BNA@160PPM	12/20/21 12:39	8	10M88945.D	CAL BNA@196PPM	12/20/21 12:17
9	10M88950.D	CAL BNA@0.5PPM	12/20/21 14:08				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.8866	1.0548	0.9928	0.9534	0.8970	0.8953	0.8748	0.9270	1.1375	0.958	2.63	0.999	0.999	9.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0641	2.0348	1.8688	2.0241	2.0552	2.0888	2.0778	2.1677	----	2.05	3.08	0.999	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4064	1.4185	1.3413	1.3972	1.4358	1.4543	1.4398	1.5016	----	1.42	3.03	0.999	1.00	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.6330	2.2267	2.4533	2.6548	2.6984	2.7192	2.6707	2.7225	----	2.60	4.60	1.00	1.00	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7753	1.9398	1.7186	1.8067	1.7999	1.7741	1.7379	1.7564	----	1.79	5.43	1.00	1.00	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.4610	3.6822	3.3010	3.5360	3.4927	3.5150	3.4091	3.4780	3.6512	3.50	5.52	1.00	1.00	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8099	0.8995	0.7780	0.8255	0.8327	0.8267	0.8159	0.8088	----	0.825	5.56	1.00	1.00	4.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.2816	2.6393	2.2146	2.3440	2.2945	2.2590	2.1787	2.1816	2.4659	2.32	5.58	0.999	1.00	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.1842	2.7317	3.0392	3.2211	3.2449	3.2127	3.0799	3.0742	----	3.10	5.48	0.999	1.00	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.1898	3.4297	3.0776	3.2422	3.2271	3.1837	3.0710	3.0410	----	3.18	5.49	0.999	1.00	3.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.5244	2.5813	2.4012	2.6027	2.5973	2.5893	2.4924	2.4841	----	2.53	5.62	0.999	1.00	2.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.5556	2.8387	2.5591	2.6040	2.5126	2.4328	2.2937	2.2830	----	2.51	5.66	0.998	1.00	7.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	2.7356	3.1386	2.6706	2.8705	2.8060	2.7702	2.6760	2.6551	----	2.79	5.75	0.999	1.00	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.4772	1.6736	1.4245	1.4526	1.4238	1.4262	1.4099	1.4409	----	1.47	5.82	1.00	1.00	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.3971	1.5594	1.3354	1.3760	1.3531	1.3634	1.3331	1.3743	----	1.39	5.94	1.00	1.00	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8440	0.8334	0.7812	0.8273	0.8355	0.8417	0.8347	0.8637	----	0.833	5.91	1.00	1.00	2.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.6639	1.9012	1.6348	1.6300	1.5605	1.5520	1.5357	1.5788	----	1.63	6.02	1.00	1.00	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1613	1.1516	1.1052	1.1442	1.1221	1.1466	1.1311	1.1689	1.2437	1.15	6.00	1.00	1.00	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.5298	1.8159	1.5342	1.5402	1.4629	1.4071	1.3562	1.3454	----	1.50	6.13	0.998	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5143	0.5083	0.4763	0.5076	0.5075	0.5074	0.5059	0.5245	----	0.507	6.21	0.999	1.00	2.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.7936	0.8752	0.7835	0.8082	0.7583	0.7348	0.7231	0.7324	0.8176	0.781	6.13	0.999	1.00	6.3	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.1767	1.1516	1.1058	1.1804	1.1369	1.0809	1.0362	1.0071	1.1289	1.11	6.12	0.997	1.00	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1705	0.1226	0.1487	0.1659	0.1762	0.1810	0.1801	0.1828	----	0.166	6.25	1.00	1.00	12		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.2877	0.2724	0.2639	0.2793	0.2845	0.2845	0.2814	0.2848	----	0.280	6.26	1.00	1.00	2.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5655	0.5898	0.5457	0.5671	0.5528	0.5538	0.5435	0.5524	----	0.559	6.45	1.00	1.00	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1534	0.1009	0.1142	0.1447	0.1601	0.1670	0.1641	0.1661	----	0.146	6.51	1.00	1.00	17	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3049	0.2886	0.2904	0.3061	0.2991	0.2988	0.2939	0.2964	0.2878	0.296	6.53	1.00	1.00	2.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1437	----	0.0547	0.1303	0.1787	0.2007	0.1980	0.2002	----	0.158	6.60	0.998	0.998	34		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3399	0.3670	0.3308	0.3430	0.3287	0.3262	0.3188	0.3185	----	0.334	6.61	1.00	1.00	4.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2632	0.2406	0.2409	0.2619	0.2628	0.2651	0.2580	0.2602	0.2206	0.253	6.69	1.00	1.00	6.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.2873	0.3187	0.2777	0.2902	0.2810	0.2826	0.2766	0.2755	----	0.286	6.76	1.00	1.00	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9833	1.1131	0.9726	1.0014	0.9600	0.9536	0.9128	0.8948	1.1589	0.995	6.82	0.999	1.00	8.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3866	0.4043	0.3684	0.3885	0.3765	0.3710	0.3525	0.3492	0.3991	0.377	6.85	0.998	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1481	0.1610	0.1432	0.1489	0.1501	0.1510	0.1476	0.1479	----	0.150	6.90	1.00	1.00	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0972	0.0723	0.0781	0.0948	0.0984	0.1007	0.1079	0.1099	----	0.0950	7.12	0.998	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2511	0.2079	0.2219	0.2487	0.2524	0.2554	0.2537	0.2536	----	0.243	7.21	1.00	1.00	7.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6308	0.6955	0.6079	0.6358	0.6131	0.6012	0.5783	0.5670	----	0.616	7.35	0.998	1.00	6.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6179	0.6577	0.5952	0.6169	0.5943	0.5870	0.5660	0.5511	----	0.598	7.43	0.998	1.00	5.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.6212	0.6766	0.5986	0.6224	0.6006	0.5909	0.5726	0.5602	----	0.605	7.35	0.999	1.00	5.9		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.7674	0.8539	0.7374	0.7758	0.7530	0.7425	0.7084	0.6936	----	0.754	7.72	0.998	1.00	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.5587	0.6331	0.5289	0.5495	0.5423	0.5422	0.5246	0.5283	----	0.551	7.48	1.00	1.00	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.48

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M88951.D	CAL BNA@50PPM	12/20/21 14:31	2	10M88944.D	CAL BNA@2PPM	12/20/21 11:43
3	10M88943.D	CAL BNA@10PPM	12/20/21 11:21	4	10M88949.D	CAL BNA@20PPM	12/20/21 13:46
5	10M88948.D	CAL BNA@80PPM	12/20/21 13:24	6	10M88947.D	CAL BNA@120PPM	12/20/21 13:01
7	10M88946.D	CAL BNA@160PPM	12/20/21 12:39	8	10M88945.D	CAL BNA@196PPM	12/20/21 12:17
9	10M88950.D	CAL BNA@0.5PPM	12/20/21 14:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3004	0.2087	0.2332	0.2766	0.3097	0.3182	0.3122	0.3135	----	0.284	7.47	0.999	0.999	15	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3686	0.2927	0.3187	0.3622	0.3664	0.3732	0.3671	0.3792	----	0.354	7.56	1.00	1.00	8.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3938	0.3036	0.3430	0.3767	0.3938	0.4029	0.4014	0.4082	----	0.378	7.60	1.00	1.00	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.6326	1.5279	1.5334	1.6118	1.6056	1.6212	1.5957	1.6218	----	1.59	7.63	1.00	1.00	2.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1652	1.2783	1.1330	1.1550	1.1307	1.1377	1.1053	1.1120	----	1.15	7.75	1.00	1.00	4.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9633	1.0473	0.9431	0.9717	0.9186	0.8744	0.8195	0.7902	----	0.916	8.02	0.995	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9633	1.0473	0.9431	0.9717	0.9186	0.8744	0.8195	0.7902	----	0.916	8.02	0.995	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8312	0.9220	0.7981	0.8099	0.7950	0.8034	0.7779	0.7841	----	0.815	7.80	1.00	1.00	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3422	0.2429	0.2781	0.3253	0.3396	0.3452	0.3393	0.3501	----	0.320	7.82	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4710	0.5298	0.4525	0.4725	0.4546	0.4519	0.4299	0.4149	----	0.460	8.01	0.997	1.00	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8939	1.9886	1.8104	1.9059	1.8367	1.8183	1.7747	1.7796	----	1.85	8.10	1.00	1.00	4.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2771	1.3844	1.2252	1.2623	1.2500	1.2536	1.2298	1.2444	----	1.27	7.97	1.00	1.00	4.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2859	0.2129	0.2500	0.2835	0.2786	0.2705	0.2595	0.2553	----	0.262	8.02	0.998	1.00	9.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1753	1.2997	1.1226	1.1781	1.1301	1.1108	1.0691	1.0719	----	1.14	8.25	0.999	1.00	6.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3387	0.2314	0.2778	0.3255	0.3384	0.3407	0.3377	0.3378	----	0.316	8.17	1.00	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0934	----	0.0356	0.0640	0.1183	0.1370	0.1405	0.1445	----	0.105	8.26	0.997	0.998	40	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6678	1.8360	1.6111	1.6732	1.6149	1.6054	1.5558	1.5559	1.7403	1.65	8.41	0.999	1.00	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3767	0.2050	0.2764	0.3519	0.3826	0.3947	0.3901	0.4033	----	0.348	8.38	0.999	1.00	20	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2199	0.0928	0.1567	0.1784	0.2227	0.2312	0.2299	0.2372	----	0.196	8.29	0.999	1.00	26	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3139	0.2216	0.2655	0.3048	0.3141	0.3203	0.3119	0.3195	----	0.296	8.51	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3356	1.4509	1.2817	1.3414	1.2972	1.2695	1.2092	1.2044	----	1.30	8.73	0.999	1.00	6.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6245	0.6617	0.5863	0.6188	0.6130	0.6122	0.5909	0.5885	----	0.612	8.72	0.999	1.00	4.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2434	1.3181	1.1732	1.2392	1.2156	1.2360	1.2227	1.2359	----	1.24	8.60	1.00	1.00	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3589	0.2417	0.2974	0.3451	0.3647	0.3701	0.3669	0.3761	----	0.340	8.74	1.00	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3531	0.3176	0.3079	0.3484	0.3529	0.3591	0.3537	0.3612	----	0.344	9.36	1.00	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0868	----	0.0389	0.0628	0.0994	0.1075	0.1096	0.1137	----	0.0884	8.76	0.999	1.00	32	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6314	0.6306	0.6066	0.6203	0.6051	0.6081	0.5888	0.5929	----	0.611	8.83	1.00	1.00	2.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1074	0.0540	0.0847	0.1010	0.1085	0.1146	0.1159	0.1188	----	0.101	8.96	0.999	1.00	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6331	0.6733	0.6187	0.6254	0.6071	0.6162	0.6001	0.6602	----	0.629	8.87	0.998	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1887	0.1836	0.1781	0.1878	0.1842	0.1896	0.1873	0.1896	----	0.186	9.21	1.00	1.00	2.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.1937	0.2173	0.1851	0.1904	0.1915	0.1952	0.1928	0.1989	----	0.196	9.26	0.999	1.00	4.9	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4318	0.4217	0.4178	0.4311	0.4077	0.4014	0.3835	0.3772	----	0.409	9.54	0.998	1.00	5.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1242	----	0.0819	0.1064	0.1259	0.1305	0.1312	0.1398	----	0.120	9.46	0.998	0.999	16	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0404	1.1675	1.0171	1.0335	0.9919	0.9912	0.9546	0.9652	----	1.02	9.71	0.999	1.00	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0691	1.1237	1.0266	1.0638	1.0181	1.0258	0.9880	0.9855	----	1.04	9.76	0.999	1.00	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0009	1.0357	0.9625	0.9997	0.9635	0.9741	0.9473	0.9564	----	0.980	9.93	1.00	1.00	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1316	1.0121	1.0218	1.1109	1.1080	1.1226	1.0973	1.1037	0.8551	1.06	10.31	1.00	1.00	8.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1154	1.0772	1.0352	1.0866	1.0667	1.0685	1.0428	1.0312	----	1.07	11.03	0.999	1.00	2.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3480	1.3722	1.2990	1.3623	1.3219	1.3447	1.2927	1.3141	----	1.33	11.30	1.00	1.00	2.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.8578	0.5143	0.6733	0.8239	0.8669	0.8878	0.8454	0.8510	----	0.790	11.19	0.999	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7831	0.6815	0.7098	0.7693	0.7831	0.8052	0.8000	0.8565	----	0.774	11.48	0.999	1.00	7.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 7.48

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note:
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M88951.D	CAL BNA@50PPM	12/20/21 14:31	2	10M88944.D	CAL BNA@2PPM	12/20/21 11:43
3	10M88943.D	CAL BNA@10PPM	12/20/21 11:21	4	10M88949.D	CAL BNA@20PPM	12/20/21 13:46
5	10M88948.D	CAL BNA@80PPM	12/20/21 13:24	6	10M88947.D	CAL BNA@120PPM	12/20/21 13:01
7	10M88946.D	CAL BNA@160PPM	12/20/21 12:39	8	10M88945.D	CAL BNA@196PPM	12/20/21 12:17
9	10M88950.D	CAL BNA@0.5PPM	12/20/21 14:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2435	0.2419	0.2286	0.2380	0.2412	0.2517	0.2500	0.2602	-----	0.244	11.42	0.999	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4368	0.3942	0.3810	0.4295	0.4329	0.4480	0.4400	0.4516	-----	0.427	11.81	1.00	1.00	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5797	0.4527	0.4785	0.5518	0.5744	0.5994	0.5860	0.6068	-----	0.554	12.07	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3531	0.2019	0.2511	0.3287	0.3596	0.3696	0.3558	0.3634	-----	0.323	12.17	0.999	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4509	0.3305	0.3917	0.4457	0.4541	0.4624	0.4449	0.4476	-----	0.429	12.69	1.00	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1934	1.3084	1.1713	1.1974	1.1623	1.1758	1.1591	1.1972	-----	1.20	12.71	1.00	1.00	4.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1214	1.2375	1.0703	1.1451	1.0763	1.0640	1.0255	1.0398	-----	1.10	12.76	0.999	1.00	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8022	0.6846	0.7111	0.7985	0.8005	0.7893	0.7673	0.7663	-----	0.765	12.76	0.999	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.2472	0.9219	1.0199	1.1955	1.2286	1.2664	1.1994	1.2197	-----	1.16	13.51	0.999	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0959	1.0244	1.0127	1.0569	1.0170	0.9910	0.9853	1.0142	-----	1.02	13.92	0.999	0.999	3.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0606	1.0922	0.9523	1.0423	0.9765	0.9739	0.8746	0.9917	-----	0.996	13.95	0.993	0.993	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0068	0.9645	0.9232	0.9938	0.9721	0.9986	0.9652	0.9962	-----	0.978	14.27	0.999	0.999	2.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.0799	1.0215	0.9678	1.0411	1.0474	1.0932	1.0495	1.1018	-----	1.05	15.63	0.999	0.999	4.1	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9395	0.8949	0.8415	0.9155	0.9234	0.9697	0.9345	0.9737	-----	0.924	15.66	0.999	0.999	4.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9293	0.9019	0.8603	0.9064	0.9093	0.9535	0.9379	0.9802	-----	0.922	16.00	0.999	1.00	4.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.48
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M88954.D Instrument: GCMS 10

Cont Calibration Date/Time 12/21/2021 9:29:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.58	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.63	48.21	50	**		0.958	0.923	3.59	
Pyridine	1	0		3.07	50.08	50	**		2.048	2.051	0.16	
N-Nitrosodimethylamine	1	0		3.02	50.23	50	**		1.424	1.431	0.46	
2-Fluorophenol	1	0	S	4.60	51.20	50	**		2.597	2.660	2.40	
Benzaldehyde	1	0		5.43	49.09	50	20	0.01	1.789	1.756	1.82	
Aniline	1	0		5.52	49.75	50	**		3.503	3.485	0.50	
Pentachloroethane	1	0		5.56	50.22	50	**	0.05	0.825	0.828	0.44	
bis(2-Chloroethyl)ether	1	0		5.58	49.57	50	20	0.7	2.318	2.298	0.85	
Phenol-d5	1	0	S	5.47	52.02	50	**		3.099	3.224	4.05	
Phenol	1	0		5.49	50.46	50	20	0.8	3.183	3.212	0.92	
2-Chlorophenol	1	0		5.62	50.45	50	20	0.8	2.534	2.557	0.89	
N-Decane	1	0		5.66	50.74	50	**	0.05	2.510	2.547	1.47	
1,3-Dichlorobenzene	1	0		5.75	50.03	50	**		2.790	2.792	0.06	
1,4-Dichlorobenzene-d4	1	0	I	5.80	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.82	51.29	50	20		1.466	1.504	2.57	
1,2-Dichlorobenzene	1	0		5.94	51.33	50	**		1.387	1.424	2.67	
Benzyl alcohol	1	0		5.91	51.72	50	**		0.833	0.861	3.45	
bis(2-chloroisopropyl)ether	1	0		6.02	50.78	50	20	0.01	1.632	1.658	1.56	
2-Methylphenol	1	0		6.00	51.26	50	20	0.7	1.153	1.182	2.53	
Acetophenone	1	0		6.13	52.12	50	20	0.01	1.499	1.563	4.24	
Hexachloroethane	1	0		6.21	51.64	50	20	0.3	0.507	0.523	3.28	
N-Nitroso-di-n-propylamine	1	0		6.13	51.05	50	20	0.5	0.781	0.797	2.10	
3&4-Methylphenol	1	0		6.12	53.69	50	20		1.112	1.194	7.38	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.25	27.25	25	**		0.166	0.181	8.98	
Nitrobenzene	1	0		6.26	53.10	50	20	0.2	0.280	0.297	6.19	
Isophorone	1	0		6.45	51.97	50	20	0.4	0.559	0.581	3.95	
2-Nitrophenol	1	0		6.51	56.68	50	20	0.1	0.146	0.166	13.35	
2,4-Dimethylphenol	1	0		6.53	52.53	50	20	0.2	0.296	0.311	5.06	
Benzoic Acid	1	0		6.59	45.29	50	**		0.158	0.156	9.41	
bis(2-Chloroethoxy)methane	1	0		6.61	51.75	50	20	0.3	0.334	0.346	3.50	
2,4-Dichlorophenol	1	0		6.69	54.16	50	20	0.2	0.253	0.274	8.32	
1,2,4-Trichlorobenzene	1	0		6.76	51.15	50	**		0.286	0.293	2.29	
Naphthalene	1	0		6.82	50.76	50	20	0.7	0.995	1.010	1.52	
4-Chloroaniline	1	0		6.85	52.36	50	20	0.01	0.377	0.395	4.72	
Hexachlorobutadiene	1	0		6.90	51.30	50	20	0.01	0.150	0.154	2.59	
Caprolactam	1	0		7.12	52.06	50	20	0.01	0.095	0.099	4.12	
4-Chloro-3-methylphenol	1	0		7.21	53.66	50	20	0.2	0.243	0.261	7.31	
2-Methylnaphthalene	1	0		7.35	52.23	50	**	0.4	0.616	0.644	4.46	
1-Methylnaphthalene	1	0		7.43	52.38	50	**	0.4	0.598	0.627	4.77	
Methylnaphthalenes	1	0		7.35	104.51	50	**			1.265	109.02	
1,1'-Biphenyl	1	0		7.72	52.19	50	20	0.01	0.754	0.787	4.38	
Acenaphthene-d10	1	0	I	8.22	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.48	51.67	50	20	0.01	0.551	0.569	3.33	
Hexachlorocyclopentadiene	1	0		7.47	56.31	50	20	0.05	0.284	0.320	12.63	
2,4,6-Trichlorophenol	1	0		7.56	58.80	50	20	0.2	0.354	0.416	17.60	
2,4,5-Trichlorophenol	1	0		7.60	48.57	50	20	0.2	0.378	0.367	2.87	
2-Fluorobiphenyl	1	0	S	7.63	26.28	25	**		1.594	1.675	5.12	
2-Chloronaphthalene	1	0		7.75	51.61	50	20	0.8	1.152	1.189	3.22	
1,4-Dimethylnaphthalene	1	0		8.02	53.47	50	**		0.916	0.980	6.95	
Dimethylnaphthalenes	1	0		8.02	53.47	50	20			0.980	6.95	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M88954.D Instrument: GCMS 10

Cont Calibration Date/Time 12/21/2021 9:29:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.80	51.30	50	**		0.815	0.836	2.60	
2-Nitroaniline	1	0		7.82	54.65	50	20	0.01	0.320	0.350	9.30	
Coumarin	1	0		8.01	52.71		**		0.460			
Acenaphthylene	1	0		8.10	52.29	50	20	0.9	1.851	1.936	4.58	
Dimethylphthalate	1	0		7.97	50.98	50	20	0.01	1.266	1.291	1.96	
2,6-Dinitrotoluene	1	0		8.02	56.86	50	20	0.2	0.262	0.298	13.72	
Acenaphthene	1	0		8.25	51.62	50	20	0.9	1.145	1.182	3.24	
3-Nitroaniline	1	0		8.17	54.41	50	20	0.01	0.316	0.344	8.82	
2,4-Dinitrophenol	1	0		8.26	51.10	50	20	0.2	0.105	0.114	2.20	
Dibenzofuran	1	0		8.40	51.34	50	20	0.8	1.651	1.695	2.68	
2,4-Dinitrotoluene	1	0		8.38	52.12	50	20	0.2	0.348	0.392	4.24	
4-Nitrophenol	1	0		8.29	52.72	50	20	0.01	0.196	0.230	5.44	
2,3,4,6-Tetrachlorophenol	1	0		8.51	54.83	50	20	0.01	0.296	0.325	9.67	
Fluorene	1	0		8.73	52.29	50	20	0.9	1.299	1.358	4.58	
4-Chlorophenyl-phenylether	1	0		8.72	52.14	50	20	0.4	0.612	0.638	4.28	
Diethylphthalate	1	0		8.60	51.08	50	20	0.01	1.236	1.262	2.17	
4-Nitroaniline	1	0		8.74	54.65	50	20	0.01	0.340	0.372	9.31	
Atrazine	1	0		9.36	52.40	50	20	0.01	0.344	0.361	4.79	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.76	52.14	50	20	0.01	0.088	0.098	4.27	
n-Nitrosodiphenylamine	1	0		8.83	52.40	50	20	0.01	0.611	0.640	4.80	
2,4,6-Tribromophenol	1	0	S	8.96	50.59	50	**		0.101	0.109	1.17	
1,2-Diphenylhydrazine	1	0		8.87	55.42	50	**		0.629	0.698	10.84	
4-Bromophenyl-phenylether	1	0		9.21	51.72	50	20	0.1	0.186	0.193	3.43	
Hexachlorobenzene	1	0		9.27	50.14	50	20	0.1	0.196	0.196	0.27	
N-Octadecane	1	0		9.54	53.19	50	**	0.05	0.409	0.435	6.39	
Pentachlorophenol	1	0		9.46	54.59	50	20	0.05	0.120	0.132	9.18	
Phenanthrene	1	0		9.70	51.56	50	20	0.7	1.020	1.052	3.12	
Anthracene	1	0		9.76	51.90	50	20	0.7	1.038	1.077	3.79	
Carbazole	1	0		9.93	51.92	50	20	0.01	0.980	1.018	3.85	
Di-n-butylphthalate	1	0		10.31	53.72	50	20	0.01	1.063	1.142	7.44	
Fluoranthene	1	0		11.03	52.25	50	20	0.6	1.066	1.113	4.50	
Chrysene-d12	1	0	I	12.73	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.30	52.51	50	20	0.6	1.332	1.399	5.03	
Benzidine	1	0		11.19	57.82	50	**		0.790	0.914	15.64	
Terphenyl-d14	1	0	S	11.48	26.20	25	**		0.774	0.811	4.81	
4,4'-DDE	1	0		11.42	51.97		**		0.244			
4,4'-DDD	1	0		11.81	53.16		**		0.427			
Butylbenzylphthalate	1	0		12.07	53.74	50	20	0.01	0.554	0.595	7.48	
4,4'-DDT	1	0		12.17	59.57		**		0.323			
3,3'-Dichlorobenzidine	1	0		12.69	55.30	50	20	0.01	0.429	0.474	10.61	
Benzo[a]anthracene	1	0		12.71	51.47	50	20	0.8	1.196	1.231	2.93	
Chrysene	1	0		12.76	52.57	50	20	0.7	1.098	1.154	5.13	
bis(2-Ethylhexyl)phthalate	1	0		12.76	54.27	50	20	0.01	0.765	0.830	8.55	
Perylene-d12	1	0	I	14.34	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.51	54.66	50	20	0.01	1.162	1.271	9.32	
Benzo[b]fluoranthene	1	0		13.92	51.04	50	20	0.7	1.025	1.046	2.08	
Benzo[k]fluoranthene	1	0		13.95	55.16	50	20	0.7	0.996	1.098	10.31	
Benzo[a]pyrene	1	0		14.27	52.96	50	20	0.7	0.978	1.035	5.92	
Indeno[1,2,3-cd]pyrene	1	0		15.63	52.70	50	20	0.5	1.050	1.107	5.41	
Dibenzo[a,h]anthracene	1	0		15.66	52.84	50	20	0.4	0.924	0.977	5.69	
Benzo[g,h,i]perylene	1	0		16.00	52.58	50	20	0.5	0.922	0.970	5.16	

S-Surrogate Compound I-Internal Standard Compound Page 2 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M88954.D **Instrument:** GCMS 10

Cont Calibration Date/Time 12/21/2021 9:29:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.605	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.916	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118659.D Instrument: GCMS 7

Cont Calibration Date/Time 12/22/2021 8:14:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.73	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.78	53.56	50	**		0.860	0.921	7.12	
Pyridine	1	0		3.24	53.03	50	**		2.053	2.178	6.06	
N-Nitrosodimethylamine	1	0		3.20	53.58	50	**		1.385	1.484	7.17	
2-Fluorophenol	1	0	S	4.74	56.36	50	**		2.350	2.649	12.72	
Benzaldehyde	1	0		5.57	58.89	50	20	0.01	1.771	2.086	17.78	
Aniline	1	0		5.65	57.12	50	**		3.400	3.884	14.24	
Pentachloroethane	1	0		5.70	60.13	50	**	0.05	0.820	0.986	20.27	
bis(2-Chloroethyl)ether	1	0		5.71	57.03	50	20	0.7	2.189	2.497	14.05	
Phenol-d5	1	0	S	5.61	57.30	50	**		2.710	3.106	14.59	
Phenol	1	0		5.62	58.96	50	20	0.8	2.956	3.485	17.92	
2-Chlorophenol	1	0		5.75	60.42	50	20	0.8	2.428	2.934	20.84	C1
N-Decane	1	0		5.79	58.82	50	**	0.05	1.730	2.035	17.63	
1,3-Dichlorobenzene	1	0		5.88	60.10	50	**		2.684	3.226	20.21	
1,4-Dichlorobenzene-d4	1	0	I	5.93	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.95	51.53	50	20		1.392	1.435	3.06	
1,2-Dichlorobenzene	1	0		6.07	51.60	50	**		1.320	1.362	3.21	
Benzyl alcohol	1	0		6.04	52.68	50	**		0.772	0.813	5.37	
bis(2-chloroisopropyl)ether	1	0		6.15	49.78	50	20	0.01	1.008	1.004	0.44	
2-Methylphenol	1	0		6.12	52.56	50	20	0.7	1.032	1.085	5.13	
Acetophenone	1	0		6.26	53.01	50	20	0.01	1.468	1.556	6.02	
Hexachloroethane	1	0		6.34	52.33	50	20	0.3	0.524	0.548	4.66	
N-Nitroso-di-n-propylamine	1	0		6.25	49.11	50	20	0.5	0.742	0.729	1.77	
3&4-Methylphenol	1	0		6.25	52.83	50	20		1.017	1.075	5.66	
Naphthalene-d8	1	0	I	6.94	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.38	25.46	25	**		0.158	0.161	1.85	
Nitrobenzene	1	0		6.39	51.85	50	20	0.2	0.303	0.315	3.69	
Isophorone	1	0		6.58	51.41	50	20	0.4	0.566	0.582	2.83	
2-Nitrophenol	1	0		6.64	54.92	50	20	0.1	0.171	0.188	9.85	
2,4-Dimethylphenol	1	0		6.66	52.90	50	20	0.2	0.311	0.329	5.81	
Benzoic Acid	1	0		6.74	51.72	50	**		0.243	0.245	3.44	
bis(2-Chloroethoxy)methane	1	0		6.74	51.67	50	20	0.3	0.331	0.342	3.34	
2,4-Dichlorophenol	1	0		6.82	55.24	50	20	0.2	0.253	0.279	10.49	
1,2,4-Trichlorobenzene	1	0		6.89	52.87	50	**		0.300	0.317	5.75	
Naphthalene	1	0		6.96	51.17	50	20	0.7	0.930	0.952	2.34	
4-Chloroaniline	1	0		6.99	52.78	50	20	0.01	0.365	0.385	5.56	
Hexachlorobutadiene	1	0		7.04	53.59	50	20	0.01	0.171	0.184	7.18	
Caprolactam	1	0		7.28	51.53	50	20	0.01	0.098	0.101	3.07	
4-Chloro-3-methylphenol	1	0		7.36	54.65	50	20	0.2	0.255	0.279	9.31	
2-Methylnaphthalene	1	0		7.50	53.73	50	**	0.4	0.602	0.647	7.46	
1-Methylnaphthalene	1	0		7.58	52.37	50	**	0.4	0.586	0.614	4.73	
Methylnaphthalenes	1	0		7.50	106.31	50	**			1.263	112.63	
1,1'-Biphenyl	1	0		7.88	53.75	50	20	0.01	0.740	0.795	7.50	
Acenaphthene-d10	1	0	I	8.40	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.63	53.26	50	20	0.01	0.574	0.612	6.52	
Hexachlorocyclopentadiene	1	0		7.62	55.75	50	20	0.05	0.340	0.379	11.49	
2,4,6-Trichlorophenol	1	0		7.72	52.47	50	20	0.2	0.392	0.412	4.94	
2,4,5-Trichlorophenol	1	0		7.75	56.47	50	20	0.2	0.397	0.449	12.94	
2-Fluorobiphenyl	1	0	S	7.79	25.04	25	**		1.444	1.446	0.15	
2-Chloronaphthalene	1	0		7.90	52.64	50	20	0.8	1.115	1.174	5.29	
1,4-Dimethylnaphthalene	1	0		8.19	53.25	50	**		0.860	0.916	6.50	
Dimethylnaphthalenes	1	0		8.19	53.25	50	20			0.916	6.50	

S-Surrogate Compound I-Internal Standard Compound Page 1 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118659.D Instrument: GCMS 7

Cont Calibration Date/Time 12/22/2021 8:14:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.97	52.59	50	**		0.792	0.833	5.19	
2-Nitroaniline	1	0		7.99	53.14	50	20	0.01	0.343	0.365	6.29	
Coumarin	1	0		8.17	56.03		**		0.410			
Acenaphthylene	1	0		8.27	51.89	50	20	0.9	1.778	1.845	3.79	
Dimethylphthalate	1	0		8.13	51.65	50	20	0.01	1.316	1.359	3.30	
2,6-Dinitrotoluene	1	0		8.19	55.47	50	20	0.2	0.276	0.307	10.94	
Acenaphthene	1	0		8.43	50.86	50	20	0.9	1.126	1.146	1.71	
3-Nitroaniline	1	0		8.35	54.17	50	20	0.01	0.318	0.345	8.35	
2,4-Dinitrophenol	1	0		8.43	51.91	50	20	0.2	0.153	0.162	3.82	
Dibenzofuran	1	0		8.59	50.79	50	20	0.8	1.624	1.650	1.57	
2,4-Dinitrotoluene	1	0		8.56	54.01	50	20	0.2	0.398	0.430	8.03	
4-Nitrophenol	1	0		8.47	53.53	50	20	0.01	0.209	0.237	7.06	
2,3,4,6-Tetrachlorophenol	1	0		8.69	53.79	50	20	0.01	0.350	0.377	7.58	
Fluorene	1	0		8.92	52.09	50	20	0.9	1.276	1.329	4.19	
4-Chlorophenyl-phenylether	1	0		8.90	53.19	50	20	0.4	0.629	0.669	6.37	
Diethylphthalate	1	0		8.78	52.44	50	20	0.01	1.318	1.383	4.88	
4-Nitroaniline	1	0		8.93	53.47	50	20	0.01	0.334	0.357	6.94	
Atrazine	1	0		9.56	53.58	50	20	0.01	0.382	0.410	7.17	
Phenanthrene-d10	1	0	I	9.88	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.94	56.54	50	20	0.01	0.107	0.122	13.07	
n-Nitrosodiphenylamine	1	0		9.01	53.82	50	20	0.01	0.560	0.603	7.63	
2,4,6-Tribromophenol	1	0	S	9.15	55.70	50	**		0.110	0.123	11.41	
1,2-Diphenylhydrazine	1	0		9.06	47.03	50	**		0.633	0.595	5.94	
4-Bromophenyl-phenylether	1	0		9.40	55.15	50	20	0.1	0.200	0.221	10.31	
Hexachlorobenzene	1	0		9.47	54.61	50	20	0.1	0.226	0.247	9.22	
N-Octadecane	1	0		9.73	53.49	50	**	0.05	0.285	0.305	6.99	
Pentachlorophenol	1	0		9.67	52.82	50	20	0.05	0.148	0.157	5.65	
Phenanthrene	1	0		9.91	51.52	50	20	0.7	0.982	1.012	3.04	
Anthracene	1	0		9.97	52.47	50	20	0.7	0.988	1.036	4.95	
Carbazole	1	0		10.14	52.84	50	20	0.01	0.903	0.954	5.68	
Di-n-butylphthalate	1	0		10.52	54.57	50	20	0.01	1.094	1.194	9.14	
Fluoranthene	1	0		11.26	52.93	50	20	0.6	1.087	1.151	5.86	
Chrysene-d12	1	0	I	12.98	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.53	52.85	50	20	0.6	1.208	1.277	5.70	
Benzidine	1	0		11.42	55.47	50	**		0.694	0.831	10.94	
Terphenyl-d14	1	0	S	11.71	26.40	25	**		0.693	0.732	5.60	
4,4'-DDE	1	0		11.64	55.25		**		0.250			
4,4'-DDD	1	0		12.05	56.15		**		0.445			
Butylbenzylphthalate	1	0		12.31	54.95	50	20	0.01	0.529	0.582	9.90	
4,4'-DDT	1	0		12.41	59.90		**		0.360			
3,3'-Dichlorobenzidine	1	0		12.93	59.18	50	20	0.01	0.452	0.535	18.35	
Benzo[a]anthracene	1	0		12.96	51.83	50	20	0.8	1.184	1.227	3.67	
Chrysene	1	0		13.00	50.91	50	20	0.7	1.055	1.075	1.81	
bis(2-Ethylhexyl)phthalate	1	0		13.00	55.15	50	20	0.01	0.697	0.769	10.31	
Perylene-d12	1	0	I	14.65	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.76	60.07	50	20	0.01	1.095	1.316	20.14	
Benzo[b]fluoranthene	1	0		14.20	54.32	50	20	0.7	1.079	1.173	8.63	
Benzo[k]fluoranthene	1	0		14.23	52.37	50	20	0.7	1.028	1.076	4.75	
Benzo[a]pyrene	1	0		14.58	52.84	50	20	0.7	1.025	1.083	5.68	
Indeno[1,2,3-cd]pyrene	1	0		16.08	51.54	50	20	0.5	1.109	1.143	3.08	
Dibenzo[a,h]anthracene	1	0		16.11	53.06	50	20	0.4	0.952	1.011	6.12	
Benzo[g,h,i]perylene	1	0		16.50	50.62	50	20	0.5	0.974	0.986	1.24	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118659.D Instrument: GCMS 7

Cont Calibration Date/Time 12/22/2021 8:14:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.594	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.860	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound Page 3 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110331.D Instrument: GCMS 9

Cont Calibration Date/Time 12/22/2021 3:22:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.73	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.77	52.14	50	**		1.025	1.068	4.27	
Pyridine	1	0		3.24	56.28	50	**		2.116	2.382	12.56	
N-Nitrosodimethylamine	1	0		3.18	61.53	50	**		1.587	1.953	23.06	
2-Fluorophenol	1	0	S	4.72	58.71	50	**		2.304	2.705	17.41	
Benzaldehyde	1	0		5.55	65.95	50	20	0.01	1.956	2.580	31.91	C1
Aniline	1	0		5.64	58.34	50	**		4.027	4.338	16.68	
Pentachloroethane	1	0		5.68	56.60	50	**	0.05	0.840	0.951	13.20	
bis(2-Chloroethyl)ether	1	0		5.70	56.87	50	20	0.7	2.670	3.037	13.74	
Phenol-d5	1	0	S	5.60	60.38	50	**		2.952	3.564	20.76	
Phenol	1	0		5.61	59.77	50	20	0.8	3.502	4.186	19.54	
2-Chlorophenol	1	0		5.74	58.12	50	20	0.8	2.476	2.878	16.24	
N-Decane	1	0		5.77	62.11	50	**	0.05	2.438	3.029	24.22	
1,3-Dichlorobenzene	1	0		5.87	56.38	50	**		2.685	3.028	12.77	
1,4-Dichlorobenzene-d4	1	0	I	5.92	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.93	52.03	50	20		1.541	1.603	4.07	
1,2-Dichlorobenzene	1	0		6.05	52.83	50	**		1.444	1.526	5.65	
Benzyl alcohol	1	0		6.03	56.84	50	**		0.931	1.058	13.68	
bis(2-chloroisopropyl)ether	1	0		6.14	60.90	50	20	0.01	1.556	1.895	21.81	C1
2-Methylphenol	1	0		6.12	54.28	50	20	0.7	1.346	1.462	8.56	
Acetophenone	1	0		6.24	56.31	50	20	0.01	1.850	2.084	12.63	
Hexachloroethane	1	0		6.33	54.39	50	20	0.3	0.563	0.613	8.78	
N-Nitroso-di-n-propylamine	1	0		6.24	57.24	50	20	0.5	1.064	1.218	14.48	
3&4-Methylphenol	1	0		6.24	54.17	50	20		1.385	1.501	8.34	
Naphthalene-d8	1	0	I	6.92	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.37	30.42	25	**		0.137	0.170	21.68	
Nitrobenzene	1	0		6.38	59.35	50	20	0.2	0.339	0.414	18.69	
Isophorone	1	0		6.57	58.63	50	20	0.4	0.680	0.797	17.25	
2-Nitrophenol	1	0		6.63	61.07	50	20	0.1	0.147	0.183	22.14	C1
2,4-Dimethylphenol	1	0		6.65	53.05	50	20	0.2	0.353	0.374	6.10	
Benzoic Acid	1	0		6.72	53.59	50	**		0.199	0.226	7.19	
bis(2-Chloroethoxy)methane	1	0		6.73	55.07	50	20	0.3	0.408	0.450	10.14	
2,4-Dichlorophenol	1	0		6.81	53.46	50	20	0.2	0.273	0.292	6.92	
1,2,4-Trichlorobenzene	1	0		6.88	51.45	50	**		0.296	0.305	2.90	
Naphthalene	1	0		6.94	53.41	50	20	0.7	1.117	1.116	6.83	
4-Chloroaniline	1	0		6.98	48.98	50	20	0.01	0.421	0.412	2.04	
Hexachlorobutadiene	1	0		7.02	51.51	50	20	0.01	0.169	0.175	3.01	
Caprolactam	1	0		7.25	60.52	50	20	0.01	0.101	0.122	21.04	C1
4-Chloro-3-methylphenol	1	0		7.35	57.79	50	20	0.2	0.278	0.321	15.59	
2-Methylnaphthalene	1	0		7.48	53.74	50	**	0.4	0.689	0.740	7.49	
1-Methylnaphthalene	1	0		7.57	53.69	50	**	0.4	0.637	0.684	7.38	
Methylnaphthalenes	1	0		7.48	107.94	50	**			1.430	115.88	
1,1'-Biphenyl	1	0		7.86	53.90	50	20	0.01	0.816	0.880	7.80	
Acenaphthene-d10	1	0	I	8.37	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.61	49.80	50	20	0.01	0.625	0.623	0.41	
Hexachlorocyclopentadiene	1	0		7.60	17.49	50	20	0.05	0.321	0.117	65.02	C1
2,4,6-Trichlorophenol	1	0		7.71	49.52	50	20	0.2	0.401	0.397	0.95	
2,4,5-Trichlorophenol	1	0		7.74	53.49	50	20	0.2	0.409	0.438	6.98	
2-Fluorobiphenyl	1	0	S	7.77	26.02	25	**		1.485	1.545	4.09	
2-Chloronaphthalene	1	0		7.89	51.33	50	20	0.8	1.248	1.281	2.66	
1,4-Dimethylnaphthalene	1	0		8.17	51.69	50	**		1.055	1.091	3.38	
Dimethylnaphthalenes	1	0		8.17	51.69	50	20			1.091	3.38	

S-Surrogate Compound I-Internal Standard Compound Page 1 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110331.D Instrument: GCMS 9

Cont Calibration Date/Time 12/22/2021 3:22:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.94	51.93	50	**		0.896	0.930	3.87	
2-Nitroaniline	1	0		7.97	60.04	50	20	0.01	0.404	0.509	20.08	
Coumarin	1	0		8.15	52.44		**		0.518			
Acenaphthylene	1	0		8.25	52.91	50	20	0.9	1.961	2.075	5.82	
Dimethylphthalate	1	0		8.11	53.11	50	20	0.01	1.376	1.461	6.21	
2,6-Dinitrotoluene	1	0		8.17	52.59	50	20	0.2	0.267	0.317	5.18	
Acenaphthene	1	0		8.40	52.17	50	20	0.9	1.286	1.342	4.35	
3-Nitroaniline	1	0		8.32	58.75	50	20	0.01	0.321	0.377	17.51	
2,4-Dinitrophenol	1	0		8.42	60.84	50	20	0.2	0.098	0.113	21.68	C1
Dibenzofuran	1	0		8.56	49.15	50	20	0.8	1.878	1.846	1.69	
2,4-Dinitrotoluene	1	0		8.54	58.08	50	20	0.2	0.323	0.409	16.15	
4-Nitrophenol	1	0		8.45	59.66	50	20	0.01	0.236	0.302	19.33	
2,3,4,6-Tetrachlorophenol	1	0		8.67	55.24	50	20	0.01	0.335	0.370	10.48	
Fluorene	1	0		8.88	52.56	50	20	0.9	1.450	1.524	5.13	
4-Chlorophenyl-phenylether	1	0		8.87	51.21	50	20	0.4	0.687	0.703	2.41	
Diethylphthalate	1	0		8.74	53.31	50	20	0.01	1.345	1.434	6.61	
4-Nitroaniline	1	0		8.90	52.50	50	20	0.01	0.361	0.411	4.99	
Atrazine	1	0		9.52	55.03	50	20	0.01	0.371	0.408	10.06	
Phenanthrene-d10	1	0	I	9.85	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.92	58.30	50	20	0.01	0.077	0.092	16.60	
n-Nitrosodiphenylamine	1	0		8.98	52.10	50	20	0.01	0.659	0.686	4.20	
2,4,6-Tribromophenol	1	0	S	9.12	54.17	50	**		0.096	0.110	8.35	
1,2-Diphenylhydrazine	1	0		9.03	60.99	50	**		0.800	0.975	21.98	
4-Bromophenyl-phenylether	1	0		9.37	52.38	50	20	0.1	0.212	0.222	4.76	
Hexachlorobenzene	1	0		9.44	50.32	50	20	0.1	0.228	0.229	0.65	
N-Octadecane	1	0		9.69	61.67	50	**	0.05	0.421	0.519	23.33	
Pentachlorophenol	1	0		9.64	50.84	50	20	0.05	0.130	0.128	1.69	
Phenanthrene	1	0		9.88	51.44	50	20	0.7	1.108	1.140	2.88	
Anthracene	1	0		9.94	52.12	50	20	0.7	1.123	1.170	4.23	
Carbazole	1	0		10.11	52.74	50	20	0.01	1.045	1.102	5.47	
Di-n-butylphthalate	1	0		10.48	57.20	50	20	0.01	1.145	1.309	14.41	
Fluoranthene	1	0		11.22	54.42	50	20	0.6	1.167	1.270	8.85	
Chrysene-d12	1	0	I	12.92	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.49	54.91	50	20	0.6	1.288	1.415	9.82	
Benzidine	1	0		11.37	29.69	50	**		0.757	0.499	40.62	
Terphenyl-d14	1	0	S	11.66	27.60	25	**		0.668	0.738	10.39	
4,4'-DDE	1	0		11.60	54.07		**		0.256			
4,4'-DDD	1	0		12.00	57.90		**		0.432			
Butylbenzylphthalate	1	0		12.25	58.41	50	20	0.01	0.509	0.643	16.81	
4,4'-DDT	1	0		12.35	52.01		**		0.371			
3,3'-Dichlorobenzidine	1	0		12.88	55.06	50	20	0.01	0.459	0.505	10.12	
Benzo[a]anthracene	1	0		12.91	51.31	50	20	0.8	1.258	1.291	2.61	
Chrysene	1	0		12.95	49.84	50	20	0.7	1.228	1.224	0.33	
bis(2-Ethylhexyl)phthalate	1	0		12.94	60.10	50	20	0.01	0.752	0.998	20.19	
Perylene-d12	1	0	I	14.57	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.69	59.23	50	20	0.01	1.084	1.431	18.46	
Benzo[b]fluoranthene	1	0		14.13	52.13	50	20	0.7	1.150	1.199	4.26	
Benzo[k]fluoranthene	1	0		14.17	51.85	50	20	0.7	1.128	1.170	3.70	
Benzo[a]pyrene	1	0		14.51	52.58	50	20	0.7	1.087	1.143	5.16	
Indeno[1,2,3-cd]pyrene	1	0		15.96	51.35	50	20	0.5	1.241	1.275	2.69	
Dibenzo[a,h]anthracene	1	0		15.98	51.08	50	20	0.4	1.017	1.039	2.16	
Benzo[g,h,i]perylene	1	0		16.36	51.21	50	20	0.5	1.030	1.055	2.43	

S-Surrogate Compound I-Internal Standard Compound Page 2 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110331.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/22/2021 3:22:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.662	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.055	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1120911 0099

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109530.D Method: EPA 8270E

Analysis Date/Time: 11/12/21 10:07

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
Eval File Area Limit:	16559-66236		29294-117176		114192-456766		54458-217832		102032-408126		96603-386412		104604-418416	
Eval File Rt Limit:	2.25-3.25		5.43-6.43		6.44-7.44		7.88-8.88		9.35-10.35		12.42-13.42		14.06-15.06	

Data File	Sample													
9M109530.D	CAL BNA@50PPM	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
9M109531.D	CAL BNA@196PPM	25016	2.74	43177	5.93	171873	6.94	81811	8.38	155085	9.85	151041	12.92	158596	14.56
9M109532.D	CAL BNA@160PPM	27353	2.74	47722	5.92	187885	6.94	90029	8.38	170786	9.85	165121	12.92	175539	14.56
9M109533.D	CAL BNA@120PPM	25881	2.74	45223	5.92	180459	6.94	85911	8.38	159730	9.85	154814	12.92	164815	14.55
9M109534.D	CAL BNA@80PPM	27336	2.74	49171	5.92	195077	6.94	93101	8.38	175374	9.85	167242	12.92	179672	14.55
9M109535.D	CAL BNA@10PPM	23963	2.74	43124	5.92	173483	6.93	84895	8.38	159142	9.85	146568	12.91	157496	14.55
9M109536.D	CAL BNA@2PPM	24360	2.74	44423	5.92	175017	6.93	87263	8.37	163318	9.85	148455	12.91	161765	14.55
9M109537.D	CAL BNA@20PPM	28654	2.74	52105	5.92	206203	6.93	99213	8.38	184782	9.85	174287	12.91	186634	14.55
9M109538.D	CAL BNA@0.5PPM	24368	2.74	44096	5.92	177756	6.93	86981	8.37	162760	9.85	149224	12.91	162376	14.55
9M109539.D	ICV BNA@50PPM	27449	2.74	47884	5.92	189949	6.93	91839	8.38	171179	9.85	165497	12.92	174845	14.55

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120911 0100

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M118602.D Method: EPA 8270E

Analysis Date/Time: 12/20/21 13:10

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	34838	2.76	68031	5.94	260912	6.94	134771	8.40	269855	9.88	253227	12.98	280515	14.66
Eval File Area Limit:	17419-69676		34016-136062		130456-521824		67386-269542		134928-539710		126614-506454		140258-561030	
Eval File Rt Limit:	2.26-3.26		5.44-6.44		6.44-7.44		7.9-8.9		9.38-10.38		12.48-13.48		14.16-15.16	

Data File	Sample													
7M118593.D	CAL BNA@2PPM	35233	2.76	67155	5.94	257559	6.95	135828	8.40	268410	9.89	250500	12.97	275027	14.64
7M118594.D	BNA@10PPM	37757	2.76	72619	5.94	284437	6.94	150779	8.39	298511	9.88	283947	12.97	315737	14.64
7M118595.D	CAL BNA@196PPM	32007	2.76	58849	5.94	227739	6.95	116144	8.40	239007	9.89	212036	12.99	236262	14.65
7M118596.D	CAL BNA@20PPM	27470	2.76	55222	5.94	215050	6.95	111697	8.40	220018	9.89	207047	12.97	232722	14.65
7M118597.D	CAL BNA@10PPM	32386	2.76	64172	5.94	250846	6.95	132709	8.40	262733	9.89	247048	12.97	270114	14.64
7M118598.D	CAL BNA@160PPM	35996	2.76	66950	5.94	259240	6.95	133754	8.40	271793	9.89	248100	12.99	278387	14.65
7M118599.D	CAL BNA@120PPM	43698	2.76	84561	5.94	325292	6.95	167472	8.40	342325	9.89	313315	12.99	349463	14.65
7M118600.D	CAL BNA@80PPM	33653	2.75	68542	5.94	265995	6.94	136662	8.40	276631	9.88	257540	12.97	287825	14.64
7M118601.D	CAL BNA@0.5PPM	34256	2.76	68297	5.94	267099	6.94	143587	8.39	285413	9.88	273792	12.97	300037	14.65
7M118602.D	CAL BNA@50PPM	34838	2.76	68031	5.94	260912	6.94	134771	8.40	269855	9.88	253227	12.98	280515	14.66
7M118603.D	ICV BNA@50PPM	32732	2.76	66127	5.94	253336	6.96	130860	8.42	262971	9.91	246959	12.98	269681	14.67

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120911 0101

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M88951.D Method: EPA 8270E

Analysis Date/Time: 12/20/21 14:31

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	61545	2.59	116979	5.80	462422	6.80	230893	8.22	428330	9.68	363390	12.73	396176	14.34
Eval File Area Limit:	30772-123090		58490-233958		231211-924844		115446-461786		214165-856660		181695-726780		198088-792352	
Eval File Rt Limit:	2.09-3.09		5.3-6.3		6.3-7.3		7.72-8.72		9.18-10.18		12.23-13.23		13.84-14.84	

Data File	Sample													
10M88943.D	CAL BNA@10PPM	57964	2.59	112192	5.80	442861	6.80	222463	8.22	408658	9.68	348294	12.72	376875	14.34
10M88944.D	CAL BNA@2PPM	61696	2.60	119532	5.80	473794	6.80	237266	8.22	443389	9.68	369142	12.72	403378	14.34
10M88945.D	CAL BNA@196PPM	57952	2.60	107477	5.80	435608	6.80	216862	8.23	403050	9.69	327565	12.74	382278	14.34
10M88946.D	CAL BNA@160PPM	56472	2.60	108449	5.80	431573	6.80	217773	8.23	404486	9.68	333095	12.73	384471	14.34
10M88947.D	CAL BNA@120PPM	56405	2.60	110805	5.80	436651	6.80	220867	8.23	409718	9.68	337541	12.73	377772	14.34
10M88948.D	CAL BNA@80PPM	55802	2.59	111406	5.80	436603	6.80	220978	8.22	415759	9.68	347198	12.73	385133	14.34
10M88949.D	CAL BNA@20PPM	60438	2.60	120649	5.80	472263	6.80	238451	8.22	443165	9.68	370827	12.73	403380	14.34
10M88950.D	CAL BNA@0.5PPM	58654	2.60	116425	5.80	458329	6.80	235214	8.22	445695	9.68	373946	12.72	409095	14.34
10M88951.D	CAL BNA@50PPM	61545	2.59	116979	5.80	462422	6.80	230893	8.22	428330	9.68	363390	12.73	396176	14.34
10M88952.D	ICV BNA@50PPM	52442	2.60	104719	5.80	409195	6.80	203495	8.22	382069	9.68	322075	12.73	347229	14.34

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120911 0102

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M88954.D Method: EPA 8270E

Analysis Date/Time: 12/21/21 09:29

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	59279	2.58	111994	5.80	438538	6.80	221877	8.22	413638	9.68	342210	12.73	373870	14.34
Eval File Area Limit:	29640-118558		55997-223988		219269-877076		110938-443754		206819-827276		171105-684420		186935-747740	
Eval File Rt Limit:	2.08-3.08		5.3-6.3		6.3-7.3		7.72-8.72		9.18-10.18		12.23-13.23		13.84-14.84	

Data File	Sample													
10M88955.D	SMB95917	50506	2.57	107757	5.80	424590	6.80	210510	8.22	397104	9.68	326656	12.73	340718	14.34
10M88956.D	WMB95951	56976	2.60	110955	5.80	428602	6.80	212412	8.22	391697	9.68	318079	12.72	344959	14.33
10M88957.D	AD27908-009	54651	2.59	104239	5.80	405699	6.80	197176	8.22	369291	9.68	298801	12.72	325266	14.33
10M88958.D	AD27908-010	54131	2.60	104865	5.80	404897	6.80	198891	8.22	367060	9.68	300071	12.72	324931	14.33
10M88959.D	AD27908-011	58700	2.60	113718	5.80	436324	6.80	209403	8.22	388151	9.68	318650	12.72	345204	14.33
10M88960.D	AD27908-012	51596	2.59	102534	5.80	397449	6.80	192951	8.22	358284	9.68	291294	12.72	317087	14.34
10M88961.D	SMB95950(MS)	46943	2.56	85680	5.80	331209	6.80	163862	8.22	307326	9.68	251704	12.73	269138	14.33
10M88962.D	SMB95953(MS)	53280	2.56	91585	5.80	357088	6.80	181039	8.22	334226	9.68	277630	12.72	298815	14.33
10M88963.D	SMB95954(MS)	54573	2.56	93133	5.80	360855	6.80	180099	8.22	335179	9.68	276759	12.72	297267	14.33
10M88964.D	SMB95950	47270	2.56	84541	5.80	328948	6.80	163249	8.22	306013	9.68	248393	12.72	265497	14.33
10M88965.D	SMB95953	56116	2.57	98685	5.80	381278	6.80	190724	8.22	353288	9.68	287738	12.72	309095	14.33
10M88966.D	SMB95954	58100	2.57	100903	5.80	393413	6.80	194569	8.22	361729	9.68	293527	12.72	314155	14.33

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120911 0103

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M118659.D Method: EPA 8270E

Analysis Date/Time: 12/22/21 08:14

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	33382	2.73	74681	5.93	284256	6.94	150089	8.40	294590	9.88	266116	12.98	278400	14.65
Eval File Area Limit:	16691-66764		37340-149362		142128-568512		75044-300178		147295-589180		133058-532232		139200-556800	
Eval File Rt Limit:	2.23-3.23		5.43-6.43		6.44-7.44		7.9-8.9		9.38-10.38		12.48-13.48		14.15-15.15	

Data File	Sample													
7M118660.D	SMB95953	33429	2.74	73555	5.93	280950	6.94	141161	8.39	263740	9.88	223805	12.97	222766	14.64
7M118661.D	SMB95954	33262	2.73	73787	5.93	280296	6.93	140831	8.39	258178	9.88	218257	12.97	224615	14.63
7M118662.D	AD27953-001	34174	2.74	73616	5.93	273602	6.93	128746	8.39	235178	9.88	191946	12.97	197297	14.64
7M118663.D	AD27953-002	29408	2.73	67999	5.93	247197	6.93	122588	8.39	218841	9.88	179572	12.97	185704	14.63
7M118664.D	AD27810-001	30437	2.74	66540	5.93	248526	6.94	119870	8.39	216657	9.88	186130	12.97	195558	14.65
7M118665.D	AD27810-002	31488	2.74	66697	5.93	240679	6.94	112062	8.39	205650	9.88	177786	12.97	190661	14.64
7M118666.D	AD27946-001	31708	2.73	66370	5.93	218472	6.94	99500	8.39	198111	9.88	177165	12.97	188893	14.64
7M118667.D	AD27946-004	31191	2.74	70274	5.93	238254	6.94	106808	8.39	212765	9.88	187879	12.97	196178	14.65
7M118668.D	AD27946-007	29607	2.74	64934	5.93	216387	6.94	98647	8.40	200002	9.88	171681	12.97	183112	14.64
7M118669.D	AD27946-010	32047	2.73	68965	5.93	226405	6.95	103050	8.40	214590	9.89	189307	12.97	197282	14.64
7M118670.D	AD27946-013	30907	2.74	68957	5.93	218420	6.94	100630	8.40	207514	9.88	182504	12.98	190683	14.66
7M118671.D	AD27904-018	34333	2.74	81110	5.93	310529	6.94	158971	8.40	295911	9.88	232437	12.97	245993	14.65
7M118672.D	AD27904-016	34816	2.75	79367	5.93	303732	6.94	157371	8.40	293961	9.89	240400	12.97	243704	14.66
7M118673.D	AD27904-026(30X)	39770	2.74	88130	5.93	294976	6.94	156088	8.39	290205	9.88	230814	12.98	247267	14.66
7M118674.D	AD27765-013(10X)	34336	2.74	78280	5.93	227481	6.95	120539	8.41	236245	9.90	233138	12.98	249756	14.66
7M118675.D	AD27893-006	34922	2.73	76161	5.93	281131	6.94	140062	8.40	256892	9.88	213808	12.97	223538	14.66
7M118676.D	SMB95972	33459	2.73	69496	5.93	258989	6.94	127465	8.40	237198	9.88	193475	12.97	203695	14.64
7M118677.D	AD27908-007	31113	2.73	70202	5.93	258565	6.94	125962	8.40	237557	9.88	195911	12.97	202653	14.66
7M118678.D	AD27908-008	32962	2.74	74026	5.93	272746	6.94	135859	8.40	253856	9.89	212728	12.97	216307	14.65
7M118679.D	AD27927-005	34160	2.73	74622	5.93	273634	6.94	133614	8.39	250820	9.88	209591	12.97	218176	14.65
7M118680.D	AD27927-007	40966	2.73	88975	5.93	324124	6.94	156725	8.40	294698	9.88	252432	12.97	259264	14.65
7M118681.D	AD27928-013	34491	2.74	74259	5.93	273423	6.94	135002	8.39	251973	9.88	218033	12.97	226514	14.64
7M118682.D	AD27928-014	35879	2.73	78400	5.93	290502	6.94	143590	8.39	264459	9.88	228199	12.97	236613	14.65
7M118683.D	AD27928-042	55638	2.74	71547	5.93	269786	6.94	131354	8.39	246645	9.88	208164	12.97	219165	14.64
7M118684.D	AD27904-016(MS)	66258	2.74	121201	5.93	283929	6.94	196347	8.39	298560	9.88	234115	12.97	246046	14.64
7M118685.D	AD27904-016(MSD)	58083	2.74	129902	5.93	471112	6.94	230699	8.39	387604	9.88	303580	12.97	319381	14.64
7M118686.D	AD27977-003	46303	2.74	91615	5.93	342140	6.93	164882	8.39	307581	9.88	269714	12.97	283573	14.64
7M118687.D	AD27977-006	45640	2.74	90868	5.93	334281	6.93	164590	8.39	304808	9.88	262709	12.97	98709 A	14.64
7M118688.D	AD27977-006	45394	2.74	65309	5.93	318058	6.95	163955	8.41	290023	9.90	93727 A	12.98	99801 A	14.66

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1120911 0104

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110331.D Method: EPA 8270E

Analysis Date/Time: 12/22/21 15:22

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	25988	2.73	49845	5.92	203534	6.92	101705	8.37	191889	9.85	174736	12.92	183740	14.57
Eval File Area Limit:	12994-51976		24922-99690		101767-407068		50852-203410		95944-383778		87368-349472		91870-367480	
Eval File Rt Limit:	2.23-3.23		5.42-6.42		6.42-7.42		7.87-8.87		9.35-10.35		12.42-13.42		14.07-15.07	

Data File	Sample													
9M110330.D	BNA@50PPM	15370	2.73	35387	5.92	145732	6.92	72625	8.37	135911	9.85	120588	12.92	129475	14.57
9M110332.D	AD27983-001	28677	2.71	50894	5.91	205468	6.92	102307	8.37	189124	9.85	156432	12.92	166892	14.57
9M110333.D	AD27844-001	26539	2.72	49097	5.92	197156	6.92	96227	8.37	184568	9.85	156144	12.92	161597	14.57
9M110334.D	AD27822-001(3X)	27564	2.73	50979	5.92	205327	6.92	100619	8.37	181373	9.85	152845	12.92	157753	14.57
9M110335.D	AD27918-001	27361	2.71	50871	5.92	203450	6.92	94167	8.37	146204	9.85	143222	12.92	158971	14.57
9M110336.D	AD27925-002	27250	2.72	51390	5.92	206162	6.92	102641	8.37	188084	9.85	151017	12.92	158027	14.57
9M110337.D	AD27925-004(5X)	28389	2.74	52163	5.92	211798	6.92	103809	8.37	188769	9.85	149258	12.92	155215	14.57
9M110338.D	AD27908-002(3X)	27965	2.74	52220	5.92	208304	6.92	102268	8.37	188072	9.85	147712	12.92	154760	14.57
9M110339.D	AD27908-005(5X)	29492	2.74	54491	5.92	220335	6.92	108105	8.37	193920	9.85	146173	12.92	153186	14.57
9M110340.D	AD27908-004	24068	2.72	45958	5.92	182346	6.92	87206	8.37	157044	9.85	122453	12.92	128063	14.57
9M110341.D	AD27928-041	23491	2.73	44517	5.92	177719	6.92	86940	8.37	156844	9.85	120586	12.92	129000	14.57
9M110342.D	AD27928-028	25569	2.73	47851	5.92	192151	6.92	93264	8.37	169342	9.85	130268	12.92	135142	14.57
9M110343.D	AD27928-027(10X)	28379	2.74	52666	5.92	211675	6.92	104189	8.37	182538	9.85	140628	12.92	149299	14.57
9M110344.D	SMB95963	26124	2.71	49524	5.92	199840	6.92	103368	8.37	193390	9.85	153180	12.92	158641	14.57
9M110345.D	SMB95972	27060	2.71	49532	5.92	200396	6.92	99567	8.37	181425	9.85	147635	12.92	147963	14.57
9M110346.D	AD27924-004	25566	2.72	48627	5.92	196911	6.92	96486	8.37	175572	9.85	137432	12.92	141032	14.57
9M110347.D	AD27924-004(MSD)	26521	2.71	49315	5.92	198205	6.92	96236	8.37	175928	9.85	141223	12.92	145741	14.57
9M110348.D	AD27924-004(MS)	25562	2.71	48322	5.92	190949	6.92	92982	8.37	167826	9.85	136762	12.92	140198	14.57
9M110349.D	AD27946-001(MS)	25994	2.72	48780	5.92	188753	6.92	88140	8.37	163641	9.85	133926	12.92	138681	14.57
9M110350.D	AD27946-001(MSD)	24928	2.71	46595	5.92	181951	6.92	84675	8.37	156791	9.85	127515	12.92	133243	14.57
9M110351.D	AD27765-004(3X)(R)	27830	2.73	51803	5.92	181813	6.92	88511	8.38	158646	9.85	138439	12.92	149423	14.57
9M110352.D	AD27765-013(30X)	28988	2.74	53033	5.92	201717	6.92	93066	8.37	170779	9.85	148870	12.92	156826	14.57
9M110353.D	AD27765-013(30X)(M	9551A	2.74	17186A	5.92	66649A	6.92	32057A	8.37	54923A	9.85	47490A	12.92	49638A	14.56
9M110354.D	AD27765-013(30X)(M	10283A	2.75	18550A	5.92	71350A	6.92	34361A	8.37	58151A	9.85	50734A	12.92	53370A	14.56
9M110355.D	AD27792-003(10X)	28743	2.74	52181	5.92	207082	6.92	100705	8.37	183926	9.85	143105	12.92	149591	14.57
9M110356.D	AD27792-008(10X)	27907	2.74	52297	5.92	202542	6.92	93202	8.37	142662	9.86	131069	12.92	143391	14.57
9M110357.D	AD27755-009(3X)	26116	2.73	49306	5.92	197900	6.92	97373	8.37	176932	9.85	137666	12.92	142634	14.57

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27810-001
Client Id: SB-012SS
Data File: 7G56254.D
Analysis Date: 12/19/21 13:11
Date Rec/Extracted: 12/09/21-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	70	U				

Worksheet #: 623486

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56254.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:11
Operator : ABM/AH
Sample : AD27810-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:22:58 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

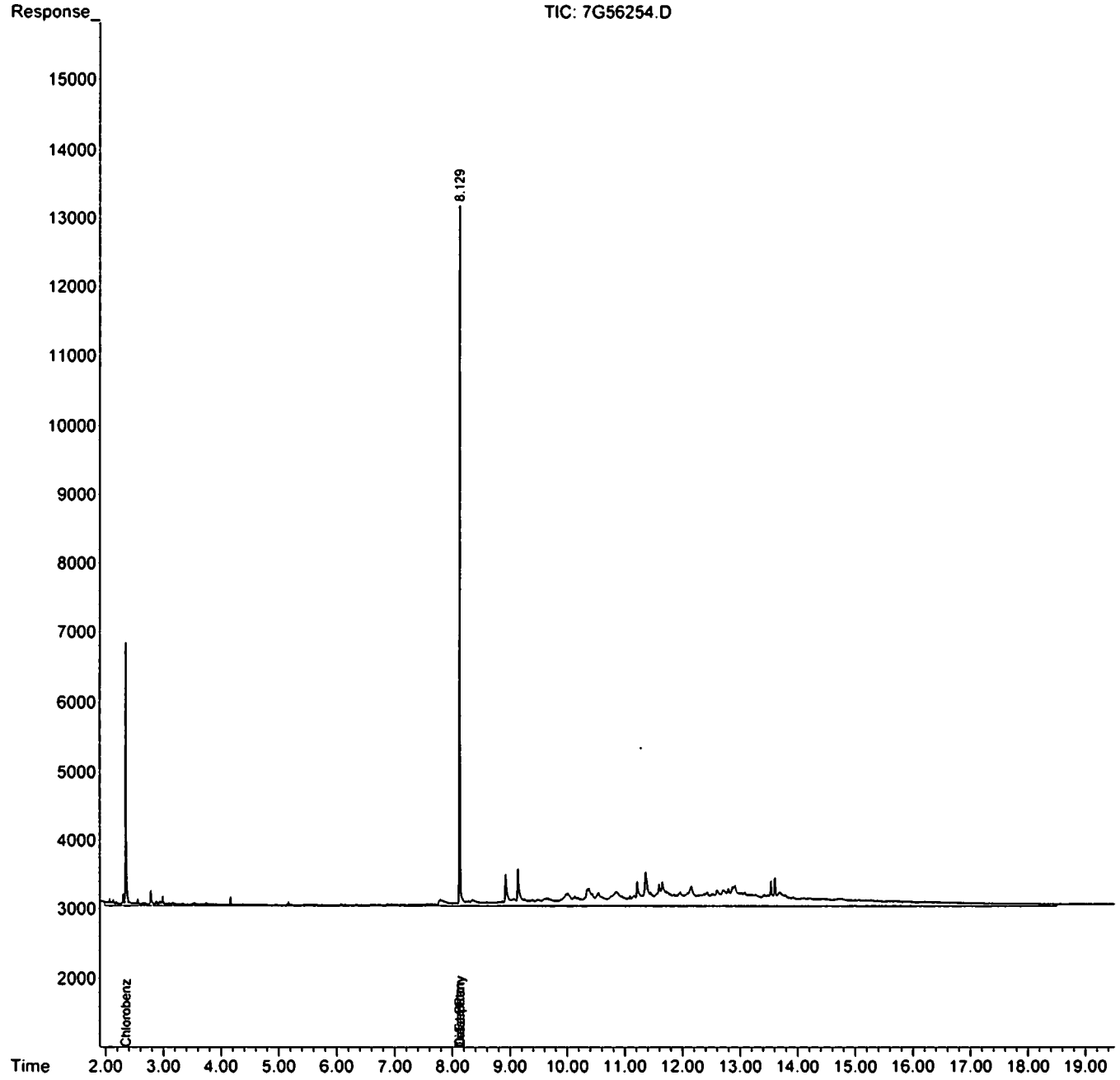
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.348	28806	8.607		
23)	O-Terphenyl	8.130	78074	12.716		
24)d	Diesel Range Organics(T	8.129f	351815	65.962		m
25)t	Total Petroleum Hydroca	8.129f	875753	167.976		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56254.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:11
Operator : ABM/AH
Sample : AD27810-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:22:58 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27810-002
Client Id: SB-013SS
Data File: 7G56255.D
Analysis Date: 12/19/21 13:41
Date Rec/Extracted: 12/09/21-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	72	U				

Worksheet #: 623486

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56255.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:41
Operator : ABM/AH
Sample : AD27810-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:25:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

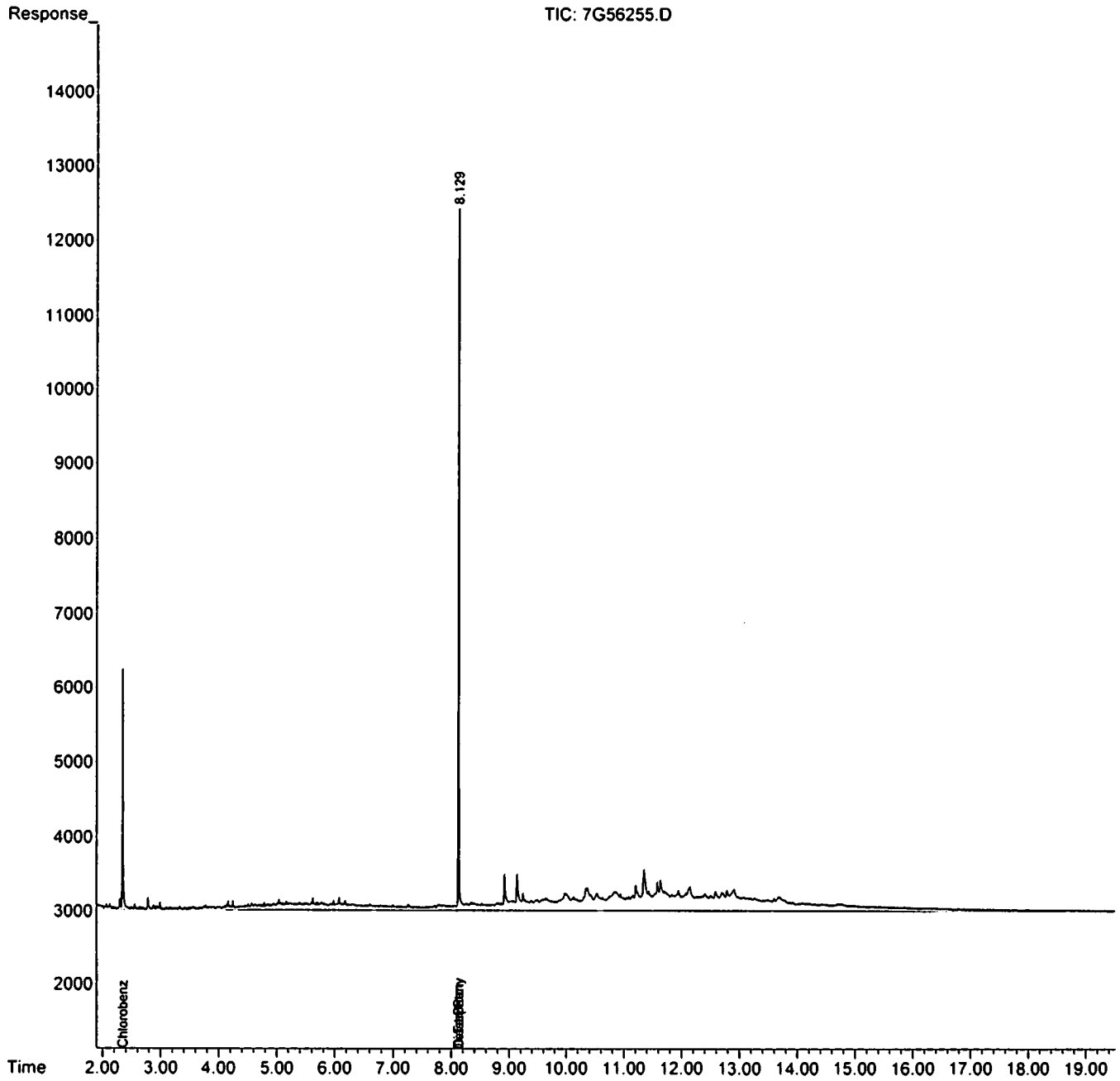
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.347	24876	7.433		
23)	O-Terphenyl	8.129	69591	11.334		
24)d	Diesel Range Organics(T	8.129f	522005	97.871		m
25)t	Total Petroleum Hydroca	8.129f	1001623	192.119		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56255.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:41
Operator : ABM/AH
Sample : AD27810-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:25:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95921
Client Id:
Data File: 7G56253.D
Analysis Date: 12/19/21 12:42
Date Rec/Extracted: NA-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 623486

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

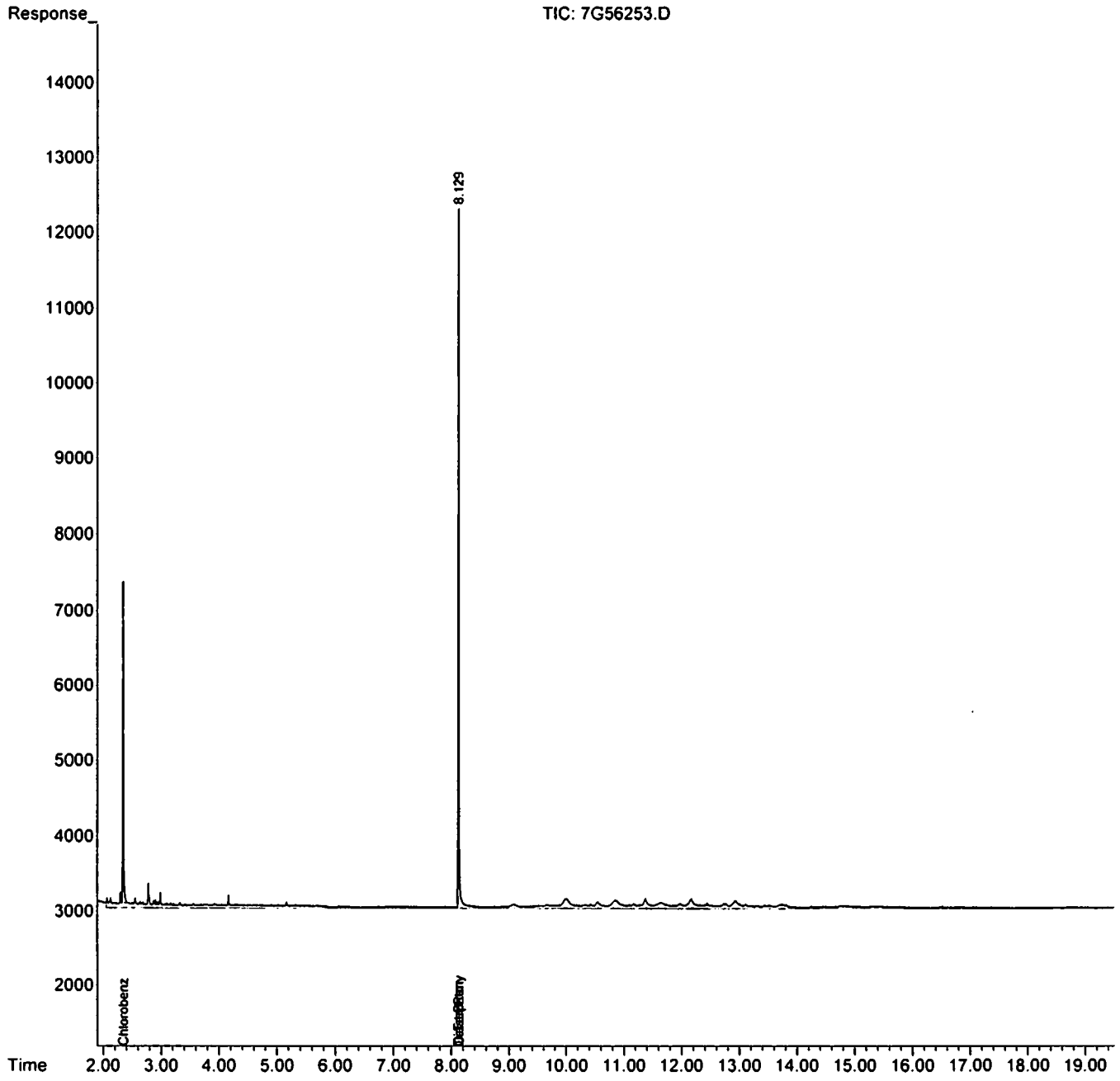
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.347	31915	9.536		
23)	O-Terphenyl	8.129	75611	12.315		
24)d	Diesel Range Organics(T	8.129f	224348	42.063		m
25)t	Total Petroleum Hydroca	8.129f	408399	78.334		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56253.D	SMB95921	S	12/19/21 12:42	1		48	62				
7G56254.D	AD27810-001	S	12/19/21 13:11	1		43	64				
7G56255.D	AD27810-002	S	12/19/21 13:41	1		37	57				
7G56241.D	SMB95921(MS)	S	12/17/21 17:32	1		45	53				
7G56242.D	AD27887-002	S	12/17/21 17:58	1		37	60				
7G56243.D	AD27887-002(MS)	S	12/17/21 18:24	1		41	122				
7G56244.D	AD27887-002(MSD)	S	12/17/21 18:50	1		39	57				

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56241.D	SMB95921(MS)	12/17/2021 5:32:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1682.29	0	3000	56	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3647.31	2085.89	3000	52	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3711.26	2085.89	3000	54	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Duplicate(If applicable):	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	3711.26	3647.31	1.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95921
Blank Data File: 7G56253.D
Matrix: Soil

Blank Analysis Date: 12/19/21 12:42
Blank Extraction Date: 12/17/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27810-001	7G56254.D	12/19/21 13:11
AD27810-002	7G56255.D	12/19/21 13:41
AD27887-002(MSD	7G56244.D	12/17/21 18:50
AD27887-002(MS)	7G56243.D	12/17/21 18:24
AD27887-002	7G56242.D	12/17/21 17:58
SMB95921(MS)	7G56241.D	12/17/21 17:32

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56236.D	INST BLK	12/17/21 11:30	Soil					
7G56237.D	TPH@20PPM	12/17/21 12:22	Soil					
7G56238.D	CAL TPH@20PPM	12/17/21 15:28	Soil	7G56238.	8.1393	0		
7G56239.D	INST BLK	12/17/21 15:54	Soil	7G56238.	0.0000	200		
7G56240.D	SMB95921	12/17/21 17:07	Soil	7G56238.	8.1411	0.0221		
7G56241.D	SMB95921(MS)	12/17/21 17:32	Soil	7G56238.	8.1369	0.0295		
7G56242.D	AD27887-002	12/17/21 17:58	Soil	7G56238.	8.1359	0.0418		
7G56243.D	AD27887-002(MS)	12/17/21 18:24	Soil	7G56238.	8.1325	0.0836		
7G56244.D	AD27887-002(MSD)	12/17/21 18:50	Soil	7G56238.	8.1313	0.0983		
7G56245.D	27810-001	12/17/21 19:16	Soil	7G56238.	8.1340	0.0651		
7G56246.D	27810-002	12/17/21 19:42	Soil	7G56238.	8.1333	0.0737		
7G56247.D	27822-001	12/17/21 20:08	Soil	7G56238.	8.1332	0.075		
7G56248.D	CAL TPH@20PPM	12/17/21 20:34	Soil	7G56238.	8.1354	0.0479		
7G56249.D	CAL TPH@20PPM	12/17/21 21:00	Soil	7G56238.	8.1345	0.059		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7
Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56250.D	INST BLK	12/19/21 10:34	Soil					
7G56251.D	CAL TPH@20PPM	12/19/21 11:38	Soil	7G56251.	8.1383	0		
7G56252.D	INST BLK	12/19/21 12:12	Soil	7G56251.	0.0000	200		
7G56253.D	SMB95921	12/19/21 12:42	Soil	7G56251.	8.1295	0.1082		
7G56254.D	AD27810-001	12/19/21 13:11	Soil	7G56251.	8.1296	0.107		
7G56255.D	AD27810-002	12/19/21 13:41	Soil	7G56251.	8.1293	0.1106		
7G56256.D	AD27822-001	12/19/21 14:11	Soil	7G56251.	8.1310	0.0897		
7G56257.D	CAL TPH@20PPM	12/19/21 14:40	Soil	7G56251.	8.1333	0.0615		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

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Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Ava	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56238.D				7G56248.D				7G56251.D				7G56257.D						
Method:				8015				8015				8015				8015						
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM						
Calibration Date/Time				12/17/21 15:28				12/17/21 20:34				12/19/21 11:38				12/19/21 14:40						
					Conc				Conc				Conc				Conc				Conc	
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff
C8	20	1	0	17.46	20	12.7		17.22	20	13.9		18.96	20	5.2		16.9	20	15.5				
C9	20	1	0	18.41	20	8.0		18.06	20	9.7		19.59	20	2.0		17.08	20	14.6				
C10	20	1	0	18.79	20	6.0		18.74	20	6.3		20.47	20	2.3		17.41	20	13.0				
C12	20	1	0	19.89	20	0.6		19.37	20	3.1		19.51	20	2.4		15.99	20	20.1				
C14	20	1	0	21.19	20	6.0		20.38	20	1.9		22.69	20	13.5		19.48	20	2.6				
C16	20	1	0	21.11	20	5.6		20.54	20	2.7		23.3	20	16.5		19.94	20	0.3				
C17	20	1	0	17.32	20	13.4		17.84	20	10.8		20.37	20	1.9		15.84	20	20.8*				
Pristane	20	1	0	27.64	20	38.2*		25.08	20	25.4*		27.87	20	39.4*		26.03	20	30.2*				
C18	20	1	0	22.63	20	13.2		21.85	20	9.3		23.42	20	17.1		20.41	20	2.0				
Phytane	20	1	0	23.33	20	16.7		21.82	20	9.1		22.78	20	13.9		20.18	20	0.9				
C20	20	1	0	21.8	20	9.0		20.85	20	4.3		24.95	20	24.8*		21.92	20	9.6				
C22	20	1	0	22.17	20	10.9		21.32	20	6.6		24.71	20	23.6*		21.76	20	8.8				
C24	20	1	0	22.27	20	11.4		21.38	20	6.9		24.9	20	24.5*		21.66	20	8.3				
C26	20	1	0	22.22	20	11.1		21.52	20	7.6		24.96	20	24.8*		21.93	20	9.7				
C28	20	1	0	22.51	20	12.6		21.9	20	9.5		25.14	20	25.7*		22.39	20	12.0				
C30	20	1	0	22.51	20	12.6		21.72	20	8.6		25.17	20	25.9*		22.81	20	14.1				
C32	20	1	0	22.15	20	10.8		20.94	20	4.7		25.19	20	26.0*		23.13	20	15.6				
C34	20	1	0	20.58	20	2.9		18.45	20	7.7		23.51	20	17.6		22.28	20	11.4				
C36	20	1	0	19.03	20	4.8		15.79	20	21.1*		20.82	20	4.1		20.73	20	3.6				
C40	20	1	0	16.08	20	19.6		11.86	20	40.7*		16.08	20	19.6		17.15	20	14.3				
Chlorobenzene	20	1	0	19.25	20	3.8		18.88	20	5.6		20.75	20	3.8		18.19	20	9.0				
O-Terphenyl	20	1	0	22.45	20	12.3		21.59	20	8.0		25.54	20	27.7*		22.38	20	11.9				
Average Difference	20	1	0			11.0				10.2				17.9				12.9				

Flags/Notes: ** - Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27810-001
Client Id: SB-012SS
Data File: 7G56254.D
Analysis Date: 12/19/21 13:11
Date Rec/Extracted: 12/09/21-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	70	U				

Worksheet #: 623487

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56254.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:11
Operator : ABM/AH
Sample : AD27810-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:22:58 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

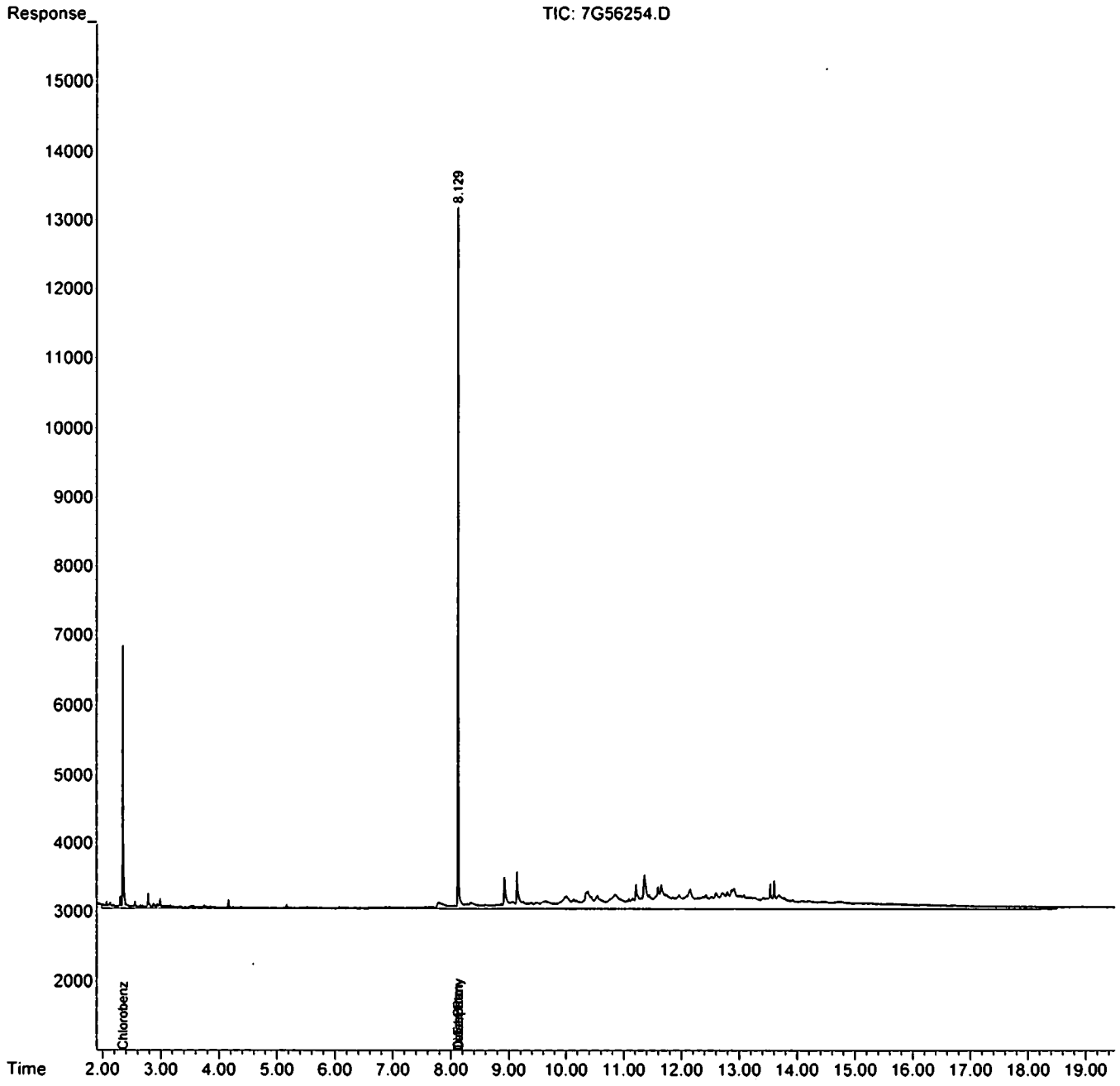
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.348	28806	8.607		
23)	O-Terphenyl	8.130	78074	12.716		
24)d	Diesel Range Organics(T	8.129f	351815	65.962		m
25)t	Total Petroleum Hydroca	8.129f	875753	167.976		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56254.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:11
Operator : ABM/AH
Sample : AD27810-001
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:22:58 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27810-002
Client Id: SB-013SS
Data File: 7G56255.D
Analysis Date: 12/19/21 13:41
Date Rec/Extracted: 12/09/21-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	72	U				

Worksheet #: 623487

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56255.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:41
Operator : ABM/AH
Sample : AD27810-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:25:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

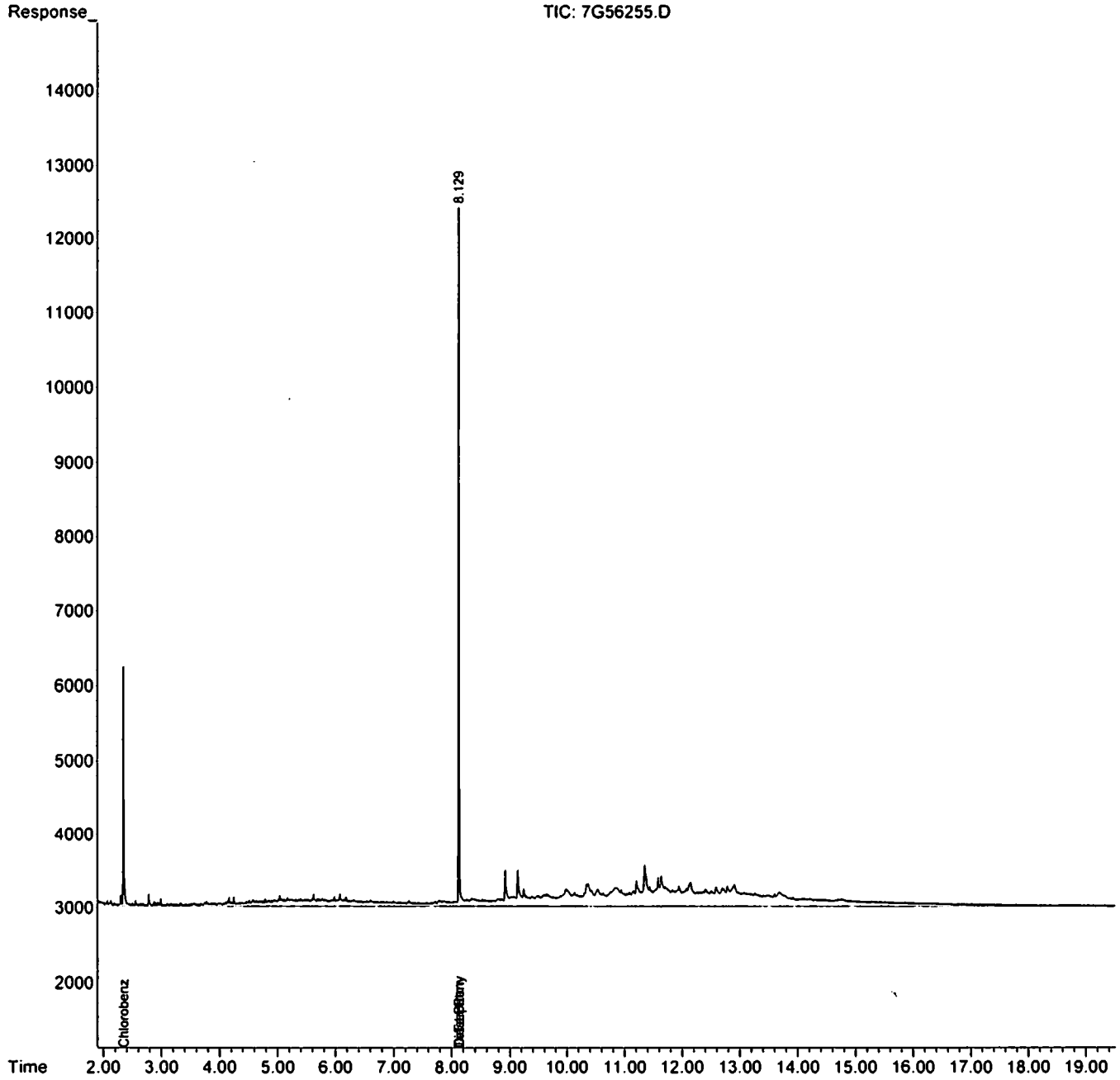
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.347	24876	7.433		
23)	O-Terphenyl	8.129	69591	11.334		
24)d	Diesel Range Organics(T	8.129f	522005	97.871		m
25)t	Total Petroleum Hydroca	8.129f	1001623	192.119		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56255.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 13:41
Operator : ABM/AH
Sample : AD27810-002
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:25:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95921
Client Id:
Data File: 7G56253.D
Analysis Date: 12/19/21 12:42
Date Rec/Extracted: NA-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 623487

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

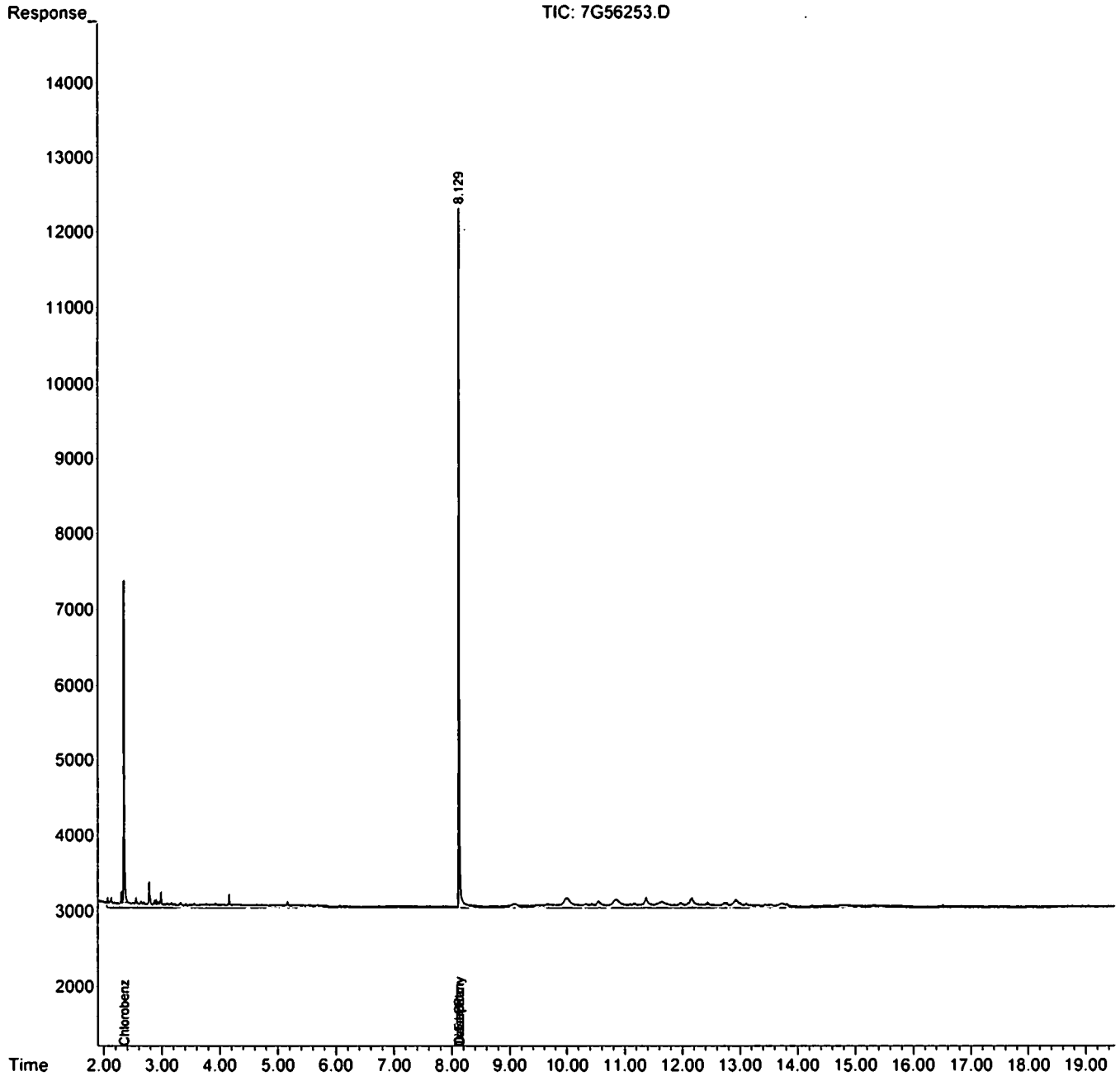
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.347	31915	9.536		
23)	O-Terphenyl	8.129	75611	12.315		
24)d	Diesel Range Organics(T	8.129f	224348	42.063		m
25)t	Total Petroleum Hydroca	8.129f	408399	78.334		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56253.D	SMB95921	S	12/19/21 12:42	1		48	62				
7G56254.D	AD27810-001	S	12/19/21 13:11	1		43	64				
7G56255.D	AD27810-002	S	12/19/21 13:41	1		37	57				
7G56241.D	SMB95921(MS)	S	12/17/21 17:32	1		45	53				
7G56242.D	AD27887-002	S	12/17/21 17:58	1		37	60				
7G56243.D	AD27887-002(MS)	S	12/17/21 18:24	1		41	122				
7G56244.D	AD27887-002(MSD)	S	12/17/21 18:50	1		39	57				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56241.D	SMB95921(MS)	12/17/2021 5:32:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1682.29**	**0**	**3000**	**56**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**3647.31**	**2085.89**	**3000**	**52**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**3711.26**	**2085.89**	**3000**	**54**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Duplicate(If applicable):	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**3711.26**	**3647.31**	**1.7**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95921
Blank Data File: 7G56253.D
Matrix: Soil

Blank Analysis Date: 12/19/21 12:42
Blank Extraction Date: 12/17/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27810-001	7G56254.D	12/19/21 13:11
AD27810-002	7G56255.D	12/19/21 13:41
AD27887-002(MSD	7G56244.D	12/17/21 18:50
AD27887-002(MS)	7G56243.D	12/17/21 18:24
AD27887-002	7G56242.D	12/17/21 17:58
SMB95921(MS)	7G56241.D	12/17/21 17:32

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56236.D	INST BLK	12/17/21 11:30	Soil					
7G56237.D	TPH@20PPM	12/17/21 12:22	Soil					
7G56238.D	CAL TPH@20PPM	12/17/21 15:28	Soil	7G56238.	8.1393	0		
7G56239.D	INST BLK	12/17/21 15:54	Soil	7G56238.	0.0000	200		
7G56240.D	SMB95921	12/17/21 17:07	Soil	7G56238.	8.1411	0.0221		
7G56241.D	SMB95921(MS)	12/17/21 17:32	Soil	7G56238.	8.1369	0.0295		
7G56242.D	AD27887-002	12/17/21 17:58	Soil	7G56238.	8.1359	0.0418		
7G56243.D	AD27887-002(MS)	12/17/21 18:24	Soil	7G56238.	8.1325	0.0836		
7G56244.D	AD27887-002(MSD)	12/17/21 18:50	Soil	7G56238.	8.1313	0.0983		
7G56245.D	27810-001	12/17/21 19:16	Soil	7G56238.	8.1340	0.0651		
7G56246.D	27810-002	12/17/21 19:42	Soil	7G56238.	8.1333	0.0737		
7G56247.D	27822-001	12/17/21 20:08	Soil	7G56238.	8.1332	0.075		
7G56248.D	CAL TPH@20PPM	12/17/21 20:34	Soil	7G56238.	8.1354	0.0479		
7G56249.D	CAL TPH@20PPM	12/17/21 21:00	Soil	7G56238.	8.1345	0.059		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56250.D	INST BLK	12/19/21 10:34	Soil					
7G56251.D	CAL TPH@20PPM	12/19/21 11:38	Soil	7G56251.	8.1383	0		
7G56252.D	INST BLK	12/19/21 12:12	Soil	7G56251.	0.0000	200		
7G56253.D	SMB95921	12/19/21 12:42	Soil	7G56251.	8.1295	0.1082		
7G56254.D	AD27810-001	12/19/21 13:11	Soil	7G56251.	8.1296	0.107		
7G56255.D	AD27810-002	12/19/21 13:41	Soil	7G56251.	8.1293	0.1106		
7G56256.D	AD27822-001	12/19/21 14:11	Soil	7G56251.	8.1310	0.0897		
7G56257.D	CAL TPH@20PPM	12/19/21 14:40	Soil	7G56251.	8.1333	0.0615		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

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Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56238.D				7G56248.D				7G56251.D				7G56257.D						
Method:				8015				8015				8015				8015						
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM						
Calibration Date/Time				12/17/21 15:28				12/17/21 20:34				12/19/21 11:38				12/19/21 14:40						
				Conc				Conc				Conc				Conc				Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff
C8	20	1	0	17.46	20	12.7		17.22	20	13.9		18.96	20	5.2		16.9	20	15.5				
C9	20	1	0	18.41	20	8.0		18.06	20	9.7		19.59	20	2.0		17.08	20	14.6				
C10	20	1	0	18.79	20	6.0		18.74	20	6.3		20.47	20	2.3		17.41	20	13.0				
C12	20	1	0	19.89	20	0.6		19.37	20	3.1		19.51	20	2.4		15.99	20	20.1				
C14	20	1	0	21.19	20	6.0		20.38	20	1.9		22.69	20	13.5		19.48	20	2.6				
C16	20	1	0	21.11	20	5.6		20.54	20	2.7		23.3	20	16.5		19.94	20	0.3				
C17	20	1	0	17.32	20	13.4		17.84	20	10.8		20.37	20	1.9		15.84	20	20.8*				
Pristane	20	1	0	27.64	20	38.2*		25.08	20	25.4*		27.87	20	39.4*		26.03	20	30.2*				
C18	20	1	0	22.63	20	13.2		21.85	20	9.3		23.42	20	17.1		20.41	20	2.0				
Phytane	20	1	0	23.33	20	16.7		21.82	20	9.1		22.78	20	13.9		20.18	20	0.9				
C20	20	1	0	21.8	20	9.0		20.85	20	4.3		24.95	20	24.8*		21.92	20	9.6				
C22	20	1	0	22.17	20	10.9		21.32	20	6.6		24.71	20	23.6*		21.76	20	8.8				
C24	20	1	0	22.27	20	11.4		21.38	20	6.9		24.9	20	24.5*		21.66	20	8.3				
C26	20	1	0	22.22	20	11.1		21.52	20	7.6		24.96	20	24.8*		21.93	20	9.7				
C28	20	1	0	22.51	20	12.6		21.9	20	9.5		25.14	20	25.7*		22.39	20	12.0				
C30	20	1	0	22.51	20	12.6		21.72	20	8.6		25.17	20	25.9*		22.81	20	14.1				
C32	20	1	0	22.15	20	10.8		20.94	20	4.7		25.19	20	26.0*		23.13	20	15.6				
C34	20	1	0	20.58	20	2.9		18.45	20	7.7		23.51	20	17.6		22.28	20	11.4				
C36	20	1	0	19.03	20	4.8		15.79	20	21.1*		20.82	20	4.1		20.73	20	3.6				
C40	20	1	0	16.08	20	19.6		11.86	20	40.7*		16.08	20	19.6		17.15	20	14.3				
Chlorobenzene	20	1	0	19.25	20	3.8		18.88	20	5.6		20.75	20	3.8		18.19	20	9.0				
O-Terphenyl	20	1	0	22.45	20	12.3		21.59	20	8.0		25.54	20	27.7*		22.38	20	11.9				
Average Difference	20	1	0			11.0				10.2				17.9				12.9				

Flags/Notes: ** - Values outside of limits for this column/run*

Form7
R(Window Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD27810-001
Client Id: SB-012SS
Data File: 13M23301.D
Analysis Date: 12/16/21 17:13
Date Rec/Extracted: 12/09/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.64g:10ml
Final Vol: NA
Dilution: 88.7
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	26	U				

Worksheet #: 622539

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23301.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 17:13
Operator : JM
Sample : AD27810-001
Misc : M,MEXT!2
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 21 14:22:49 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

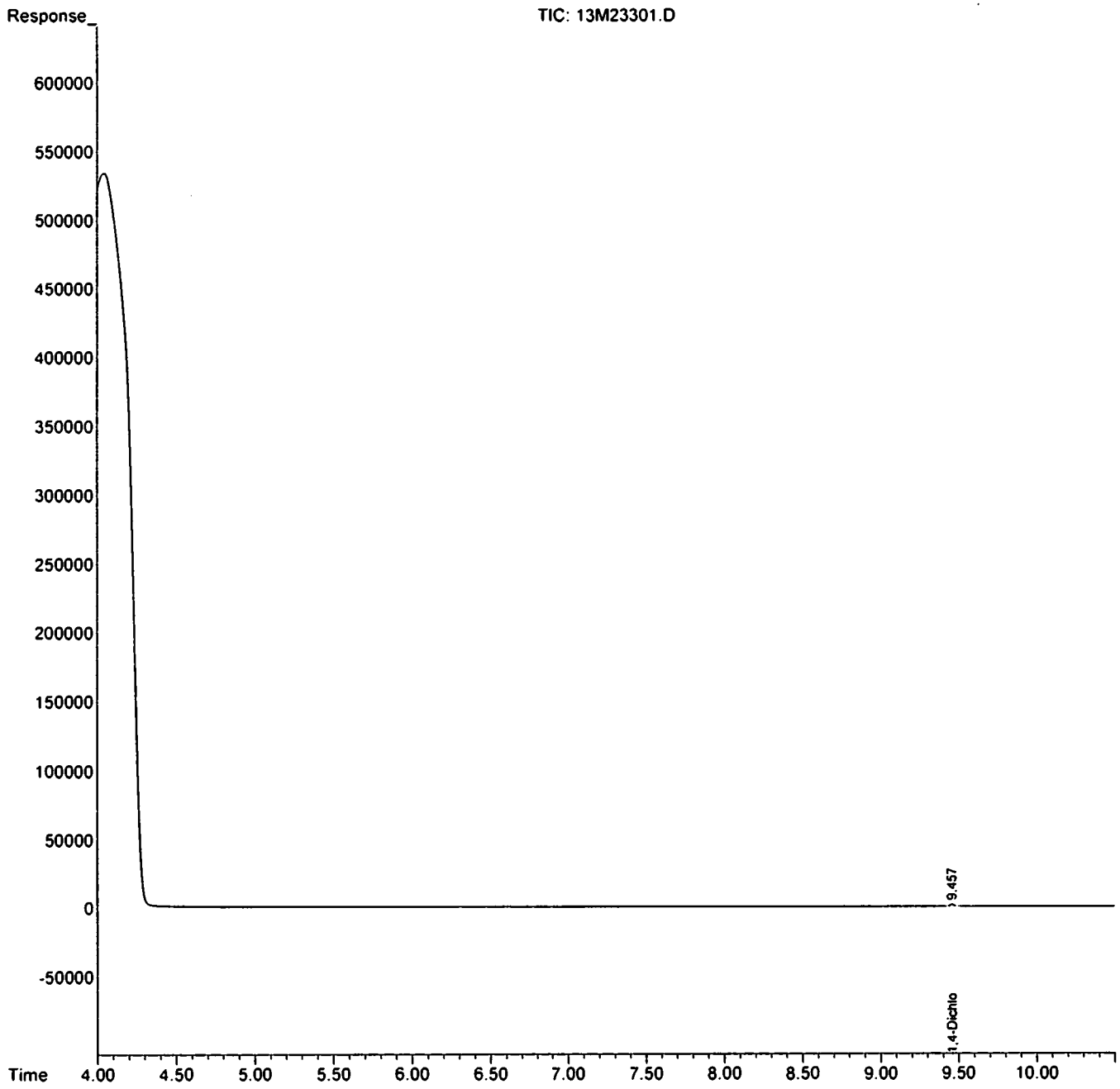
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.458	24901	30.250	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23301.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 17:13
Operator : JM
Sample : AD27810-001
Misc : M,MEXT!2
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 21 14:22:49 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD27810-002
Client Id: SB-013SS
Data File: 13M23305.D
Analysis Date: 12/16/21 18:19
Date Rec/Extracted: 12/09/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.26g:10ml
Final Vol: NA
Dilution: 95.1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	29	U				

Worksheet #: 622539 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23305.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 18:19
Operator : JM
Sample : AD27810-002
Misc : M,MEXT!3
ALS Vial : 29 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 21 14:22:59 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

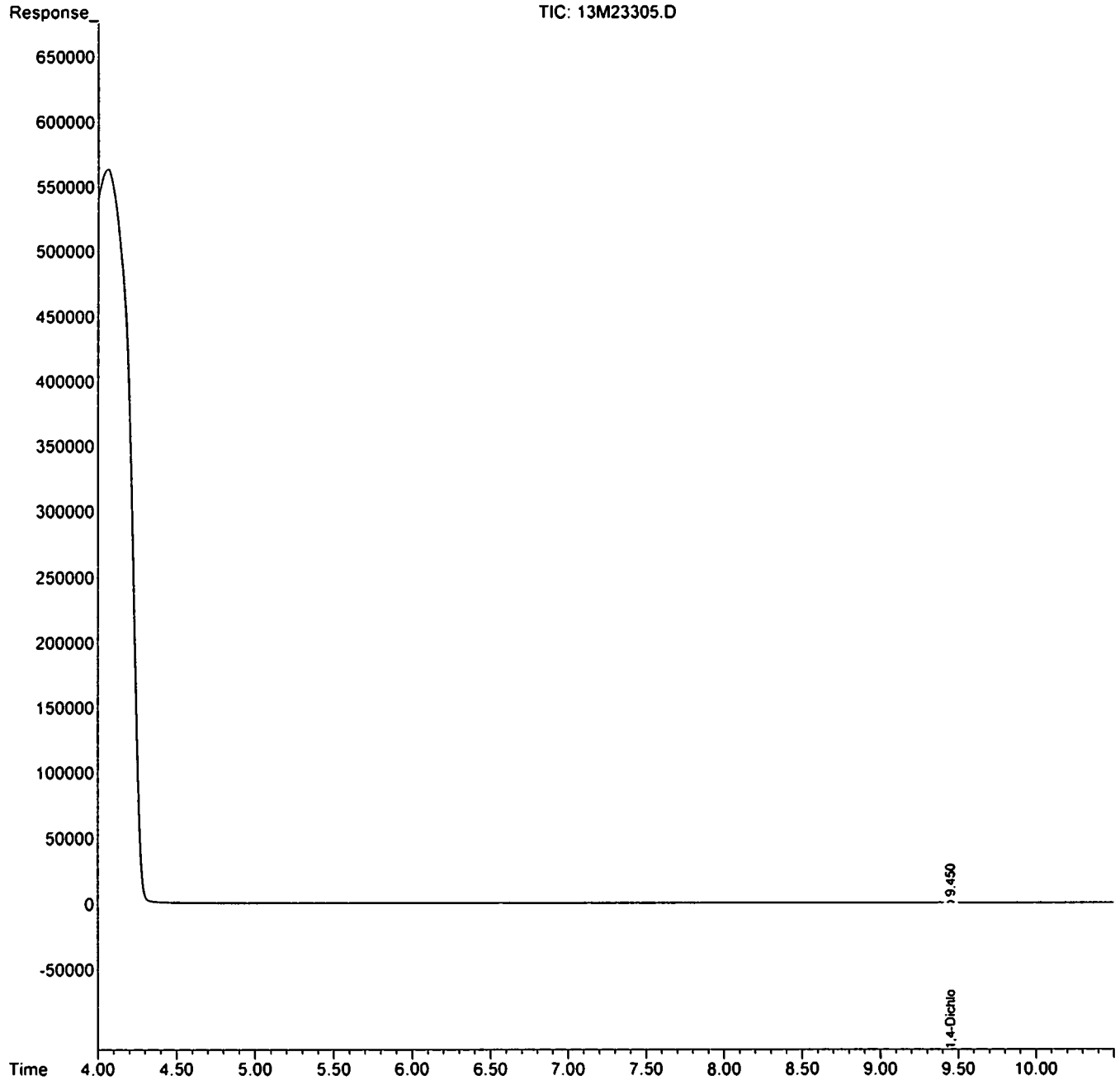
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.451	24989	30.357	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23305.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 18:19
Operator : JM
Sample : AD27810-002
Misc : M,MEXT!3
ALS Vial : 29 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 21 14:22:59 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23283.D
Analysis Date: 12/16/21 12:11
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 622539 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23283.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:11
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 16 12:31:02 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

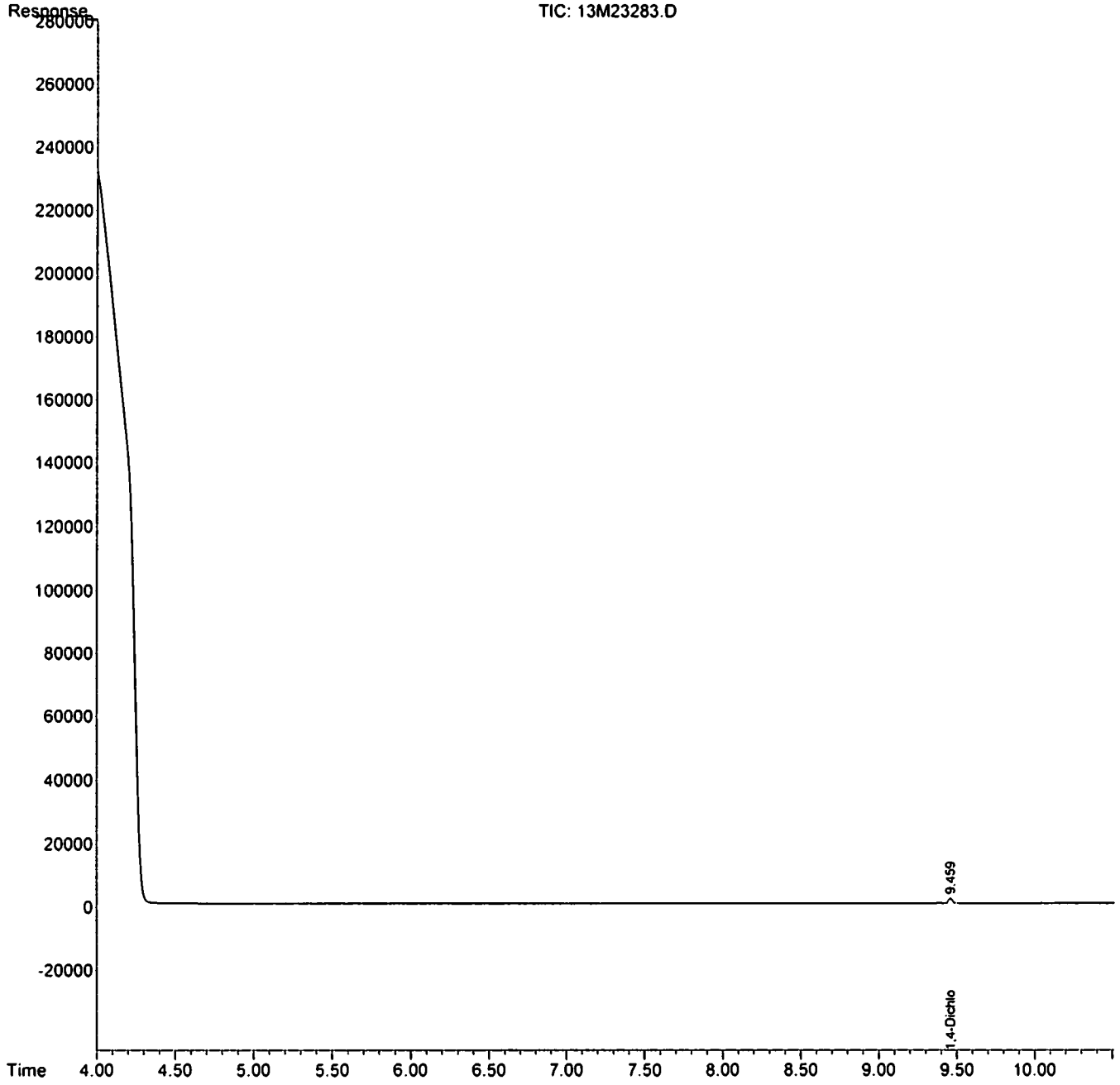
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.460	27431	33.323	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23283.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:11
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 16 12:31:02 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M23283.D	DAILY BLANK	M	12/16/21 12:11	1		111					
13M23301.D	AD27810-001	M	12/16/21 17:13	1		101					
13M23305.D	AD27810-002	M	12/16/21 18:19	1		101					
13M23286.D	AD27810-002(MS)	M	12/16/21 13:01	1		126					
13M23287.D	AD27810-002(MSD)	M	12/16/21 13:18	1		128					
13M23288.D	MBS98248	M	12/16/21 13:34	1		142					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23288.D	MBS98248	12/16/2021 1:34:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2314.2	0	2000	116	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23286.D	AD27810-002(MS)	12/16/2021 1:01:00 PM
Non Spike(If applicable):	13M23235.D	AD27810-002	12/10/2021 6:37:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2831.44	0	2000	142	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23287.D	AD27810-002(MSD)	12/16/2021 1:18:00 PM
Non Spike(If applicable):	13M23235.D	AD27810-002	12/10/2021 6:37:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2600.32	0	2000	130	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23287.D	AD27810-002(MSD)	12/16/2021 1:18:00 PM
Duplicate(If applicable):	13M23286.D	AD27810-002(MS)	12/16/2021 1:01:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2600.32	2831.44	8.5	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23283.D
Matrix: Methanol

Blank Analysis Date: 12/16/21 12:11
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27810-001	13M23301.D	12/16/21 17:13
AD27810-002	13M23305.D	12/16/21 18:19
MBS98248	13M23288.D	12/16/21 13:34
AD27810-002(MSD	13M23287.D	12/16/21 13:18
AD27810-002(MS)	13M23286.D	12/16/21 13:01

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23111.D	BLK	11/24/21 07:34	Aqueous	13M2315	9.4811	0.3667		
13M23114.D	CAL @ 250 PPB	11/24/21 08:24	Aqueous	13M2312	9.4798	0.2313		
13M23116.D	CAL @ 500 PPB	11/24/21 08:57	Aqueous	13M2312	9.4683	0.1099		
13M23118.D	CAL @ 750 PPB	11/24/21 09:30	Aqueous	13M2312	9.4693	0.1205		
13M23120.D	CAL @ 1000 PPB	11/24/21 10:04	Aqueous	13M2312	9.4613	0.0359		
13M23124.D	CAL @ 1500 PPB	11/24/21 11:35	Aqueous	13M2312	9.4803	0.2366		
13M23126.D	CAL @ 2000 PPB	11/24/21 12:08	Aqueous	13M2312	9.4597	0.019		
13M23128.D	CAL @ 4000 PPB	11/24/21 12:41	Aqueous	13M2312	9.4579	0		
13M23131.D	ICV	11/24/21 13:31	Aqueous	13M2312	9.4569	0.0106		
13M23134.D	DAILY BLANK	11/24/21 14:21	Methanol	13M2312	9.4528	0.0539		
13M23135.D	DAILY BLANK	11/24/21 14:37	Aqueous	13M2312	9.4491	0.0931		
13M23136.D	STD	11/24/21 14:58	Aqueous	13M2312	9.4595	0.0169		
13M23137.D	BLK	11/24/21 15:14	Aqueous	13M2312	9.4511	0.0719		
13M23138.D	BLK	11/24/21 15:30	Methanol	13M2312	9.4466	0.1195		
13M23139.D	BLK	11/24/21 15:47	Methanol	13M2312	9.4414	0.1746		
13M23140.D	AD27002-003(80uL)	11/24/21 16:03	Methanol	13M2312	9.4461	0.1248		
13M23141.D	BLK	11/24/21 16:20	Methanol	13M2312	9.4476	0.109		
13M23142.D	BLK	11/24/21 16:36	Methanol	13M2312	9.4552	0.0286		
13M23143.D	AD27002-003(400uL)	11/24/21 16:53	Methanol	13M2312	9.4609	0.0317		
13M23144.D	BLK	11/24/21 17:09	Methanol	13M2312	9.4552	0.0286		
13M23145.D	MBS97290	11/24/21 17:26	Methanol	13M2312	9.4541	0.0402		
13M23146.D	MBS97291	11/24/21 17:42	Aqueous	13M2312	9.4548	0.0328		
13M23147.D	AD27503-008(MS)	11/24/21 17:59	Methanol	13M2312	9.4481	0.1037		
13M23148.D	AD27503-008(MSD)	11/24/21 18:15	Methanol	13M2312	9.4456	0.1301		
13M23149.D	BLK	11/24/21 18:32	Aqueous	13M2312	9.4479	0.1058		
13M23150.D	AD27564-001	11/24/21 18:48	Methanol	13M2312	9.4461	0.1248		
13M23151.D	BLK	11/24/21 19:05	Aqueous	13M2312	9.4491	0.0931		
13M23152.D	MBS97292	11/24/21 19:21	Methanol	13M2312	9.4473	0.1121		
13M23153.D	CAL @ 2000 PPB	11/24/21 19:37	Aqueous	13M2312	9.4464	0.1217		
13M23154.D	2000 PPB	11/24/21 19:54	Aqueous	13M2315	9.4500	0.0381		
13M23155.D	BLK	11/24/21 20:11	Aqueous	13M2315	9.4477	0.0138		
13M23156.D	BLK	11/24/21 20:28	Aqueous	13M2315	9.4474	0.0106		
13M23157.D	BLK	11/24/21 20:45	Aqueous	13M2315	9.4486	0.0233		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23278.D	BLK	12/16/21 10:47	Aqueous	13M2330	9.4914	0.4149		
13M23279.D	2000PPB	12/16/21 11:03	Aqueous	13M2330	9.4746	0.2378		
13M23280.D	CAL @ 2000PPB	12/16/21 11:20	Aqueous	13M2328	9.4626	0		
13M23281.D	BLK	12/16/21 11:37	Aqueous	13M2328	9.4632	0.0063		
13M23282.D	BLK	12/16/21 11:54	Aqueous	13M2328	9.4626	0		
13M23283.D	DAILY BLANK	12/16/21 12:11	Methanol	13M2328	9.4597	0.0307		
13M23284.D	AD27870-001	12/16/21 12:28	Methanol	13M2328	9.4592	0.0359		
13M23285.D	AD27774-003(40UL)	12/16/21 12:45	Methanol	13M2328	9.4526	0.1057		
13M23286.D	AD27810-002(MS)	12/16/21 13:01	Methanol	13M2328	9.4615	0.0116		
13M23287.D	AD27810-002(MSD)	12/16/21 13:18	Methanol	13M2328	9.4605	0.0222		
13M23288.D	MBS98248	12/16/21 13:34	Methanol	13M2328	9.4653	0.0285		
13M23289.D	BLK	12/16/21 13:51	Aqueous	13M2328	9.4623	0.0032		
13M23290.D	BLK	12/16/21 14:08	Aqueous	13M2328	9.4593	0.0349		
13M23291.D	AD27850-008	12/16/21 14:25	Methanol	13M2328	9.4631	0.0053		
13M23292.D	AD27850-010	12/16/21 14:41	Methanol	13M2328	9.4610	0.0169		
13M23293.D	AD27850-011	12/16/21 14:58	Methanol	13M2328	9.4628	0.0021		
13M23294.D	AD27850-012	12/16/21 15:15	Methanol	13M2328	9.4574	0.055		
13M23295.D	AD27850-013	12/16/21 15:31	Methanol	13M2328	9.4551	0.0793		
13M23296.D	AD27850-014	12/16/21 15:49	Methanol	13M2328	9.4541	0.0899		
13M23297.D	AD27822-001	12/16/21 16:05	Methanol	13M2328	9.4536	0.0952		
13M23298.D	AD27893-009	12/16/21 16:22	Methanol	13M2328	9.4607	0.0201		
13M23299.D	AD27893-010	12/16/21 16:40	Methanol	13M2328	9.4621	0.0053		
13M23300.D	AD27893-011	12/16/21 16:57	Methanol	13M2328	9.4623	0.0032		
13M23301.D	AD27810-001	12/16/21 17:13	Methanol	13M2328	9.4575	0.0539		
13M23302.D	2000PPB	12/16/21 17:30	Aqueous	13M2328	9.4587	0.0412		
13M23305.D	AD27810-002	12/16/21 18:19	Methanol	13M2328	9.4508	0.1248		
13M23306.D	CAL @ 2000 PPB	12/16/21 18:36	Aqueous	13M2328	9.4521	0.111		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1120911 0168

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M23128.	CAL @ 4000 PPB	11/24/21 12:41	2	13M23126.	CAL @ 2000 PPB	11/24/21 12:08
3	13M23124.	CAL @ 1500 PPB	11/24/21 11:35	4	13M23120.	CAL @ 1000 PPB	11/24/21 10:04
5	13M23118.	CAL @ 750 PPB	11/24/21 09:30	6	13M23116.	CAL @ 500 PPB	11/24/21 08:57
7	13M23114.	CAL @ 250 PPB	11/24/21 08:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1152	0.0918	0.0778	0.0779	0.0742	0.0704	0.0686	----	0.0823	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0009	0.0008	0.0008	0.0010	0.0009	0.0009	0.0008	----	0.000910	5.44	0.992	0.996	8.8	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0015	0.0013	0.0014	0.0014	0.0014	0.0016	----	0.00150	9.27	0.997	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0784	0.0756	0.0792	0.0709	0.0701	0.0597	0.0754	----	0.0728	8.51	0.999	0.999	9.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.5 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 · Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				13M23280.D				13M23306.D											
Method:				8015				8015											
Calibration Name:				CAL @ 2000PPB				CAL @ 2000 PPB											
Calibration Date/Time				12/16/21 11:20				12/16/21 18:36											
				Conc				Conc				Conc			Conc			Conc	
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp %Diff
Gasoline Range Orga	20	1	0	1973	2000	1.4		1970	2000	1.5									

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27810-001	% Solid:	86	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-012SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/9/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.8	11	1	0.5	50	12/17/21	96697	S28009D3	41	P	PEICP3A
7439-92-1	Lead	5.8	26	1	0.5	50	12/17/21	96697	S28009D3	41	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27810-001	% Solid:	86	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-012SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/9/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.23	7.7	1	0.5	100	12/16/21	966981621	CNEW	49	MSMS3_7700SWA	
7440-43-9	Cadmium	0.47	ND	1	0.5	100	12/16/21	966981621	CNEW	49	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27810-002	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-013SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/9/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	6.0	12	1	0.5	50	12/17/21	96697	S28009D3	42	P	PEICP3A
7439-92-1	Lead	6.0	28	1	0.5	50	12/17/21	96697	S28009D3	42	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27810-002	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-013SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/9/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.24	4.3	1	0.5	100	12/16/21	966981621	CNEW	50		MSMS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	12/16/21	966981621	CNEW	50		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96697 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96697 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-36-0	Antimony	2.0	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-38-2	Arsenic	2.0	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-41-7	Beryllium	0.60	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-42-8	Boron	10	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-43-9	Cadmium	0.60	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7782-49-2	Selenium	2.5	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-21-3	Silicon	10	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-22-4	Silver	0.75	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-28-0	Thallium	2.5	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-31-5	Tin	10	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-32-6	Titanium	5.0	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-62-2	Vanadium	5.0	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	12/17/21	96697	S28009D3	14	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96698 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96698 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	12/16/21	96698	1621CNEW	20	MS	S3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/17/21
Data File: S28009D3
Prep Batch: 96697
Analytical Method:6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-12	Rec	CCV V-360409-23	Rec	CCV V-360409-34	Rec	CCV V-360409-45	Rec	CCV V-360409-56	Rec	CCV V-360409-67	Rec	CCV V-360409-73	Rec
Aluminum	5/5	4.89902	98	4.88903	98	4.88428	98	4.82973	97	4.74063	95	4.71282	94	4.66167	93	4.55893	91
Barium	.5/.5	0.50096	100	0.50022	100	0.50638	101	0.50550	101	0.50152	100	0.50787	102	0.49607	99	0.49296	99
Calcium	50/50	50.51910	101	49.99300	100	50.15870	100	49.69200	99	49.29130	99	49.48160	99	49.21910	98	48.32270	97
Chromium	.5/.5	0.48564	97	0.50366	101	0.50858	102	0.47611	95	0.47216	94	0.50342	101	0.46821	94	0.46243	92
Cobalt	.5/.5	0.48620	97	0.47707	95	0.48218	96	0.48240	96	0.46779	94	0.46889	94	0.45300	91	0.44591	89c
Copper	.5/.5	0.49051	98	0.49775	100	0.49857	100	0.49231	98	0.49176	98	0.49176	98	0.49333	99	0.48693	97
Iron	5/5	5.00972	100	4.94241	99	4.96320	99	4.90947	98	4.85001	97	4.84912	97	4.80367	96	4.70845	94
Lead	.5/.5	0.49914	100	0.48332	97	0.49700	99	0.48744	97	0.48382	97	0.48871	98	0.47130	94	0.47086	94
Magnesium	50/50	51.05470	102	49.59900	99	50.03120	100	49.58280	99	49.32230	99	49.89250	100	49.55900	99	48.54300	97
Manganese	.5/.5	0.49597	99	0.49343	99	0.49568	99	0.49116	98	0.48860	98	0.49010	98	0.48790	98	0.47930	96
Nickel	.5/.5	0.49196	98	0.48257	97	0.48710	97	0.48661	97	0.48132	96	0.48693	97	0.47448	95	0.47141	94
Zinc	.5/.5	0.51260	103	0.49180	98	0.49882	100	0.49829	100	0.49321	99	0.50185	100	0.48627	97	0.48717	97

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/17/21
Data File: S28009D3
Prep Batch: 96697
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360414	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	5.26699	105	80	120	500	515.531	103	90	110
Aluminum	2.0	2.06185	103	80	120	500	485.425	97	90	110
Arsenic	0.04	0.0487989	122 a	80	120	10	10.6833	107	90	110
Boron	0.2	0.220093	110	80	120	5	5.09746	102	90	110
Barium	0.1	0.0999875	100	80	120	10	10.1568	102	90	110
Beryllium	0.012	0.0139781	116	80	120	5	5.10147	102	90	110
Calcium	10	10.3164	103	80	120	500	478.832	96	90	110
Cadmium	0.012	0.0158123	132 a	80	120	5	5.22558	105	90	110
Cerium	0.2	0.000	0 a	80	120	25	0.000	0 a	90	110
Cobalt	0.025	0.0276658	111	80	120	5	4.86183	97	90	110
Chromium	0.05	0.0475864	95	80	120	10	9.81860	98	90	110
Copper	0.05	0.0513289	103	80	120	10	9.84869	98	90	110
Silver	0.015	0.0135151	90	80	120	1	0.991871	99	90	110
Potassium	NA	44.9341		80	120	200	-2127.80	- a	90	110
Zinc	0.1	0.102570	103	80	120	10	10.1278	101	90	110
Manganese	0.1	0.101290	101	80	120	10	10.1302	101	90	110
Molybdenum	0.025	0.0274139	110	80	120	10	10.0144	100	90	110
Sodium	NA	2.91594		80	120	1000	1048.59	105	90	110
Nickel	0.05	0.0529537	106	80	120	10	9.71679	97	90	110
Lead	0.05	0.0526295	105	80	120	10	10.2349	102	90	110
Antimony	0.04	0.0447763	112	80	120	5	5.42153	108	90	110
Selenium	0.05	0.0641264	128 a	80	120	5	5.42458	108	90	110
Silicon	0.2	0.254114	127 a	80	120	25	25.6914	103	90	110
Tin	0.2	0.207632	104	80	120	10	10.3255	103	90	110
Titanium	0.1	0.101070	101	80	120	10	9.98396	100	90	110
Thallium	0.05	0.0491941	98	80	120	5	4.99515	100	90	110
Vanadium	0.1	0.100899	101	80	120	10	9.83180	98	90	110
Iron	2.0	2.03386	102	80	120	400	402.184	101	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/16/21
Data File: S121621CNEW
Prep Batch: 96698
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-363697-9	Rec	CCV V-363701-18	Rec	CCV V-363701-30	Rec	CCV V-363701-42	Rec	CCV V-363701-54	Rec	CCV V-363701-57	Rec		Rec		Rec
Antimony	50/50	51.64600	103	48.52700	97	49.04100	98	49.21500	98	48.82300	98	48.49800	97				
Arsenic	50/50	53.31700	107	50.81500	102	50.43300	101	50.62700	101	51.00800	102	50.76900	102				
Beryllium	50/50	52.22700	104	49.36400	99	48.95500	98	48.39100	97	50.33100	101	49.18100	98				
Cadmium	50/50	52.57400	105	49.93400	100	50.22000	100	50.82000	102	50.27700	101	50.23900	100				
Chromium	50/50	52.75200	106	50.36000	101	50.30100	101	50.50800	101	50.61100	101	50.76900	102				
Potassium	5000/5000	5312.8760	106	5136.4620	103	5044.9490	101	5072.6340	101	5169.5980	103	5147.9830	103				
Selenium	50/250	53.20400	106	254.68000	102	253.31000	101	249.91300	100	255.62000	102	253.45100	101				
Silver	10/50	10.42100	104	50.64200	101	51.28100	103	51.80700	104	51.07600	102	50.74400	101				
Sodium	5000/5000	5387.7250	108	5049.5350	101	4968.0020	99	4991.0770	100	5062.6820	101	5026.2810	101				
Thallium	50/50	49.96600	100	50.29000	101	51.18400	102	51.45000	103	51.51400	103	51.31100	103				
Vanadium	50/50	51.76800	104	50.40600	101	50.02400	100	50.32900	101	50.26200	101	50.32200	101				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/16/21
Data File: S121621CNEW
Prep Batch: 96698
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-363702	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-363700	Recovery	Low Limit	High Limit
Magnesium	500	499.098	100	80	120	50000	50433.432	101	90	110
Aluminum	500	522.544	105	80	120	15000	15467.196	103	90	110
Arsenic	1	1.050	105	80	120	500	513.663	103	90	110
Barium	5	5.040	101	80	120	500	507.759	102	90	110
Beryllium	1	1.131	113	80	120	500	491.913	98	90	110
Calcium	500	505.510	101	80	120	50000	53365.648	107	90	110
Cadmium	2	2.034	102	80	120	500	508.782	102	90	110
Cobalt	2	1.986	99	80	120	500	489.867	98	90	110
Chromium	2	2.039	102	80	120	500	504.890	101	90	110
Copper	10	9.280	93	80	120	500	491.859	98	90	110
Silver	1	0.926	93	80	120	500	87.165	17a	90	110
Potassium	500	503.944	101	80	120	50000	51824.612	104	90	110
Zinc	20	20.268	101	80	120	500	480.721	96	90	110
Manganese	6	6.031	101	80	120	500	513.101	103	90	110
Molybdenum	1	1.057	106	80	120	500	517.914	104	90	110
Sodium	500	477.060	95	80	120	50000	50613.634	101	90	110
Nickel	3	3.062	102	80	120	500	503.533	101	90	110
Lead	2	1.889	94	80	120	500	469.600	94	90	110
Antimony	4	3.872	97	80	120	500	497.827	100	90	110
Selenium	10	10.052	101	80	120	2500	2513.231	101	90	110
Thallium	2	1.979	99	80	120	500	471.828	94	90	110
Vanadium	1	1.006	101	80	120	500	515.203	103	90	110
Iron	500	510.814	102	80	120	50000	50344.347	101	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/17/21
Data File: S28009D3
Prep Batch: 96697
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-6	CCB V-360404-13	CCB V-360404-24	CCB V-360404-35	CCB V-360404-46	CCB V-360404-57	CCB V-360404-68	CCB V-360404-74
Aluminum	1U	2U	2U	2U	2U	2U	2U	2U
Barium	.05U	.1U	.1U	.1U	.1U	.1U	.1U	.1U
Calcium	5U	10U	10U	10U	10U	10U	10U	10U
Chromium	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Cobalt	.0125U	.025U	.025U	.025U	.025U	.025U	.025U	.025U
Copper	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Iron	1U	2U	2U	2U	2U	2U	2U	2U
Lead	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Magnesium	2.5U	5U	5U	5U	5U	5U	5U	5U
Manganese	.05U	.1U	.1U	.1U	.1U	.1U	.1U	.1U
Nickel	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Zinc	.05U	.1U	.1U	.1U	.1U	.1U	.1U	.1U

Analyte	MB 96697 (100)-14
Aluminum	100U
Barium	5U
Calcium	500U
Chromium	2.5U
Cobalt	1.3U
Copper	2.5U
Iron	100U
Lead	2.5U
Magnesium	250U
Manganese	5U
Nickel	2.5U
Zinc	5U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/16/21
Data File: S121621CNEW
Prep Batch: 96698
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-363698-11	CCB V-363698-19	CCB V-363698-31	CCB V-363698-43	CCB V-363698-55	CCB V-363698-58	MB 96698-20
Antimony	2U	4U	4U	4U	4U	4U	400U
Arsenic	.5U	1U	1U	1U	1U	1U	100U
Beryllium	.5U	1U	1U	1U	1U	1U	100U
Cadmium	1U	2U	2U	2U	2U	2U	200U
Chromium	1U	2U	2U	2U	2U	2U	200U
Potassium	250U	500U	500U	500U	500U	500U	50000U
Selenium	5U	10U	10U	10U	10U	10U	1000U
Silver	.5U	1U	1U	1U	1U	1U	100U
Sodium	250U	500U	500U	500U	500U	500U	50000U
Thallium	1U	2U	2U	2U	2U	2U	200U
Vanadium	.5U	1U	1U	1U	1U	1U	100U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/17/21
Data File: S28009D3
Prep Batch: 96697
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	498.366	100							
Barium	0	U								
Calcium	500	483.243	97							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	197.346	99							
Lead	0	U								
Magnesium	500	514.587	103							
Manganese	0	U								
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/16/21
Data File: S121621CNEW
Prep Batch: 96698
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1120911

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-363699-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	50007.97	100							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	155067.3	103							
Chromium	0	U								
Iron	125000	124080.7	99							
Magnesium	50000	50459.2[illegible]	101							
Potassium	50000	51341.11	103							
Selenium	0	U								
Silver	0	U								
Sodium	125000	124421.[illegible]	100							
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96697

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96697

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96697	1	S28009D3	16	0.6721	.734	92		67	125
Lead	96697	1	S28009D3	16	1.7477	1.86	94		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96697

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96697	1	S28009D3	15	0.6350	.734	87		67	125
Lead	96697	1	S28009D3	15	1.6265	1.86	87		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96697	1	S28009D3	20	S28009D3	17	0.4932	0.05U	0.5	99		75	125
Lead	96697	1	S28009D3	20	S28009D3	17	0.5113	0.05U	0.5	102		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96697	1	S28009D3	19	S28009D3	17	0.5102	0.05U	0.5	102		75	125
Lead	96697	1	S28009D3	19	S28009D3	17	0.4827	0.05U	0.5	97		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96697

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27883-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S28009D3	21	S28009D3	17	0.5452	0.05U	0.50	109		75	125
Lead	1	S28009D3	21	S28009D3	17	0.5433	0.05U	0.50	109		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96698

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96698

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96698	1	S121621C	22	224.7150	225	100		65	121
Cadmium	96698	1	S121621C	22	249.7610	249	100		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96698

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96698	1	S121621C	21	219.5490	225	98		65	121
Cadmium	96698	1	S121621C	21	237.2790	249	95		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96698	1	S121621C	27	S121621C	23	231.4650	2.5820	250	92		75	125
Cadmium	96698	1	S121621C	27	S121621C	23	231.5490	2U	250	93		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96698	1	S121621C	26	S121621C	23	230.5850	2.5820	250	91		75	125
Cadmium	96698	1	S121621C	26	S121621C	23	229.5750	2U	250	92		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96698

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27883-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S121621C	28	S121621C	23	52.4060	2.5820	50	100		75	125
Cadmium	1	S121621C	28	S121621C	23	49.0450	2U	50	98		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96697

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96697

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96697	S28009D3	16	S28009D3	15	0.6721	0.6350	5.7	20
Lead	96697	S28009D3	16	S28009D3	15	1.7477	1.6265	7.2	20

TxtQcType: MR Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96697	S28009D3	18	S28009D3	17	0.05U	0.05U	---	20
Lead	96697	S28009D3	18	S28009D3	17	0.05U	0.05U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	96697	S28009D3	20	S28009D3	19	0.4932	0.5102	3.4	20
Lead	96697	S28009D3	20	S28009D3	19	0.5113	0.4827	5.8	20

TxtQcType: SD Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Chromium	96697	S28009D3	22	S28009D3	17	5	-0.0005	0.0243	---	10
Lead	96697	S28009D3	22	S28009D3	17	5	0.0051	0.0162	---	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96698

Instrument Type: ICPMS

Analytical Method(s): 6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96698

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96698	S121621C	22	S121621C	21	224.7150	219.5490	2.3	20
Cadmium	96698	S121621C	22	S121621C	21	249.7610	237.2790	5.1	20

TxtQcType: MR Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96698	S121621C	24	S121621C	23	2.4440	2.5820	5.5	20
Cadmium	96698	S121621C	24	S121621C	23	2U	2U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96698	S121621C	27	S121621C	26	231.4650	230.5850	.38	20
Cadmium	96698	S121621C	27	S121621C	26	231.5490	229.5750	.86	20

TxtQcType: SD Matrix: SOIL SampleID: AD27883-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Arsenic	96698	S121621C	25	S121621C	23	5	0.4930	2.5820	4.5	20
Cadmium	96698	S121621C	25	S121621C	23	5	0.0260	0.1510	---	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S28009D3.txt

Analysis Date: 12/17/21 **Instrument** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-360404	1	CAL	14:04	1							V-360404(ICB/CCB)
CALST2 V-360414	1	CAL	14:07	2							V-360414(LLICV/LLCCV soil)
CALST3 V-360405	1	CAL	14:11	3							V-360405(ICS3 - Middle Std)
CALST4 V-360406	1	CAL	14:14	4							V-360406(ICS4 High std)
ICV V-360409	1	ICV	14:17	5							V-360409(CCV)
ICB V-360404	1	ICB	14:20	6							V-360404(ICB/CCB)
LRS V-360412	1	LRS	14:24	7		SOIL	SOIL	SW846	96697		V-360412(LRS)
ICS3 V-360405	1	ICS	14:29	8							V-360405(ICS3 - Middle Std)
RINSE	1	SMP	14:32	9		SOIL	SOIL	SW846	96697		0
LLICV V-360414	1	LLICV	14:36	10		SOIL	SOIL	SW846	96697		V-360414(LLICV/LLCCV soil)
ICSA V-360410	1	ICSA	14:39	11							V-360410(ICSA)
CCV V-360409	1	CCV	14:44	12							V-360409(CCV)
CCB V-360404	1	CCB	14:47	13							V-360404(ICB/CCB)
MB 96697 (100)	1	MB	14:50	14		SOIL	SOIL	SW846	96697		0
LCS 96697	1	LCS	14:54	15		SOIL	SOIL	SW846	96697		0
LCS MR 96697	1	LCS	14:58	16		SOIL	SOIL	SW846	96697		0
AD27883-001	1	SMP	15:02	17	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27883-001	1	MR	15:06	18	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27883-001	1	MS	15:10	19	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27883-001	1	MSD	15:13	20	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27883-001	1	PS	15:16	21	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27883-001	5	SD	15:20	22	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
CCV V-360409	1	CCV	15:23	23							V-360409(CCV)
CCB V-360404	1	CCB	15:26	24							V-360404(ICB/CCB)
AD27883-002	1	SMP	15:30	25	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27883-003	1	SMP	15:34	26	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27755-004	1	SMP	15:38	27	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27755-006	1	SMP	15:42	28	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27902-003	1	SMP	15:45	29	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27888-001	1	SMP	15:50	30	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27888-007	1	SMP	15:54	31	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27893-004	1	SMP	15:57	32	MET-PP6010S	SOIL	SOIL	SW846	96697		0
AD27893-006	1	SMP	16:01	33	SRSMETALS-S	SOIL	SOIL	SW846	96697		0
CCV V-360409	1	CCV	16:04	34							V-360409(CCV)
CCB V-360404	1	CCB	16:08	35							V-360404(ICB/CCB)
AD27908-002	1	SMP	16:11	36	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27908-003	1	SMP	16:14	37	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27908-005	1	SMP	16:18	38	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27908-006	1	SMP	16:23	39	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27908-007	1	SMP	16:27	40	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27810-001	1	SMP	16:32	41	MET-RCRA-S	SOIL	SOIL	SW846	96697		0
AD27810-002	1	SMP	16:36	42	MET-RCRA-S	SOIL	SOIL	SW846	96697		0
AD27912-001	1	SMP	16:40	43	MET-TAL6010S	SOIL	SOIL	SW846	96697		0
AD27911-003	1	SMP	16:44	44	MET-TAL6010S	SOIL	SOIL	SW846	96697	Mn,Ni>LRS not reported	0
CCV V-360409	1	CCV	16:48	45							V-360409(CCV)
CCB V-360404	1	CCB	16:51	46							V-360404(ICB/CCB)
MB 96714 (100)	1	MB	16:55	47		SOIL	SOIL	SW846	96714		0
LCS 96714	1	LCS	16:59	48		SOIL	SOIL	SW846	96714		0
LCS MR 96714	1	LCS	17:03	49		SOIL	SOIL	SW846	96714		0
AD27934-001	1	SMP	17:07	50	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27934-001	1	MR	17:11	51	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27934-001	1	MS	17:14	52	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27934-001	1	MSD	17:18	53	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27934-001	1	PS	17:22	54	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27934-001	5	SD	17:26	55	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
CCV V-360409	1	CCV	17:30	56							V-360409(CCV)
CCB V-360404	1	CCB	17:33	57							V-360404(ICB/CCB)
AD27946-001	1	SMP	17:37	58	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27946-004	1	SMP	17:40	59	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27946-007	1	SMP	17:44	60	MET-TAL6010S	SOIL	SOIL	SW846	96714		0

Comments/Reviewedby:

dlucca
192.168.1.105 12/20/2021 8:00:50 AM

Run is OK all elements reported

12/22/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S28009D3.txt

Analysis Date: 12/17/21

Instrument PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
AD27946-010	1	SMP	17:48	61	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27946-013	1	SMP	17:52	62	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27918-001	1	SMP	17:56	63	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27947-001	1	SMP	18:00	64	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27953-001	1	SMP	18:04	65	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
AD27953-002	1	SMP	18:07	66	MET-TAL6010S	SOIL	SOIL	SW846	96714		0
CCV V-360409	1	CCV	18:11	67							V-360409(CCV)
CCB V-360404	1	CCB	18:14	68							V-360404(ICB/CCB)
AD27871-001	1	SMP	18:18	69	MET-8-SOIL	SOIL	SOIL	SW846	96714	Co not reported	0
AD27872-001	1	SMP	18:21	70	MET-8-SOIL	SOIL	SOIL	SW846	96714	Co not reported	0
AD27954-001	1	SMP	18:25	71	MET-2-SOIL	SOIL	SOIL	SW846	96714	Co not reported	0
AD27935-001	1	SMP	18:29	72	PB-SOIL	SOIL	SOIL	SW846	96714	Co not reported	0
CCV V-360409	1	CCV	18:33	73						Co failed	V-360409(CCV)
CCB V-360404	1	CCB	18:36	74							V-360404(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 12/20/2021 8:00:50 AM

Run is OK all elements reported

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S121621CNEW.txt

Analysis Date: 12/16/21 **Instrument** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	18:41	1		SOIL	SOIL	SW846	96698		0
RINSE	1	NA	18:46	2		SOIL	SOIL	SW846	96698		0
CalBlk V-363691	1	ISBLK	18:50	3		SOIL	SOIL				V-363691(Cal Blk WARNING)
CalStd1 V-363692	1	CAL	18:55	4							V-363692(Cal Std-1 WARNING)
CalStd2 V-363693	1	CAL	18:59	5							V-363693(Cal Std-2 WARNING)
CalStd3 V-363694	1	CAL	19:04	6							V-363694(Cal Std-3 WARNING)
CalStd4 V-363695	1	CAL	19:08	7							V-363695(Cal Std-4 WARNING)
CalStd5 V-363696	1	CAL	19:12	8							V-363696(Cal Std-5 WARNING)
ICV V-363697	1	ICV	19:17	9							V-363697(ICV WARNING)
LLICV V-363702	1	LLICV	19:21	10		SOIL	SOIL	SW846	96698		V-363702(LL-ICV/CCV SOIL WARNING)
ICB V-363698	1	ICB	19:26	11							V-363698(ICB/CCB WARNING)
ICSA V-363699	1	ICSA	19:30	12							V-363699(ICSA WARNING)
RINSE	1	NA	19:34	13		SOIL	SOIL	SW846	96698		0
LRS V-363700	1	LRS	19:39	14		SOIL	SOIL	SW846	96698		V-363700(LRS WARNING)
RINSE	1	NA	19:43	15		SOIL	SOIL	SW846	96698		0
RINSE	1	NA	19:48	16		SOIL	SOIL	SW846	96698		0
RINSE	1	NA	19:52	17		SOIL	SOIL	SW846	96698		0
CCV V-363701	1	CCV	19:56	18							V-363701(CCV WARNING)
CCB V-363698	1	CCB	20:01	19							V-363698(ICB/CCB WARNING)
MB 96698	1	MB	20:05	20		SOIL	SOIL	SW846	96698		0
LCS 96698	1	LCS	20:10	21		SOIL	SOIL	SW846	96698		0
LCS MR 96698	1	LCS	20:14	22		SOIL	SOIL	SW846	96698		0
AD27883-001	1	SMP	20:18	23	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27883-001	1	MR	20:23	24	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27883-001	5	SD	20:27	25	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27883-001	1	MS	20:32	26	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27883-001	1	MSD	20:36	27	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27883-001	1	PS	20:40	28	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
RINSE	1	NA	20:44	29		SOIL	SOIL	SW846	96698		0
CCV V-363701	1	CCV	20:49	30							V-363701(CCV WARNING)
CCB V-363698	1	CCB	20:53	31							V-363698(ICB/CCB WARNING)
AD27883-002	1	SMP	20:58	32	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27883-003	1	SMP	21:02	33	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27755-004	1	SMP	21:07	34	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27755-006	1	SMP	21:11	35	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27902-003	1	SMP	21:15	36	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27888-001	1	SMP	21:20	37	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27888-007	1	SMP	21:24	38	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27893-004	1	SMP	21:28	39	MET-PP6020S	SOIL	SOIL	SW846	96698		0
AD27893-006	1	SMP	21:33	40	MET-5-6020	SOIL	SOIL	SW846	96698		0
RINSE	1	NA	21:37	41		SOIL	SOIL	SW846	96698		0
CCV V-363701	1	CCV	21:42	42							V-363701(CCV WARNING)
CCB V-363698	1	CCB	21:46	43							V-363698(ICB/CCB WARNING)
AD27908-002	1	SMP	21:51	44	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27908-003	1	SMP	21:55	45	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27908-005	1	SMP	21:59	46	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27908-006	1	SMP	22:04	47	MET-TAL6020S	SOIL	SOIL	SW846	96698	Rerun V (LR).	0
AD27908-007	1	SMP	22:08	48	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27810-001	1	SMP	22:12	49	MET-RCRA-MS	SOIL	SOIL	SW846	96698		0
AD27810-002	1	SMP	22:17	50	MET-RCRA-MS	SOIL	SOIL	SW846	96698		0
AD27912-001	1	SMP	22:21	51	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
AD27911-003	1	SMP	22:25	52	MET-TAL6020S	SOIL	SOIL	SW846	96698		0
RINSE	1	NA	22:30	53		SOIL	SOIL	SW846	96698		0
CCV V-363701	1	CCV	22:34	54							V-363701(CCV WARNING)
CCB V-363698	1	CCB	22:39	55							V-363698(ICB/CCB WARNING)
RINSE	1	NA	22:43	56		SOIL	SOIL	SW846	96698		0

Comments/Reviewedby:

pcousineau
192.168.1.87 12/17/2021 11:41:00 AM

Run ok. Report Ag, As, Be, Cd, K, Na, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb.
Rerun V for 27908-006 (over LR). PC.

PC 12/22/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: ISE 12/14/21

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S121621CNEW.txt

Analysis Date: 12/16/21 **Instrument** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit	Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CCV V-363701	1	CCV	22:48	57								V-363701(CCV WARNING)
CCB V-363698	1	CCB	22:52	58								V-363698(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 12/17/2021 11:41:00 AM

Run ok. Report Ag, As, Be, Cd, K, Na, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb. Rerun V for 27908-006 (over LR). PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 1x 12/16/21

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S121621CN Sample ID: CalBlk V-363691 Sample Date 12/16/21 Sample Time: 18:50

IS ID:	Area	Area Limit		
Ho-1	3018441.42	2112908.994	-	3923973.846
In-1	2597707.13	1818394.991	-	3377019.269
Sc-1	1678574.35	1175002.045	-	2182146.655
Tb-1	3175030.19	2222521.133	-	4127539.247

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	3018441.	2597707.	1678574.	3175030.				
SMP	RINSE	1	2916649.	2488090.	1611565.	3043496.				
SMP	RINSE	2	2912991.	2541506.	1634222.	3093532.				
CAL	CalStd1 V-36369	4	3007419.	2576755.	1673130.	3171782.				
CAL	CalStd2 V-36369	5	3002060.	2572665.	1665661.	3189540.				
CAL	CalStd3 V-36369	6	3000322.	2557050.	1653908.	3150787.				
CAL	CalStd4 V-36369	7	2954085.	2508782.	1636554.	3104888.				
CAL	CalStd5 V-36369	8	2964336.	2483150.	1616783.	3113122.				
ICV	ICV V-363697	9	3019234.	2511236.	1641088.	3145189.				
LLICV	LLICV V-363702	10	3002724.	2546590.	1652478.	3128855.				
ICB	ICB V-363698	11	2987689.	2528269.	1651666.	3132441.				
ICSA	ICSA V-363699	12	2962635.	2382787.	1611595.	3101666.				
SMP	RINSE	13	3072546.	2651223.	1718199.	3231014.				
LRS	LRS V-363700	14	3035103.	2532627.	1720978.	3197171.				
SMP	RINSE	15	3051092.	2634782.	1714211.	3212017.				
SMP	RINSE	16	3055258.	2643805.	1716538.	3208322.				
SMP	RINSE	17	3040998.	2644850.	1696531.	3171180.				
CCV	CCV V-363701	18	3131562.	2658614.	1751721.	3294568.				
CCB	CCB V-363698	19	3089162.	2643369.	1707932.	3240737.				
MB	MB 96698	20	3087552.	2646222.	1724781.	3251035.				
LCS	LCS 96698	21	3162967.	2666687.	1810539.	3329451.				
MR	LCS MR 96698	22	3161877.	2660311.	1840856.	3347651.				
SMP	AD27883-001	23	3205394.	2601829.	1819346.	3356303.				
MR	AD27883-001	24	3170182.	2593356.	1812601.	3319746.				
SD	AD27883-001	25	3039717.	2578934.	1671426.	3200547.				
MS	AD27883-001	26	3179721.	2598521.	1842529.	3329772.				
MSD	AD27883-001	27	3167974.	2570585.	1806524.	3307007.				
PS	AD27883-001	28	3149770.	2544580.	1801284.	3337183.				
SMP	RINSE	29	2986090.	2554497.	1655217.	3126997.				
CCV	CCV V-363701	30	3056971.	2577945.	1678060.	3203984.				
CCB	CCB V-363698	31	3005983.	2597074.	1653446.	3176210.				
SMP	AD27883-002	32	3152603.	2554382.	1812265.	3281068.				
SMP	AD27883-003	33	3159903.	2559821.	1898190.	3291444.				
SMP	AD27755-004	34	3248239.	2578630.	2486596. *	3422633.				
SMP	AD27755-006	35	3146072.	2545479.	2054046.	3293527.				
SMP	AD27902-003	36	3170854.	2574788.	2146660.	3324361.				
SMP	AD27888-001	37	3157061.	2603338.	2061281.	3300345.				
SMP	AD27888-007	38	3153721.	2590936.	2048474.	3314860.				
SMP	AD27893-004	39	3125723.	2548079.	2478471. *	3303257.				
SMP	AD27893-006	40	3015710.	2485729.	1837588.	3191143.				
SMP	RINSE	41	2926506.	2530005.	1630301.	3092487.				
CCV	CCV V-363701	42	3054809.	2560777.	1652209.	3186929.				
CCB	CCB V-363698	43	3002496.	2564547.	1645313.	3158258.				
SMP	AD27908-002	44	3068659.	2465642.	2023105.	3200066.				
SMP	AD27908-003	45	3060808.	2420103.	2050471.	3199353.				
SMP	AD27908-005	46	3260960.	2458398.	2631722. *	3418579.				
SMP	AD27908-006	47	3014621.	2418911.	2083007.	3161402.				
SMP	AD27908-007	48	3096461.	2449788.	2322351. *	3246984.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AD27810-001	49	3052366.	2474084.	2320449.	*	3225640.
SMP	AD27810-002	50	3190750.	2461962.	2250813.	*	3347847.
SMP	AD27912-001	51	3075041.	2495807.	1874185.		3204429.
SMP	AD27911-003	52	3049600.	2493024.	2137410.		3180873.
SMP	RINSE	53	2866697.	2459265.	1574479.		3006803.
CCV	CCV V-363701	54	2941859.	2517133.	1651303.		3105239.
CCB	CCB V-363698	55	2892969.	2477531.	1579939.		3021313.
SMP	RINSE	56	2836012.	2403346.	1551628.		2989156.
CCV	CCV V-363701	57	2981475.	2513296.	1635637.		3127024.
CCB	CCB V-363698	58	2904885.	2510152.	1607861.		3079710.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S121621CN Sample ID: CalBlk V-363691 Sample Date 12/16/21 Sample Time: 18:50

IS ID:	Area	Area Limit		
Ho-2	1960908.01	1372635.607	-	2549180.413
In-2	651777.90	456244.53	-	847311.27
Sc-2	77404.95	54183.465	-	100626.435
Tb-2	1993957.73	1395770.411	-	2592145.049

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area		Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	1960908.	651777.9	77404.95	1993957.					
SMP	RINSE	1	1931670.	659115.5	76911.84	1975349.					
SMP	RINSE	2	1942234.	669925.1	77581.30	1990584.					
CAL	CalStd1 V-36369	4	1979580.	656130.0	76816.43	2001587.					
CAL	CalStd2 V-36369	5	1949472.	650022.3	76586.12	1973443.					
CAL	CalStd3 V-36369	6	1928232.	648380.1	75856.82	1976169.					
CAL	CalStd4 V-36369	7	1904197.	631682.5	74288.41	1938343.					
CAL	CalStd5 V-36369	8	1901703.	625842.2	74479.11	1941260.					
ICV	ICV V-363697	9	1929628.	636574.1	76220.40	1957560.					
LLICV	LLICV V-363702	10	1947886.	645055.8	76901.85	1984248.					
ICB	ICB V-363698	11	1955715.	651523.5	76468.99	1976048.					
ICSA	ICSA V-363699	12	1909921.	603577.0	75325.76	1941529.					
SMP	RINSE	13	2032841.	689760.7	81536.74	2067098.					
LRS	LRS V-363700	14	1974682.	638607.2	79549.43	2014147.					
SMP	RINSE	15	2009482.	698289.0	82296.76	2055136.					
SMP	RINSE	16	2017313.	697894.8	82717.34	2043989.					
SMP	RINSE	17	2018381.	699964.4	82842.32	2062508.					
CCV	CCV V-363701	18	1996366.	676600.8	80470.15	2033168.					
CCB	CCB V-363698	19	2006097.	675883.9	79747.16	2033775.					
MB	MB 96698	20	2005757.	671532.8	79356.29	2036308.					
LCS	LCS 96698	21	2034994.	687628.8	85091.12	2068389.					
MR	LCS MR 96698	22	2022814.	684090.4	85358.82	2083995.					
SMP	AD27883-001	23	2077479.	657528.6	84322.05	2097348.					
MR	AD27883-001	24	2076891.	659106.1	84623.65	2081797.					
SD	AD27883-001	25	2018929.	672253.0	80092.12	2049003.					
MS	AD27883-001	26	2057063.	655268.5	85667.42	2083850.					
MSD	AD27883-001	27	2020927.	659382.2	84025.53	2068675.					
PS	AD27883-001	28	2038732.	648124.8	82792.02	2070423.					
SMP	RINSE	29	1960319.	673071.8	78413.76	2006782.					
CCV	CCV V-363701	30	1951819.	649825.1	77386.99	1982888.					
CCB	CCB V-363698	31	1949185.	648352.5	76904.51	1995566.					
SMP	AD27883-002	32	2043817.	651599.6	84195.12	2077519.					
SMP	AD27883-003	33	2035581.	651882.5	89725.30	2061241.					
SMP	AD27755-004	34	2130594.	649062.9	120983.7	2142146.	*				
SMP	AD27755-006	35	2029842.	646983.7	98675.12	2058318.					
SMP	AD27902-003	36	2028309.	648097.5	103587.4	2065145.	*				
SMP	AD27888-001	37	2057390.	666771.1	97266.22	2085073.					
SMP	AD27888-007	38	2049753.	666741.2	95611.87	2064963.					
SMP	AD27893-004	39	2039320.	660758.6	122104.1	2071929.	*				
SMP	AD27893-006	40	1946719.	626836.3	83577.79	1984064.					
SMP	RINSE	41	1946827.	664528.6	77332.60	1999706.					
CCV	CCV V-363701	42	1924860.	644108.2	75429.33	1975013.					
CCB	CCB V-363698	43	1918692.	644863.9	75741.90	1968319.					
SMP	AD27908-002	44	1975577.	606870.2	94144.42	1985765.					
SMP	AD27908-003	45	1982071.	599605.6	95794.87	1992435.					
SMP	AD27908-005	46	2116487.	621523.9	131897.5	2157315.	*				
SMP	AD27908-006	47	1944667.	613169.9	98410.55	1968055.					
SMP	AD27908-007	48	2016190.	616974.6	111855.7	2039048.	*				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AD27810-001	49	1956591.	620161.8	111251.4	*	1990732.
SMP	AD27810-002	50	2066548.	626611.2	108827.7	*	2100377.
SMP	AD27912-001	51	1979887.	637035.1	87732.00		2025938.
SMP	AD27911-003	52	1967854.	637162.6	103515.7	*	1999091.
SMP	RINSE	53	1889339.	645293.1	75468.72		1929354.
CCV	CCV V-363701	54	1893569.	627451.8	74812.58		1929999.
CCB	CCB V-363698	55	1852247.	625129.6	72644.12		1915499.
SMP	RINSE	56	1861132.	626905.9	73501.10		1882116.
CCV	CCV V-363701	57	1889360.	630660.1	74838.32		1919821.
CCB	CCB V-363698	58	1894994.	632214.1	74163.49		1920514.

* Indicates Internal Standard Area outside of limits

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 28089 Analyst: KJ

QC Number: 96697 Prep Date: 12/16/21

Matrix: SOIL (6010) Reviewed By: DL

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL				–	
LCS	0.5g					–	
LCSD						–	
1. 27883 -001							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -001							
MR -001							
MS -001							Balance used: 039
MSD -001							Pipettes used: 153, 149
2. 27883 -002							
3. 1 -003							Hot Block used: 4
4. 27755 -004							
5. 1 -005							
6. 27902 -003							
7. 27898 -001							
8. 1 -007							
9. 27893 -004							
10. 1 -006							
11. 27908 -002							
12. -003							
13. -005							
14. -006							
15. -007							
16. 27810 -001							
17. 1 -002							
18. 27912 -001							
19. 27911 -003							
20.							

Hot Plate Temperature: 94.5° C (90-95° C) Start Time: 12:45 PM End Time: 2:50PM

	Volume mL	Lot #
LCS, LCSD	0.5g	V-14201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 13729, 13730, 358196
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5mL	V- 14296
HCl	5.0mL	V- 14217
H_2O_2	1.5mL	V- 14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0mL	V- 359994
1:1 HCl		V-

Relinquished By KJ Date 12/16/21

Received By DL Date 12/20/21

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Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 28010 Analyst: KS

QC Number: 96698 Prep Date: 12/16/21

Matrix: SOIL (6020) Reviewed By:

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		--	
LCS	0.1g					--	
LCSD	〃					--	
1. 27883 -001	0.5g						Samples are combined prior to analysis to provide extra sample volume for analysis
~~1. Analytical Duplicate~~							
MR -001							
MS -001							Balance used: 039
MSD -001							Pipettes used: 151, 149
2. 27883 -002							
3. 〃 -003							Hot Block used: 4
4. 27755 -004							
5. 〃 -006							
6. 27902 -003							
7. 27888 -001							
8. 〃 -007							
9. 27893 -004							
10. 〃 -006							
11. 27908 -002							
12. -003							
13. -005							
14. -006							
15. -007							
16. 27810 -001							
17. 〃 -002							
18. 27912 -001							
19. 27911 -003							
20.							

Hot Plate Temperature: 94.5° C (90-95° C) Start Time: 12:45PM End Time: 2:50PM

	Volume mL	Lot #
LCS, LCSD	0.1g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 13729, 13730
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5mL	V- 14296
HCl	1.0mL	V- 14217
H_2O_2	1.5mL	V- 14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0mL	V- 359999
1:1 HCl		V-

Relinquished By KS Date 12/16/21

Received By [signature] Date 12/16/21

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Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1120911**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD27810-001	SB-012SS	Soil/Terracore	1	86	Percent			12/10/21	12/09/21	12/08/21
AD27810-002	SB-013SS	Soil/Terracore	1	83	Percent			12/10/21	12/09/21	12/08/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12628

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD27811-061	88	87.53181	Percent	1.29	9.15	8.17	12/10/21	BEENA	0.36	5
Sample	AD27810-001	86	85.52632	Percent	1.28	12.68	11.03	12/10/21	BEENA		
Sample	AD27810-002	83	82.87081	Percent	1.29	11.74	9.95	12/10/21	BEENA		
Sample	AD27811-061	88	87.85047	Percent	1.29	9.85	8.81	12/10/21	BEENA		
Sample	AD27811-062	83	82.86517	Percent	1.28	11.96	10.13	12/10/21	BEENA		
Sample	AD27811-063	82	82.42280	Percent	1.29	9.71	8.23	12/10/21	BEENA		
Sample	AD27811-064	92	92.12963	Percent	1.28	9.92	9.24	12/10/21	BEENA		
Sample	AD27811-065	94	94.25071	Percent	1.27	11.88	11.27	12/10/21	BEENA		
Sample	AD27811-066	93	92.56410	Percent	1.28	9.08	8.50	12/10/21	BEENA		
Sample	AD27811-067	86	86.15385	Percent	1.28	7.78	6.88	12/10/21	BEENA		
Sample	AD27811-068	76	75.76822	Percent	1.28	12.67	9.91	12/10/21	BEENA		
Sample	AD27811-069	87	86.97972	Percent	1.28	10.65	9.43	12/10/21	BEENA		
Sample	AD27811-070	86	86.48325	Percent	1.30	9.66	8.53	12/10/21	BEENA		
Sample	AD27811-071	93	92.62673	Percent	1.29	9.97	9.33	12/10/21	BEENA		
Sample	AD27811-072	94	94.04959	Percent	1.30	7.35	6.99	12/10/21	BEENA		
Sample	AD27813-001	84	83.51499	Percent	1.28	8.62	7.41	12/10/21	BEENA		
Sample	AD27813-002	97	96.91489	Percent	1.28	10.68	10.39	12/10/21	BEENA		
Sample	AD27813-003	85	85.10638	Percent	1.29	9.75	8.49	12/10/21	BEENA		
Sample	AD27813-004	91	90.85106	Percent	1.28	10.68	9.82	12/10/21	BEENA		
Sample	AD27815-001	78	77.85016	Percent	1.28	10.49	8.45	12/10/21	BEENA		
Sample	AD27815-002	82	81.72973	Percent	1.28	10.53	8.85	12/10/21	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 12/10/2021

Report Date: 1/27/2022

Deliverables: MDE-R

Lab ID: AD27822

Lab Project No: 1121003

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1121003

Sample Summary

Client: Intertek-PSI

Project: CSA WMATA 0444100

HC Project #: 1121003

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD27822-001	SB-014SS	Soil/Terracore	12/9/2021	12/10/2021

HC Case Narrative

Client: Intertek-PSI **HC Project:** 1121003
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 98234 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98234 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 95963 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

1/27/2022
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1121003

Project: CSA WMATA 0444100

Lab#: AD27822-001 **Sample ID: SB-014SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.6	12	EPA 6010D
Lead	mg/kg	5.6	150	EPA 6010D
Arsenic	mg/kg	0.22	3.6	EPA 6020B
Diesel Range Organics	mg/kg	67	110	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	67	240	EPA 8015D
2-Methylnaphthalene	mg/kg	0.11	0.32	EPA 8270E
Acenaphthene	mg/kg	0.11	1.2	EPA 8270E
Acenaphthylene	mg/kg	0.11	0.33	EPA 8270E
Anthracene	mg/kg	0.11	2.3	EPA 8270E
Benzo[a]anthracene	mg/kg	0.11	4.8	EPA 8270E
Benzo[a]pyrene	mg/kg	0.11	4.4	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.11	5.6	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.11	2.9	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.11	1.8	EPA 8270E
Carbazole	mg/kg	0.11	1.1	EPA 8270E
Chrysene	mg/kg	0.11	3.9	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.11	0.64	EPA 8270E
Dibenzofuran	mg/kg	0.028	0.95	EPA 8270E
Fluoranthene	mg/kg	0.11	10	EPA 8270E
Fluorene	mg/kg	0.11	0.98	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.11	2.6	EPA 8270E
Naphthalene	mg/kg	0.032	0.65	EPA 8270E
Phenanthrene	mg/kg	0.11	9.1	EPA 8270E
Pyrene	mg/kg	0.11	9.8	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI **HC Project #:** 1121003

Project: CSA WMATA 0444100

Sample ID: SB-014SS **Collection Date:** 12/9/2021
Lab#: AD27822-001 **Receipt Date:** 12/10/2021
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		90

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	67	110

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	122	mg/kg	34	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.6	12
Lead	1	mg/kg	5.6	150

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.22	3.6
Cadmium	1	mg/kg	0.44	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.11	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.11	ND
1,2-Diphenylhydrazine	3	mg/kg	0.11	ND
1,4-Dioxane	3	mg/kg	0.056	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.11	ND
2,4,5-Trichlorophenol	3	mg/kg	0.11	ND
2,4,6-Trichlorophenol	3	mg/kg	0.11	ND
2,4-Dichlorophenol	3	mg/kg	0.042	ND
2,4-Dimethylphenol	3	mg/kg	0.054	ND
2,4-Dinitrophenol	3	mg/kg	0.56	ND
2,4-Dinitrotoluene	3	mg/kg	0.11	ND
2,6-Dinitrotoluene	3	mg/kg	0.11	ND
2-Chloronaphthalene	3	mg/kg	0.11	ND
2-Chlorophenol	3	mg/kg	0.11	ND
2-Methylnaphthalene	3	mg/kg	0.11	0.32
2-Methylphenol	3	mg/kg	0.032	ND
2-Nitroaniline	3	mg/kg	0.11	ND
2-Nitrophenol	3	mg/kg	0.11	ND
3&4-Methylphenol	3	mg/kg	0.032	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.11	ND
3-Nitroaniline	3	mg/kg	0.11	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	0.56	ND
4-Bromophenyl-phenylether	3	mg/kg	0.11	ND
4-Chloro-3-methylphenol	3	mg/kg	0.11	ND
4-Chloroaniline	3	mg/kg	0.049	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.11	ND

Sample ID: SB-014SS	**Collection Date:** 12/9/2021
Lab#: AD27822-001	**Receipt Date:** 12/10/2021
Matrix: Soil/Terracore	

4-Nitroaniline	3	mg/kg	0.11	ND
4-Nitrophenol	3	mg/kg	0.11	ND
Acenaphthene	3	mg/kg	0.11	1.2
Acenaphthylene	3	mg/kg	0.11	0.33
Acetophenone	3	mg/kg	0.11	ND
Anthracene	3	mg/kg	0.11	2.3
Atrazine	3	mg/kg	0.11	ND
Benzaldehyde	3	mg/kg	1.2	ND
Benzidine	3	mg/kg	0.20	ND
Benzo[a]anthracene	3	mg/kg	0.11	4.8
Benzo[a]pyrene	3	mg/kg	0.11	4.4
Benzo[b]fluoranthene	3	mg/kg	0.11	5.6
Benzo[g,h,i]perylene	3	mg/kg	0.11	2.9
Benzo[k]fluoranthene	3	mg/kg	0.11	1.8
Benzyl alcohol	3	mg/kg	0.11	ND
bis(2-Chloroethoxy)methane	3	mg/kg	0.11	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.028	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.11	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.11	ND
Butylbenzylphthalate	3	mg/kg	0.11	ND
Caprolactam	3	mg/kg	0.11	ND
Carbazole	3	mg/kg	0.11	1.1
Chrysene	3	mg/kg	0.11	3.9
Dibenzo[a,h]anthracene	3	mg/kg	0.11	0.64
Dibenzofuran	3	mg/kg	0.028	0.95
Diethylphthalate	3	mg/kg	0.11	ND
Dimethylphthalate	3	mg/kg	0.11	ND
Di-n-butylphthalate	3	mg/kg	0.13	ND
Di-n-octylphthalate	3	mg/kg	0.11	ND
Fluoranthene	3	mg/kg	0.11	10
Fluorene	3	mg/kg	0.11	0.98
Hexachlorobenzene	3	mg/kg	0.11	ND
Hexachlorobutadiene	3	mg/kg	0.11	ND
Hexachlorocyclopentadiene	3	mg/kg	0.36	ND
Hexachloroethane	3	mg/kg	0.11	ND
Indeno[1,2,3-cd]pyrene	3	mg/kg	0.11	2.6
Isophorone	3	mg/kg	0.11	ND
Naphthalene	3	mg/kg	0.032	0.65
Nitrobenzene	3	mg/kg	0.11	ND
N-Nitrosodimethylamine	3	mg/kg	0.14	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.042	ND
N-Nitrosodiphenylamine	3	mg/kg	0.38	ND
Pentachlorophenol	3	mg/kg	0.56	ND
Phenanthrene	3	mg/kg	0.11	9.1
Phenol	3	mg/kg	0.11	ND
Pyrene	3	mg/kg	0.11	9.8

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	67	240

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.758	mg/kg	0.0017	ND
1,1,2,2-Tetrachloroethane	0.758	mg/kg	0.0017	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.758	mg/kg	0.0017	ND
1,1,2-Trichloroethane	0.758	mg/kg	0.0017	ND

Sample ID: SB-014SS			Collection Date: 12/9/2021	
Lab#: AD27822-001			Receipt Date: 12/10/2021	
Matrix: Soil/Terracore				
1,1-Dichloroethane	0.758	mg/kg	0.0017	ND
1,1-Dichloroethene	0.758	mg/kg	0.0017	ND
1,2,3-Trichlorobenzene	0.758	mg/kg	0.0017	ND
1,2,4-Trichlorobenzene	0.758	mg/kg	0.0017	ND
1,2-Dibromo-3-chloropropane	0.758	mg/kg	0.0017	ND
1,2-Dibromoethane	0.758	mg/kg	0.00042	ND
1,2-Dichlorobenzene	0.758	mg/kg	0.0017	ND
1,2-Dichloroethane	0.758	mg/kg	0.0017	ND
1,2-Dichloropropane	0.758	mg/kg	0.0017	ND
1,3-Dichlorobenzene	0.758	mg/kg	0.0017	ND
1,4-Dichlorobenzene	0.758	mg/kg	0.0017	ND
1,4-Dioxane	0.758	mg/kg	0.084	ND
2-Butanone	0.758	mg/kg	0.0017	ND
2-Hexanone	0.758	mg/kg	0.0017	ND
4-Methyl-2-pentanone	0.758	mg/kg	0.0017	ND
Acetone	0.758	mg/kg	0.0084	ND
Acrolein	0.758	mg/kg	0.0084	ND
Acrylonitrile	0.758	mg/kg	0.0017	ND
Benzene	0.758	mg/kg	0.00084	ND
Bromochloromethane	0.758	mg/kg	0.0017	ND
Bromodichloromethane	0.758	mg/kg	0.0017	ND
Bromoform	0.758	mg/kg	0.0017	ND
Bromomethane	0.758	mg/kg	0.0017	ND
Carbon disulfide	0.758	mg/kg	0.0029	ND
Carbon tetrachloride	0.758	mg/kg	0.0017	ND
Chlorobenzene	0.758	mg/kg	0.0017	ND
Chloroethane	0.758	mg/kg	0.0017	ND
Chloroform	0.758	mg/kg	0.0017	ND
Chloromethane	0.758	mg/kg	0.0017	ND
cis-1,2-Dichloroethene	0.758	mg/kg	0.0017	ND
cis-1,3-Dichloropropene	0.758	mg/kg	0.0017	ND
Cyclohexane	0.758	mg/kg	0.0017	ND
Dibromochloromethane	0.758	mg/kg	0.0017	ND
Dichlorodifluoromethane	0.758	mg/kg	0.0017	ND
Ethylbenzene	0.758	mg/kg	0.00084	ND
Isopropylbenzene	0.758	mg/kg	0.00084	ND
m&p-Xylenes	0.758	mg/kg	0.0010	ND
Methyl Acetate	0.758	mg/kg	0.0017	ND
Methylcyclohexane	0.758	mg/kg	0.0017	ND
Methylene chloride	0.758	mg/kg	0.0017	ND
Methyl-t-butyl ether	0.758	mg/kg	0.00084	ND
o-Xylene	0.758	mg/kg	0.00084	ND
Styrene	0.758	mg/kg	0.0017	ND
t-Butyl Alcohol	0.758	mg/kg	0.0084	ND
Tetrachloroethene	0.758	mg/kg	0.0017	ND
Toluene	0.758	mg/kg	0.00084	ND
trans-1,2-Dichloroethene	0.758	mg/kg	0.0017	ND
trans-1,3-Dichloropropene	0.758	mg/kg	0.0017	ND
Trichloroethene	0.758	mg/kg	0.0017	ND
Trichlorofluoromethane	0.758	mg/kg	0.0017	ND
Vinyl chloride	0.758	mg/kg	0.0017	ND
Xylenes (Total)	0.758	mg/kg	0.00084	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 1121003

Project: CSA WMATA 0444100

Lab#: AD27822-001 **Sample ID: SB-014SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/12/21 00:00	disham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/17/21 12:23	marie	EPA 8015D	12/19/21 14:11	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/16/21 16:05	JM
RCRA Metals 6010D	3005&10/3050	12/16/21 08:00	asilva	EPA 6010D	12/16/21 15:37	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/16/21 08:00	asilva	EPA 6020B	12/16/21 18:19	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/21/21 16:30	smarwala	EPA 8270E	12/22/21 16:31	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/17/21 12:23	marie	EPA 8015D	12/19/21 14:11	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/15/21 13:48	SG

Chain of Custody

1121003 0010

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992

CHAIN OF CUSTODY RECORD

A Women-Owned, Disadvantaged, Small Business Enterprise

Project# (Lab Use Only): 1121003

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Std)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek - PSI
Address: 2930 Eskridge Road, Fairfax, VA 22031
1b) Email/Cell/Fax/Ph: (andres.acosta@intertekpsi.com
1c) Send Invoice to: c/o rinzova.renthlei@intertek.com
1d) Send Report to:

Project Information

2a) Project: CSA WMATA
2b) Project Mgr:
2c) Project Location (City/State): Washington, DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # AD27822

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH-GRO/DRO	4 RCRA Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
											1	1						2	
-001	SB-01A5S	S	12/9/21	1315		X	X	X	X	X									

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX		
FEDEX	[signature]	12/10/21	8:02

11) Sampler (print name): RINZOVA RENTHLEI Date: 12/9/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.0

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: INTERTEK-VA **HC Project #:** 1121003

Project: CSA WMATA 0444100

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csmith192.168.1.137
12/10/2021 12:34:19 PM

Per Andy Acosta, The 4 RCRA Metals required are As, Cd, Cr, Pb.

CONDITION UPON RECEIPT

Batch Number AD27822 Entered By: jburwell
Date Entered 12/10/2021 9:22:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.0
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD27822-001	12/10/21 08:02	JBUR	0	M	Received
AD27822-001	12/10/21 09:21	JBUR	0	M	Login
AD27822-001	12/10/21 12:22	BCT	1	A	MIXING/SOLIDS
AD27822-001	12/16/21 08:02	ANS	1	A	TDSI
AD27822-001	12/16/21 10:08	R12	1	A	NONE
AD27822-001	12/17/21 12:23	R12	1	A	NONE
AD27822-001	12/17/21 12:23	MSL	1	A	TPH
AD27822-001	12/21/21 17:13	SMAR	1	A	bna
AD27822-001	12/21/21 17:13	R12	1	A	NONE
AD27822-001	12/10/21 09:26	R31	2	A	NONE
AD27822-001	12/13/21 14:49	JM	2	M	VOA
AD27822-001	12/14/21 14:51	R31	2	A	NONE
AD27822-001	12/15/21 15:58	R31	2	A	NONE
AD27822-001	12/15/21 15:58	JM	2	A	gro
AD27822-001	12/16/21 11:02	JM	2	A	GRO
AD27822-001	12/16/21 11:03	R31	2	A	NONE
AD27822-001	12/10/21 09:27	F19	3	A	NONE
AD27822-001	12/10/21 09:27	F19	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27822-001
Client Id: SB-014SS
Data File: 8M553153.D
Analysis Date: 12/15/21 13:48
Date Rec/Extracted: 12/10/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.6g
Final Vol: NA
Dilution: 0.758
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0017	U	56-23-5	Carbon Tetrachloride	0.0017	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0017	U	108-90-7	Chlorobenzene	0.0017	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0017	U	75-00-3	Chloroethane	0.0017	U
79-00-5	1,1,2-Trichloroethane	0.0017	U	67-66-3	Chloroform	0.0017	U
75-34-3	1,1-Dichloroethane	0.0017	U	74-87-3	Chloromethane	0.0017	U
75-35-4	1,1-Dichloroethene	0.0017	U	156-59-2	cis-1,2-Dichloroethene	0.0017	U
87-61-6	1,2,3-Trichlorobenzene	0.0017	U	10061-01-5	cis-1,3-Dichloropropene	0.0017	U
120-82-1	1,2,4-Trichlorobenzene	0.0017	U	110-82-7	Cyclohexane	0.0017	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0017	U	124-48-1	Dibromochloromethane	0.0017	U
106-93-4	1,2-Dibromoethane	0.00042	U	75-71-8	Dichlorodifluoromethane	0.0017	U
95-50-1	1,2-Dichlorobenzene	0.0017	U	100-41-4	Ethylbenzene	0.00084	U
107-06-2	1,2-Dichloroethane	0.0017	U	98-82-8	Isopropylbenzene	0.00084	U
78-87-5	1,2-Dichloropropane	0.0017	U	79601-23-1	m&p-Xylenes	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0017	U	79-20-9	Methyl Acetate	0.0017	U
106-46-7	1,4-Dichlorobenzene	0.0017	U	108-87-2	Methylcyclohexane	0.0017	U
123-91-1	1,4-Dioxane	0.084	U	75-09-2	Methylene Chloride	0.0017	U
78-93-3	2-Butanone	0.0017	U	1634-04-4	Methyl-t-butyl ether	0.00084	U
591-78-6	2-Hexanone	0.0017	U	95-47-6	o-Xylene	0.00084	U
108-10-1	4-Methyl-2-Pentanone	0.0017	U	100-42-5	Styrene	0.0017	U
67-64-1	Acetone	0.0084	U	75-65-0	t-Butyl Alcohol	0.0084	U
107-02-8	Acrolein	0.0084	U	127-18-4	Tetrachloroethene	0.0017	U
107-13-1	Acrylonitrile	0.0017	U	108-88-3	Toluene	0.00084	U
71-43-2	Benzene	0.00084	U	156-60-5	trans-1,2-Dichloroethene	0.0017	U
74-97-5	Bromochloromethane	0.0017	U	10061-02-6	trans-1,3-Dichloropropene	0.0017	U
75-27-4	Bromodichloromethane	0.0017	U	79-01-6	Trichloroethene	0.0017	U
75-25-2	Bromoform	0.0017	U	75-69-4	Trichlorofluoromethane	0.0017	U
74-83-9	Bromomethane	0.0017	U	75-01-4	Vinyl Chloride	0.0017	U
75-15-0	Carbon Disulfide	0.0029	U	1330-20-7	Xylenes (Total)	0.00084	U

Worksheet #: 622968

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (Not Reviewed)

SampleID : AD27822-001 Operator : SG Qt Meth : 8M_S1206.M
Data File: 8M553153.D Sam Mult : 1 Vial# : 19 Qt On : 12/15/21 15:35
Acq On : 12/15/21 13:48 Misc : S,5G!4 Qt Upd On: 12/07/21 17:51

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	302169	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	267154	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	128796	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	76197	26.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.03%			
39) 1,2-Dichloroethane-d4	4.886	67	27427	23.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 78.47%			
66) Toluene-d8	5.966	98	317230	28.98	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.60%			
76) Bromofluorobenzene	7.384	174	98751	31.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.73%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

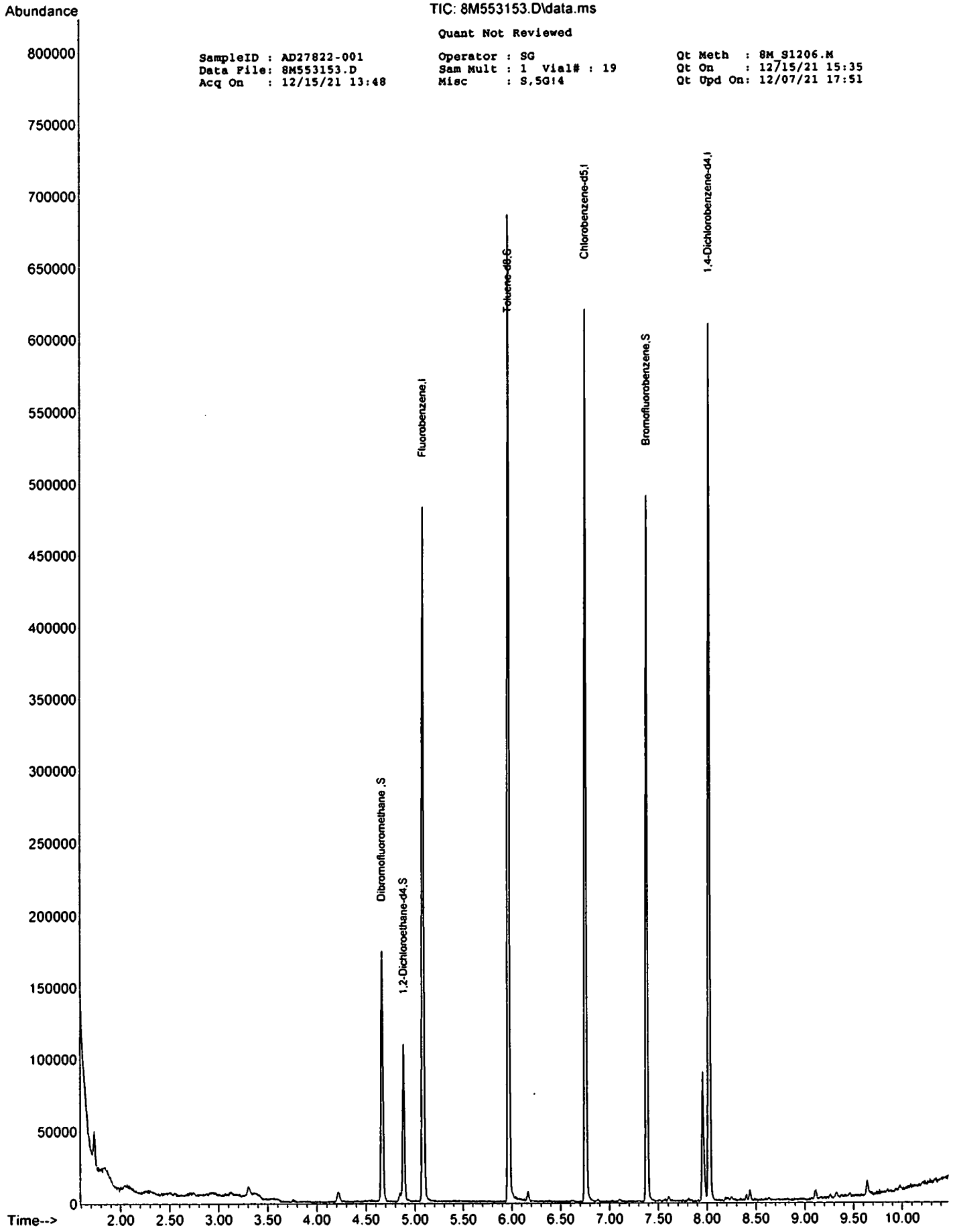
TIC: 8M553153.D\data.ms

Quant Not Reviewed

SampleID : AD27822-001
Data File: 8M553153.D
Acq On : 12/15/21 13:48

Operator : SG
Sam Mult : 1 Vial# : 19
Misc : S,5G!4

Qt Meth : 8M_S1206.M
Qt On : 12/15/21 15:35
Qt Upd On: 12/07/21 17:51



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M553149.D
Analysis Date: 12/15/21 12:28
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00050	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 622968

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

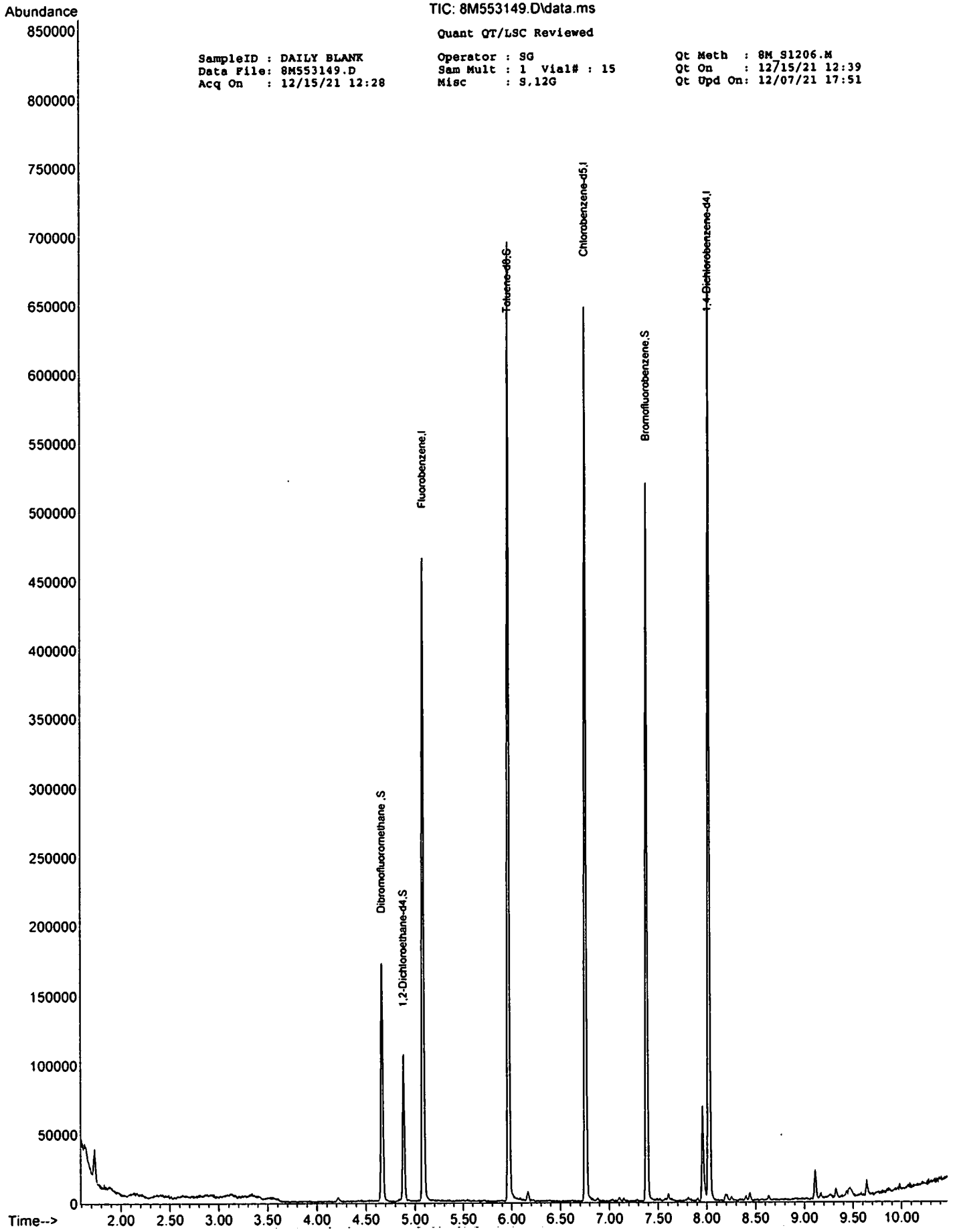
Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK Operator : SG Qt Meth : 8M_S1206.M
Data File: 8M553149.D Sam Mult : 1 Vial# : 15 Qt On : 12/15/21 12:39
Acq On : 12/15/21 12:28 Misc : S,12G Qt Upd On: 12/07/21 17:51

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	294932	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	278184	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	147050	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	73553	25.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.07%			
39) 1,2-Dichloroethane-d4	4.883	67	25801	22.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 75.63%			
66) Toluene-d8	5.970	98	321450	28.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.00%			
76) Bromofluorobenzene	7.388	174	108984	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.23%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553149.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 8M553149.D
Acq On : 12/15/21 12:28
Operator : SG
Sam Mult : 1 Vial# : 15
Misc : S,12G
Qt Meth : 8M_S1206.M
Qt On : 12/15/21 12:39
Qt Upd On: 12/07/21 17:51
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8M553149.D	DAILY BLANK	S	12/15/21 12:28	1		86	76	94	102		
8M553153.D	AD27822-001	S	12/15/21 13:48	1		87	78	97	106		
8M553160.D	AD27849-014	S	12/15/21 16:10	1		88	75	94	104		
8M553163.D	MBS98234	S	12/15/21 17:10	1		87	82	93	101		
8M553164.D	AD27849-014(MS)	S	12/15/21 17:31	1		90	83	96	106		
8M553165.D	AD27849-014(MSD)	S	12/15/21 17:51	1		89	86	93	104		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M553163.D	MBS98234	12/15/2021 5:10:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	29.826	0	50	60	20	130
Dichlorodifluoromethane	1	24.0016	0	50	48	20	130
Chloromethane	1	28.0481	0	50	56	20	130
Bromomethane	1	37.0184	0	50	74	20	130
Vinyl Chloride	1	33.9993	0	50	68	20	130
Chloroethane	1	35.1585	0	50	70	20	130
Trichlorofluoromethane	1	29.1342	0	50	58	20	130
Ethyl ether	1	32.3778	0	50	65	50	130
Furan	1	29.1924	0	50	58	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	34.1124	0	50	68	50	130
Methylene Chloride	1	38.9642	0	50	78	50	130
Acrolein	1	140.1889	0	200	70	20	130
Acrylonitrile	1	35.0462	0	50	70	20	130
Iodomethane	1	43.0852	0	50	86	50	130
Acetone	1	107.9142	0	200	54	20	130
Carbon Disulfide	1	35.2481	0	50	70	50	130
t-Butyl Alcohol	1	160.2695	0	200	80	20	130
n-Hexane	1	45.3931	0	50	91	50	130
Di-isopropyl-ether	1	20.9499	0	50	42*	50	130
1,1-Dichloroethene	1	25.6506	0	50	51	50	130
Methyl Acetate	1	29.0739	0	50	58	50	130
Methyl-t-butyl ether	1	41.9876	0	50	84	50	130
1,1-Dichloroethane	1	34.8265	0	50	70	50	130
trans-1,2-Dichloroethene	1	42.0262	0	50	84	50	130
Ethyl-t-butyl ether	1	39.1708	0	50	78	50	130
cis-1,2-Dichloroethene	1	40.4701	0	50	81	50	130
Bromochloromethane	1	36.5556	0	50	73	50	130
2,2-Dichloropropane	1	37.5901	0	50	75	50	130
Ethyl acetate	1	35.3278	0	50	71	50	130
1,4-Dioxane	1	2012.552	0	2500	81	50	130
1,1-Dichloropropene	1	40.8616	0	50	82	50	130
Chloroform	1	42.2547	0	50	85	50	130
Cyclohexane	1	42.8515	0	50	86	50	130
1,2-Dichloroethane	1	35.3669	0	50	71	50	130
2-Butanone	1	33.3922	0	50	67	20	130
1,1,1-Trichloroethane	1	29.4342	0	50	59	50	130
Carbon Tetrachloride	1	39.6344	0	50	79	50	130
Vinyl Acetate	1	20.8749	0	50	42*	50	130
Bromodichloromethane	1	41.9876	0	50	84	50	130
Methylcyclohexane	1	45.0224	0	50	90	50	130
Dibromomethane	1	45.6776	0	50	91	50	130
1,2-Dichloropropane	1	46.4544	0	50	93	50	130
Trichloroethene	1	41.3587	0	50	83	50	130
Benzene	1	46.1465	0	50	92	50	130
tert-Amyl methyl ether	1	29.9445	0	50	60	50	130
Iso-propylacetate	1	24.356	0	50	49*	50	130
Methyl methacrylate	1	30.4719	0	50	61	50	130
Dibromochloromethane	1	36.8702	0	50	74	50	130
2-Chloroethylvinylether	1	29.8432	0	50	60	50	130
cis-1,3-Dichloropropene	1	33.0153	0	50	66	50	130
trans-1,3-Dichloropropene	1	26.0315	0	50	52	50	130
Ethyl methacrylate	1	33.5358	0	50	67	50	130
1,1,2-Trichloroethane	1	39.3635	0	50	79	50	130
1,2-Dibromoethane	1	51.2737	0	50	103	50	130
1,3-Dichloropropane	1	43.0879	0	50	86	50	130
4-Methyl-2-Pentanone	1	27.5387	0	50	55	20	130
2-Hexanone	1	26.7053	0	50	53	20	130
Tetrachloroethene	1	35.0911	0	50	70	50	130
Toluene	1	38.8308	0	50	78	50	130
1,1,1,2-Tetrachloroethane	1	39.2153	0	50	78	50	130
Chlorobenzene	1	38.8675	0	50	78	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	42.6169	0	50	85	50	130
n-Amyl acetate	1	38.9769	0	50	78	50	130
Bromoform	**1**	**37.0609**	**0**	**50**	**74**	**20**	**130**
Ethylbenzene	**1**	**41.1963**	**0**	**50**	**82**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**37.6027**	**0**	**50**	**75**	**50**	**130**
Styrene	**1**	**43.1843**	**0**	**50**	**86**	**50**	**130**
m&p-Xylenes	**1**	**79.9698**	**0**	**100**	**80**	**50**	**130**
o-Xylene	**1**	**41.6233**	**0**	**50**	**83**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	26.0035	0	50	52	20	130
1,3-Dichlorobenzene	**1**	**38.3393**	**0**	**50**	**77**	**50**	**130**
1,4-Dichlorobenzene	**1**	**37.3313**	**0**	**50**	**75**	**50**	**130**
1,2-Dichlorobenzene	**1**	**38.1788**	**0**	**50**	**76**	**50**	**130**
Isopropylbenzene	**1**	**39.1293**	**0**	**50**	**78**	**50**	**130**
Cyclohexanone	1	229.9436	0	250	92	50	130
Camphene	1	31.9599	0	50	64	50	130
1,2,3-Trichloropropane	1	35.1951	0	50	70	50	130
2-Chlorotoluene	1	38.6117	0	50	77	50	130
p-Ethyltoluene	1	42.1683	0	50	84	50	130
4-Chlorotoluene	1	37.1102	0	50	74	50	130
n-Propylbenzene	1	37.2569	0	50	75	50	130
Bromobenzene	1	35.4089	0	50	71	50	130
1,3,5-Trimethylbenzene	1	37.0171	0	50	74	50	130
Butyl methacrylate	1	35.486	0	50	71	50	130
t-Butylbenzene	1	35.9304	0	50	72	50	130
1,2,4-Trimethylbenzene	1	39.5929	0	50	79	50	130
sec-Butylbenzene	1	37.6949	0	50	75	50	130
4-Isopropyltoluene	1	36.939	0	50	74	50	130
n-Butylbenzene	1	37.3564	0	50	75	50	130
p-Diethylbenzene	1	40.024	0	50	80	50	130
1,2,4,5-Tetramethylbenzene	1	39.6066	0	50	79	50	130
1,2-Dibromo-3-Chloropropane	**1**	**36.7481**	**0**	**50**	**73**	**50**	**130**
Camphor	1	133.2067	0	500	27 *	50	130
Hexachlorobutadiene	1	28.5376	0	50	57	50	130
1,2,4-Trichlorobenzene	**1**	**39.3171**	**0**	**50**	**79**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**36.9653**	**0**	**50**	**74**	**50**	**130**
Naphthalene	1	32.2092	0	50	64	50	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553164.D	AD27849-014(MS)	12/15/2021 5:31:00 PM
Non Spike(If applicable):	8M553160.D	AD27849-014	12/15/2021 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.0876	0	50	54	20	130
Dichlorodifluoromethane	1	19.7694	0	50	40	20	130
Chloromethane	1	25.4769	0	50	51	20	130
Bromomethane	1	31.381	0	50	63	20	130
Vinyl Chloride	1	30.9659	0	50	62	20	130
Chloroethane	1	26.5119	0	50	53	20	130
Trichlorofluoromethane	1	27.8574	0	50	56	20	130
Ethyl ether	1	30.22	0	50	60	50	130
Furan	1	22.1395	0	50	44*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.8306	0	50	66	50	130
Methylene Chloride	1	37.992	6.8875	50	62	50	130
Acrolein	1	98.766	0	200	49	20	130
Acrylonitrile	1	30.0811	0	50	60	20	130
Iodomethane	1	35.5467	0	50	71	50	130
Acetone	1	155.3701	68.3723	200	43	20	130
Carbon Disulfide	1	33.1051	0	50	66	50	130
t-Butyl Alcohol	1	149.4839	0	200	75	20	130
n-Hexane	1	41.9484	0	50	84	50	130
Di-isopropyl-ether	1	23.827	0	50	48*	50	130
1,1-Dichloroethene	1	25.4219	0	50	51	50	130
Methyl Acetate	1	34.3246	0	50	69	50	130
Methyl-t-butyl ether	1	43.3938	0	50	87	50	130
1,1-Dichloroethane	1	32.2084	0	50	64	50	130
trans-1,2-Dichloroethene	1	41.3567	0	50	83	50	130
Ethyl-t-butyl ether	1	50.0308	0	50	100	50	130
cis-1,2-Dichloroethene	1	38.706	0	50	77	50	130
Bromochloromethane	1	36.16	0	50	72	50	130
2,2-Dichloropropane	1	32.1908	0	50	64	50	130
Ethyl acetate	1	21.7736	0	50	44*	50	130
1,4-Dioxane	1	1832.884	0	2500	73	50	130
1,1-Dichloropropene	1	38.4958	0	50	77	50	130
Chloroform	1	40.8971	0	50	82	50	130
Cyclohexane	1	40.0423	0	50	80	50	130
1,2-Dichloroethane	1	34.8673	0	50	70	50	130
2-Butanone	1	3.6066	0	50	7.2*	20	130
1,1,1-Trichloroethane	1	25.1906	0	50	50	50	130
Carbon Tetrachloride	1	36.7286	0	50	73	50	130
Vinyl Acetate	1	23.3264	0	50	47*	50	130
Bromodichloromethane	1	40.722	0	50	81	50	130
Methylcyclohexane	1	41.2431	0	50	82	50	130
Dibromomethane	1	43.3686	0	50	87	50	130
1,2-Dichloropropane	1	44.0911	0	50	88	50	130
Trichloroethene	1	40.6252	0	50	81	50	130
Benzene	1	44.7207	0	50	89	50	130
tert-Amyl methyl ether	1	50.4756	0	50	101	50	130
Iso-propylacetate	1	10.9684	0	50	22*	50	130
Methyl methacrylate	1	37.1814	0	50	74	50	130
Dibromochloromethane	1	36.9842	0	50	74	50	130
2-Chloroethylvinylether	1	30.4547	0	50	61	50	130
cis-1,3-Dichloropropene	1	32.3423	0	50	65	50	130
trans-1,3-Dichloropropene	1	26.717	0	50	53	50	130
Ethyl methacrylate	1	22.441	0	50	45*	50	130
1,1,2-Trichloroethane	1	39.0596	0	50	78	50	130
1,2-Dibromoethane	1	48.1546	0	50	96	50	130
1,3-Dichloropropane	1	43.7185	0	50	87	50	130
4-Methyl-2-Pentanone	1	27.6457	0	50	55	20	130
2-Hexanone	1	23.7215	0	50	47	20	130
Tetrachloroethene	1	35.6688	0	50	71	50	130
Toluene	1	38.8708	0	50	78	50	130
1,1,1,2-Tetrachloroethane	1	38.0881	0	50	76	50	130
Chlorobenzene	1	38.5935	0	50	77	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	29.9545	0	50	60	50	130
n-Amyl acetate	1	24.0328	0	50	48*	50	130
Bromoform	1	38.0227	0	50	76	20	130
Ethylbenzene	1	40.8051	0	50	82	50	130
1,1,2,2-Tetrachloroethane	1	38.8254	0	50	78	50	130
Styrene	1	43.6639	0	50	87	50	130
m&p-Xylenes	1	81.8732	0	100	82	50	130
o-Xylene	1	42.2793	0	50	85	50	130
trans-1,4-Dichloro-2-butene	1	24.5527	0	50	49	20	130
1,3-Dichlorobenzene	1	36.0184	0	50	72	50	130
1,4-Dichlorobenzene	1	35.3241	0	50	71	50	130
1,2-Dichlorobenzene	1	35.6928	0	50	71	50	130
Isopropylbenzene	1	38.5523	0	50	77	50	130
Cyclohexanone	1	179.7916	0	250	72	50	130
Camphene	1	30.641	0	50	61	50	130
1,2,3-Trichloropropane	1	34.1585	0	50	68	50	130
2-Chlorotoluene	1	36.8803	0	50	74	50	130
p-Ethyltoluene	1	41.1434	0	50	82	50	130
4-Chlorotoluene	1	36.9896	0	50	74	50	130
n-Propylbenzene	1	36.6041	0	50	73	50	130
Bromobenzene	1	31.5729	0	50	63	50	130
1,3,5-Trimethylbenzene	1	36.938	0	50	74	50	130
Butyl methacrylate	1	25.9911	0	50	52	50	130
t-Butylbenzene	1	34.8028	0	50	70	50	130
1,2,4-Trimethylbenzene	1	38.577	0	50	77	50	130
sec-Butylbenzene	1	34.2654	0	50	69	50	130
4-Isopropyltoluene	1	34.777	0	50	70	50	130
n-Butylbenzene	1	32.6278	0	50	65	50	130
p-Diethylbenzene	1	36.2243	0	50	72	50	130
1,2,4,5-Tetramethylbenzene	1	35.8349	0	50	72	50	130
1,2-Dibromo-3-Chloropropane	1	32.6578	0	50	65	50	130
Camphor	1	908.5166	0	500	182*	50	130
Hexachlorobutadiene	1	19.7569	0	50	40*	50	130
1,2,4-Trichlorobenzene	1	30.0685	0	50	60	50	130
1,2,3-Trichlorobenzene	1	27.9071	0	50	56	50	130
Naphthalene	1	31.1402	0	50	62	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553165.D	AD27849-014(MSD)	12/15/2021 5:51:00 PM
Non Spike(If applicable):	8M553160.D	AD27849-014	12/15/2021 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	25.1675	0	50	50	20	130
Dichlorodifluoromethane	1	20.4586	0	50	41	20	130
Chloromethane	1	27.1059	0	50	54	20	130
Bromomethane	1	35.009	0	50	70	20	130
Vinyl Chloride	1	32.2938	0	50	65	20	130
Chloroethane	1	29.2169	0	50	58	20	130
Trichlorofluoromethane	1	28.0719	0	50	56	20	130
Ethyl ether	1	32.0632	0	50	64	50	130
Furan	1	23.4424	0	50	47*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	33.7656	0	50	68	50	130
Methylene Chloride	1	41.5224	6.8875	50	69	50	130
Acrolein	1	93.8678	0	200	47	20	130
Acrylonitrile	1	31.5404	0	50	63	20	130
Iodomethane	1	35.3555	0	50	71	50	130
Acetone	1	161.6986	68.3723	200	47	20	130
Carbon Disulfide	1	34.0513	0	50	68	50	130
t-Butyl Alcohol	1	158.6011	0	200	79	20	130
n-Hexane	1	43.8493	0	50	88	50	130
Di-isopropyl-ether	1	30.8266	0	50	62	50	130
1,1-Dichloroethene	1	25.1894	0	50	50	50	130
Methyl Acetate	1	35.735	0	50	71	50	130
Methyl-t-butyl ether	1	47.5668	0	50	95	50	130
1,1-Dichloroethane	1	33.564	0	50	67	50	130
trans-1,2-Dichloroethene	1	41.5117	0	50	83	50	130
Ethyl-t-butyl ether	1	51.917	0	50	104	50	130
cis-1,2-Dichloroethene	1	38.7205	0	50	77	50	130
Bromochloromethane	1	36.4119	0	50	73	50	130
2,2-Dichloropropane	1	33.8056	0	50	68	50	130
Ethyl acetate	1	25.8217	0	50	52	50	130
1,4-Dioxane	1	2008.466	0	2500	80	50	130
1,1-Dichloropropene	1	38.1845	0	50	76	50	130
Chloroform	1	40.4783	0	50	81	50	130
Cyclohexane	1	42.1077	0	50	84	50	130
1,2-Dichloroethane	1	34.5732	0	50	69	50	130
2-Butanone	1	4.9614	0	50	9.9*	20	130
1,1,1-Trichloroethane	1	27.2842	0	50	55	50	130
Carbon Tetrachloride	1	38.9593	0	50	78	50	130
Vinyl Acetate	1	28.5838	0	50	57	50	130
Bromodichloromethane	1	41.0835	0	50	82	50	130
Methylcyclohexane	1	41.766	0	50	84	50	130
Dibromomethane	1	44.3908	0	50	89	50	130
1,2-Dichloropropane	1	44.3639	0	50	89	50	130
Trichloroethene	1	39.8719	0	50	80	50	130
Benzene	1	44.2573	0	50	89	50	130
tert-Amyl methyl ether	1	62.1728	0	50	124	50	130
Iso-propylacetate	1	17.9509	0	50	36*	50	130
Methyl methacrylate	1	35.7848	0	50	72	50	130
Dibromochloromethane	1	36.1383	0	50	72	50	130
2-Chloroethylvinylether	1	28.1049	0	50	56	50	130
cis-1,3-Dichloropropene	1	32.7902	0	50	66	50	130
trans-1,3-Dichloropropene	1	27.397	0	50	55	50	130
Ethyl methacrylate	1	24.22	0	50	48*	50	130
1,1,2-Trichloroethane	1	38.733	0	50	77	50	130
1,2-Dibromoethane	1	51.3944	0	50	103	50	130
1,3-Dichloropropane	1	42.7485	0	50	85	50	130
4-Methyl-2-Pentanone	1	28.5918	0	50	57	20	130
2-Hexanone	1	23.6741	0	50	47	20	130
Tetrachloroethene	1	33.7119	0	50	67	50	130
Toluene	1	37.9548	0	50	76	50	130
1,1,1,2-Tetrachloroethane	1	36.4337	0	50	73	50	130
Chlorobenzene	1	37.004	0	50	74	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	30.6983	0	50	61	50	130
n-Amyl acetate	1	24.423	0	50	49*	50	130
Bromoform	1	35.2436	0	50	70	20	130
Ethylbenzene	1	40.8803	0	50	82	50	130
1,1,2,2-Tetrachloroethane	1	37.4082	0	50	75	50	130
Styrene	1	41.308	0	50	83	50	130
m&p-Xylenes	1	80.0448	0	100	80	50	130
o-Xylene	1	41.0189	0	50	82	50	130
trans-1,4-Dichloro-2-butene	1	24.2601	0	50	49	20	130
1,3-Dichlorobenzene	1	35.1966	0	50	70	50	130
1,4-Dichlorobenzene	1	34.3169	0	50	69	50	130
1,2-Dichlorobenzene	1	34.976	0	50	70	50	130
Isopropylbenzene	1	37.3431	0	50	75	50	130
Cyclohexanone	1	139.8752	0	250	56	50	130
Camphene	1	30.9322	0	50	62	50	130
1,2,3-Trichloropropane	1	34.1842	0	50	68	50	130
2-Chlorotoluene	1	35.6597	0	50	71	50	130
p-Ethyltoluene	1	40.1513	0	50	80	50	130
4-Chlorotoluene	1	36.3787	0	50	73	50	130
n-Propylbenzene	1	35.5554	0	50	71	50	130
Bromobenzene	1	31.2214	0	50	62	50	130
1,3,5-Trimethylbenzene	1	34.6119	0	50	69	50	130
Butyl methacrylate	1	26.5007	0	50	53	50	130
t-Butylbenzene	1	33.446	0	50	67	50	130
1,2,4-Trimethylbenzene	1	37.3452	0	50	75	50	130
sec-Butylbenzene	1	33.541	0	50	67	50	130
4-Isopropyltoluene	1	34.1679	0	50	68	50	130
n-Butylbenzene	1	32.3621	0	50	65	50	130
p-Diethylbenzene	1	35.7738	0	50	72	50	130
1,2,4,5-Tetramethylbenzene	1	34.88	0	50	70	50	130
1,2-Dibromo-3-Chloropropane	1	32.9601	0	50	66	50	130
Camphor	1	1271.926	0	500	254*	50	130
Hexachlorobutadiene	1	20.1841	0	50	40*	50	130
1,2,4-Trichlorobenzene	1	31.2195	0	50	62	50	130
1,2,3-Trichlorobenzene	1	28.7389	0	50	57	50	130
Naphthalene	1	31.301	0	50	63	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98234

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553165.D	AD27849-014(MSD)	12/15/2021 5:51:00 PM
Duplicate(If applicable):	8M553164.D	AD27849-014(MS)	12/15/2021 5:31:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	25.1675	27.0876	7.3	30
Dichlorodifluoromethane	1	20.4586	19.7694	3.4	30
Chloromethane	1	27.1059	25.4769	6.2	30
Bromomethane	1	35.009	31.381	11	30
Vinyl Chloride	1	32.2938	30.9659	4.2	40
Chloroethane	1	29.2169	26.5119	9.7	30
Trichlorofluoromethane	1	28.0719	27.8574	0.77	30
Ethyl ether	1	32.0632	30.22	5.9	30
Furan	1	23.4424	22.1395	5.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	33.7656	32.8306	2.8	30
Methylene Chloride	1	41.5224	37.992	8.9	30
Acrolein	1	93.8678	98.766	5.1	30
Acrylonitrile	1	31.5404	30.0811	4.7	30
Iodomethane	1	35.3555	35.5467	0.54	30
Acetone	1	161.6986	155.3701	4	30
Carbon Disulfide	1	34.0513	33.1051	2.8	30
t-Butyl Alcohol	1	158.6011	149.4839	5.9	30
n-Hexane	1	43.8493	41.9484	4.4	30
Di-isopropyl-ether	1	30.8266	23.827	26	30
1,1-Dichloroethene	1	25.1894	25.4219	0.92	40
Methyl Acetate	1	35.735	34.3246	4	30
Methyl-t-butyl ether	1	47.5668	43.3938	9.2	30
1,1-Dichloroethane	1	33.564	32.2084	4.1	40
trans-1,2-Dichloroethene	1	41.5117	41.3567	0.37	30
Ethyl-t-butyl ether	1	51.917	50.0308	3.7	30
cis-1,2-Dichloroethene	1	38.7205	38.706	0.04	30
Bromochloromethane	1	36.4119	36.16	0.69	30
2,2-Dichloropropane	1	33.8056	32.1908	4.9	30
Ethyl acetate	1	25.8217	21.7736	17	30
1,4-Dioxane	1	2008.466	1832.884	9.1	30
1,1-Dichloropropene	1	38.1845	38.4958	0.81	30
Chloroform	1	40.4783	40.8971	1	40
Cyclohexane	1	42.1077	40.0423	5	30
1,2-Dichloroethane	1	34.5732	34.8673	0.85	40
2-Butanone	1	4.9614	3.6066	32	40
1,1,1-Trichloroethane	1	27.2842	25.1906	8	30
Carbon Tetrachloride	1	38.9593	36.7286	5.9	40
Vinyl Acetate	1	28.5838	23.3264	20	30
Bromodichloromethane	1	41.0835	40.722	0.88	30
Methylcyclohexane	1	41.766	41.2431	1.3	30
Dibromomethane	1	44.3908	43.3686	2.3	30
1,2-Dichloropropane	1	44.3639	44.0911	0.62	30
Trichloroethene	1	39.8719	40.6252	1.9	40
Benzene	1	44.2573	44.7207	1	40
tert-Amyl methyl ether	1	62.1728	50.4756	21	30
Iso-propylacetate	1	17.9509	10.9684	48*	30
Methyl methacrylate	1	35.7848	37.1814	3.8	30
Dibromochloromethane	1	36.1383	36.9842	2.3	30
2-Chloroethylvinylether	1	28.1049	30.4547	8	30
cis-1,3-Dichloropropene	1	32.7902	32.3423	1.4	30
trans-1,3-Dichloropropene	1	27.397	26.717	2.5	30
Ethyl methacrylate	1	24.22	22.441	7.6	30
1,1,2-Trichloroethane	1	38.733	39.0596	0.84	30
1,2-Dibromoethane	1	51.3944	48.1546	6.5	30
1,3-Dichloropropane	1	42.7485	43.7185	2.2	30
4-Methyl-2-Pentanone	1	28.5918	27.6457	3.4	30
2-Hexanone	1	23.6741	23.7215	0.2	30
Tetrachloroethene	1	33.7119	35.6688	5.6	40
Toluene	1	37.9548	38.8708	2.4	40
1,1,1,2-Tetrachloroethane	1	36.4337	38.0881	4.4	30
Chlorobenzene	1	37.004	38.5935	4.2	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS98234

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	30.6983	29.9545	2.5	30
n-Amyl acetate	1	24.423	24.0328	1.6	30
Bromoform	1	35.2436	38.0227	7.6	30
Ethylbenzene	1	40.8803	40.8051	0.18	30
1,1,2,2-Tetrachloroethane	1	37.4082	38.8254	3.7	30
Styrene	1	41.308	43.6639	5.5	30
m&p-Xylenes	1	80.0448	81.8732	2.3	30
o-Xylene	1	41.0189	42.2793	3	30
trans-1,4-Dichloro-2-butene	1	24.2601	24.5527	1.2	30
1,3-Dichlorobenzene	1	35.1966	36.0184	2.3	30
1,4-Dichlorobenzene	1	34.3169	35.3241	2.9	40
1,2-Dichlorobenzene	1	34.976	35.6928	2	40
Isopropylbenzene	1	37.3431	38.5523	3.2	30
Cyclohexanone	1	139.8752	179.7916	25	30
Camphene	1	30.9322	30.641	0.95	30
1,2,3-Trichloropropane	1	34.1842	34.1585	0.08	30
2-Chlorotoluene	1	35.6597	36.8803	3.4	30
p-Ethyltoluene	1	40.1513	41.1434	2.4	30
4-Chlorotoluene	1	36.3787	36.9896	1.7	30
n-Propylbenzene	1	35.5554	36.6041	2.9	40
Bromobenzene	1	31.2214	31.5729	1.1	30
1,3,5-Trimethylbenzene	1	34.6119	36.938	6.5	30
Butyl methacrylate	1	26.5007	25.9911	1.9	30
t-Butylbenzene	1	33.446	34.8028	4	30
1,2,4-Trimethylbenzene	1	37.3452	38.577	3.2	30
sec-Butylbenzene	1	33.541	34.2654	2.1	40
4-Isopropyltoluene	1	34.1679	34.777	1.8	30
n-Butylbenzene	1	32.3621	32.6278	0.82	30
p-Diethylbenzene	1	35.7738	36.2243	1.3	30
1,2,4,5-Tetramethylbenzene	1	34.88	35.8349	2.7	30
1,2-Dibromo-3-Chloropropane	1	32.9601	32.6578	0.92	30
Camphor	1	1271.926	908.5166	33*	30
Hexachlorobutadiene	1	20.1841	19.7569	2.1	30
1,2,4-Trichlorobenzene	1	31.2195	30.0685	3.8	30
1,2,3-Trichlorobenzene	1	28.7389	27.9071	2.9	30
Naphthalene	1	31.301	31.1402	0.52	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M553149.D
Matrix: Soil

Blank Analysis Date: 12/15/21 12:28
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD27822-001	8M553153.D	12/15/21 13:48
AD27849-014(MSD	8M553165.D	12/15/21 17:51
AD27849-014(MS)	8M553164.D	12/15/21 17:31
MBS98234	8M553163.D	12/15/21 17:10
AD27849-014	8M553160.D	12/15/21 16:10

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M552664.D
Analysis Date: 12/06/21 19:58
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.359 to 7.394 min

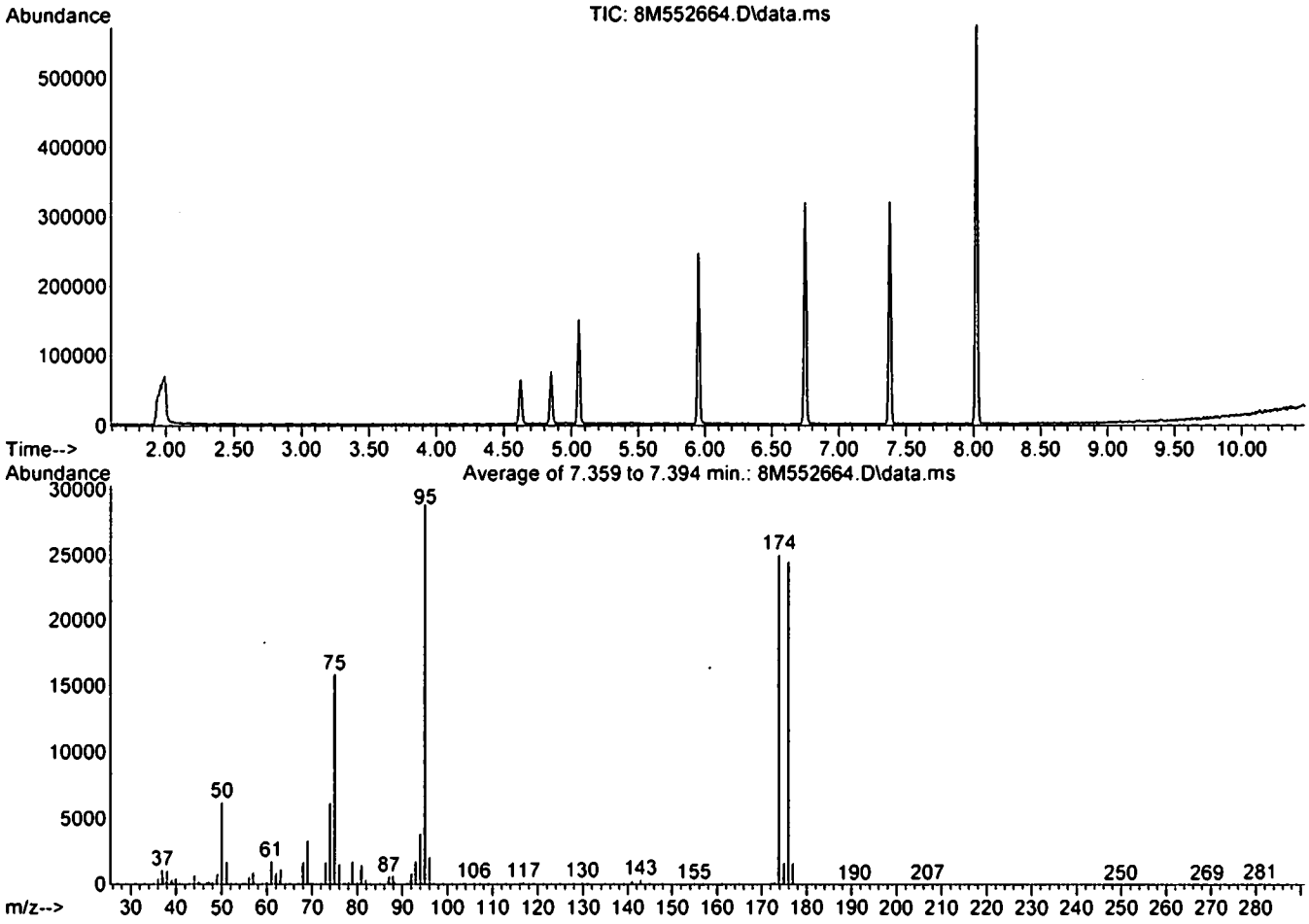
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.5	6222	PASS
75	95	30	60	55.1	15910	PASS
95	95	100	100	100.0	28896	PASS
96	95	5	9	7.2	2086	PASS
173	174	0.00	2	0.9	214	PASS
174	95	50	100	86.7	25046	PASS
175	174	5	9	6.6	1659	PASS
176	174	95	101	98.1	24576	PASS
177	176	5	9	6.7	1640	PASS

Data File	Sample Number	Analysis Date:
8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37
8M552667.D	CAL @ 1 PPB	12/06/21 20:57
8M552668.D	CAL @ 5 PPB	12/06/21 21:17
8M552669.D	CAL @ 2 PPB	12/06/21 21:38
8M552670.D	CAL @ 20 PPB	12/06/21 21:58
8M552671.D	CAL @ 50 PPB	12/06/21 22:18
8M552672.D	CAL @ 100 PPB	12/06/21 22:38
8M552673.D	CAL @ 250 PPB	12/06/21 22:58
8M552674.D	CAL @ 500 PPB	12/06/21 23:18
8M552675.D	BLK	12/06/21 23:39
8M552676.D	BLK	12/06/21 23:59
8M552677.D	BLK	12/07/21 00:19
8M552678.D	BLK	12/07/21 00:39
8M552679.D	ICV	12/07/21 00:59
8M552680.D	BLK	12/07/21 01:15
8M552681.D	STD	12/07/21 01:30
8M552682.D	BLK	12/07/21 01:50
8M552683.D	BLK	12/07/21 02:10
8M552684.D	DAILY BLANK	12/07/21 02:31
8M552685.D	AD27723-001	12/07/21 02:51
8M552686.D	AD27667-001	12/07/21 03:11
8M552687.D	AD27667-002	12/07/21 03:31
8M552688.D	AD27667-003	12/07/21 03:51
8M552689.D	AD27723-001(MS)	12/07/21 04:12
8M552690.D	AD27723-001(MSD	12/07/21 04:32
8M552691.D	MBS98151	12/07/21 04:52
8M552692.D	BLK	12/07/21 05:12
8M552693.D	AD27723-002	12/07/21 05:32
8M552694.D	AD27723-003	12/07/21 05:53
8M552695.D	AD27723-004	12/07/21 06:13
8M552696.D	AD27723-005	12/07/21 06:33
8M552697.D	AD27723-006	12/07/21 06:53
8M552698.D	AD27723-007	12/07/21 07:13
8M552699.D	AD27723-008	12/07/21 07:34
8M552700.D	AD27710-018(5X)	12/07/21 07:54
8M552701.D	STD	12/07/21 08:14
8M552702.D	STD	12/07/21 08:34
8M552703.D	BLK	12/07/21 08:54
8M552704.D	BLK	12/07/21 09:15
8M552705.D	BLK	12/07/21 09:35
8M552706.D	BLK	12/07/21 09:55
8M552707.D	BLK	12/07/21 10:15
8M552708.D	BLK	12/07/21 10:57

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-06-21\
Data File : 8M552664.D
Acq On : 06 Dec 2021 19:58
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_S1007.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Oct 07 15:40:24 2021



Spectrum Information: Average of 7.359 to 7.394 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	6222	PASS
75	95	30	60	55.1	15910	PASS
95	95	100	100	100.0	28896	PASS
96	95	5	9	7.2	2086	PASS
173	174	0.00	2	0.9	214	PASS
174	95	50	100	86.7	25046	PASS
175	174	5	9	6.6	1659	PASS
176	174	95	101	98.1	24576	PASS
177	176	5	9	6.7	1640	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M553142.D
Analysis Date: 12/15/21 10:07
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.365 to 7.378 min

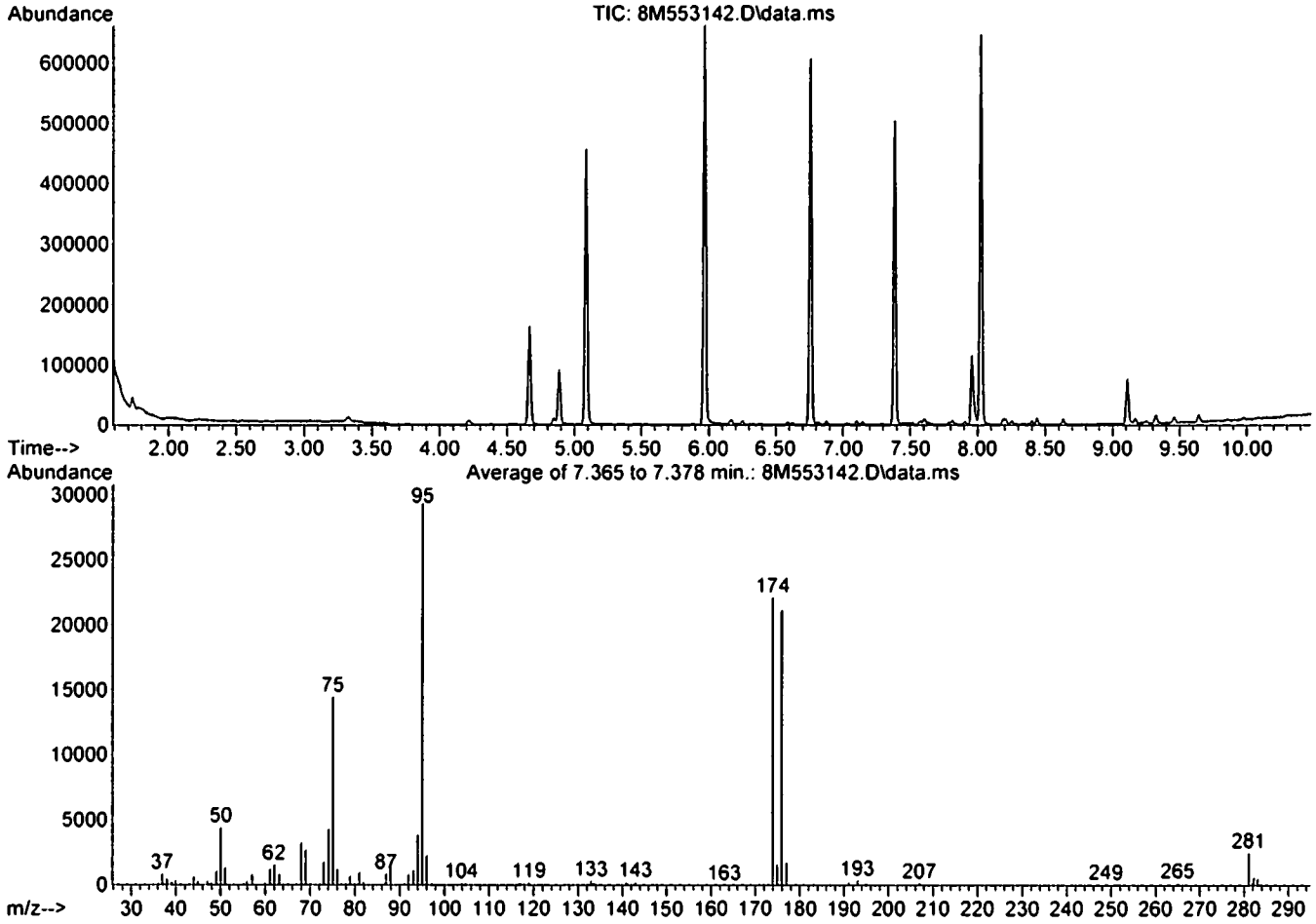
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.2	4461	PASS
75	95	30	60	49.4	14517	PASS
95	95	100	100	100.0	29373	PASS
96	95	5	9	7.8	2287	PASS
173	174	0.00	2	0.5	105	PASS
174	95	50	100	75.5	22173	PASS
175	174	5	9	7.3	1611	PASS
176	174	95	101	95.6	21199	PASS
177	176	5	9	8.3	1770	PASS

Data File	Sample Number	Analysis Date:
8M553143.D	STD	12/15/21 10:27
8M553144.D	50 PPB	12/15/21 10:47
8M553145.D	CAL @ 50 PPB	12/15/21 11:07
8M553146.D	BLK	12/15/21 11:27
8M553147.D	BLK	12/15/21 11:47
8M553148.D	BLK	12/15/21 12:08
8M553149.D	DAILY BLANK	12/15/21 12:28
8M553150.D	BLK	12/15/21 12:48
8M553151.D	BLK	12/15/21 13:08
8M553152.D	AD27903-002	12/15/21 13:28
8M553153.D	AD27822-001	12/15/21 13:48
8M553154.D	AD27848-011	12/15/21 14:09
8M553155.D	AD27848-012	12/15/21 14:29
8M553156.D	AD27848-025	12/15/21 14:49
8M553157.D	AD27848-026	12/15/21 15:09
8M553158.D	AD27823-002	12/15/21 15:30
8M553159.D	AD27862-001	12/15/21 15:50
8M553160.D	AD27849-014	12/15/21 16:10
8M553161.D	AD27887-001	12/15/21 16:30
8M553162.D	AD27738-001	12/15/21 16:50
8M553163.D	MBS98234	12/15/21 17:10
8M553164.D	AD27849-014(MS)	12/15/21 17:31
8M553165.D	AD27849-014(MSD	12/15/21 17:51
8M553169.D	AD27862-001	12/15/21 19:12
8M553170.D	AD27810-001	12/15/21 19:32
8M553171.D	AD27810-002	12/15/21 19:52
8M553172.D	AD27878-003	12/15/21 20:12
8M553173.D	AD27878-004	12/15/21 20:33
8M553174.D	AD27878-005	12/15/21 20:53
8M553175.D	AD27878-007	12/15/21 21:13
8M553176.D	AD27878-009	12/15/21 21:33

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-15-21\
Data File : 8M553142.D
Acq On : 15 Dec 2021 10:07
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_8\MethodQt\8M_S1206.M
Title : @GCMS_8,ug,624,8260
Last Update : Tue Dec 07 00:08:47 2021



Spectrum Information: Average of 7.365 to 7.378 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	4461	PASS
75	95	30	60	49.4	14517	PASS
95	95	100	100	100.0	29373	PASS
96	95	5	9	7.8	2287	PASS
173	174	0.00	2	0.5	105	PASS
174	95	50	100	75.5	22173	PASS
175	174	5	9	7.3	1611	PASS
176	174	95	101	95.6	21199	PASS
177	176	5	9	8.3	1770	PASS

1121003 0035

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_8

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4375	0.4360	0.3820	0.4201	0.4281	0.4910	0.4636	----	----	0.437	1.67	0.999	0.999	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.3577	0.4105	0.3355	0.3644	0.3776	0.4521	0.4253	----	----	0.389	1.66	0.998	0.998	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.3072	0.3404	0.3810	0.2933	0.3004	0.3605	0.3251	----	----	0.330	1.82	0.997	0.998	9.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1700	0.2107	0.1686	0.1704	0.2177	0.2552	0.2539	----	----	0.207	2.20	0.999	0.999	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.4498	0.4435	0.4228	0.3898	0.3833	0.4260	0.3654	----	----	0.412	1.92	0.994	0.998	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Qua	0.1869	0.1563	0.3396	0.1766	0.1785	0.2060	0.1880	----	----	0.205	2.29	0.998	0.999	30	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.6770	0.7111	0.5526	0.6468	0.6501	0.7529	0.6924	----	----	0.669	2.49	0.998	0.999	9.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1342	0.1456	0.1433	0.1245	0.1219	0.1335	0.1250	----	----	0.133	2.71	0.999	0.999	7.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.4533	0.4273	0.4235	0.4051	0.4066	0.4615	0.4140	----	----	0.427	2.75	0.997	0.999	5.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.3027	0.3163	0.2837	0.2878	0.2820	0.3290	0.2948	----	----	0.299	2.91	0.997	0.998	5.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.2399	0.2512	0.2156	0.2134	0.2188	0.2525	0.2367	----	----	0.233	3.31	0.998	0.999	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0289	0.0327	0.0274	0.0230	0.0202	0.0220	0.0186	----	----	0.0247	2.81	0.993	0.998	21		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Qua	0.0415	0.0564	0.0362	0.0332	0.0342	0.0372	0.0341	----	----	0.0390	3.49	0.998	0.999	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Avg	0.0485	0.0616	0.0370	0.0406	0.0377	0.0465	0.0432	----	----	0.0451	3.06	0.998	0.998	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0432	0.0475	0.0589	0.0337	0.0300	0.0348	0.0304	----	----	0.0398	2.93	0.995	0.998	27	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.8636	0.8639	0.7960	0.8158	0.8396	0.9629	0.8567	----	----	0.857	3.12	0.996	0.998	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0274	0.0301	0.0286	0.0250	0.0244	0.0269	0.0249	----	----	0.0268	2.71	0.998	0.999	8.0		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.2991	0.3336	0.2889	0.2942	0.3060	0.3572	0.3241	----	----	0.315	3.77	0.997	0.998	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Qua	0.2375	0.2598	0.2113	0.2273	0.3034	0.3691	0.3668	----	----	0.282	3.93	0.998	0.998	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.7641	0.8067	0.7089	0.7043	0.6163	0.6588	0.5654	----	----	0.689	2.92	0.994	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0715	0.0809	0.0585	0.0611	0.0741	0.0877	0.0861	----	----	0.0743	3.20	0.999	0.999	15	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.0064	0.0059	0.0066	0.0064	0.0053	0.0062	0.0058	0.0087	----	0.00644	3.51	0.998	0.999	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Qua	0.1613	0.0844	0.0707	0.2132	0.2917	0.3992	0.3976	----	----	0.231	3.89	0.997	0.997	59	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.2887	0.2982	0.2982	0.2812	0.2844	0.3262	0.2964	----	----	0.296	3.54	0.997	0.999	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.0064	0.0066	0.0062	0.0046	0.0060	0.0059	0.0060	----	----	0.00600	4.21	0.999	0.999	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.3501	0.3713	0.2811	0.3297	0.3309	0.3759	0.3487	----	----	0.341	4.35	0.998	0.999	9.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1449	0.1396	0.1315	0.1446	0.1495	0.1761	0.1589	----	----	0.149	4.52	0.997	0.998	9.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.0095	0.0128	0.0075	0.0102	0.0095	0.0122	0.0119	----	----	0.0106	4.35	0.998	0.998	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.0820	0.0859	0.0973	0.0644	0.0722	0.0883	0.0969	----	----	0.0839	4.37	0.996	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0013	0.0014	0.0013	0.0012	0.0013	0.0015	0.0013	----	----	0.00140	5.49	0.996	0.998	7.5		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.4304	0.4433	0.3805	0.4241	0.4265	0.4958	0.4432	----	----	0.435	4.80	0.996	0.998	7.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.4840	0.4783	0.4364	0.4563	0.4601	0.5339	0.4836	----	----	0.476	4.56	0.997	0.998	6.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2919	0.2924	0.2827	0.2894	0.2895	0.2996	0.2969	0.2782	0.2870	0.290	4.67	-1	-1	2.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.3877	0.3683	0.3038	0.3767	0.3911	0.4584	0.4128	----	----	0.386	4.75	0.997	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1161	0.1218	0.1120	0.1161	0.1192	0.1186	0.1096	0.1099	0.1175	0.116	4.89	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2827	0.3045	0.2574	0.2640	0.2718	0.3197	0.2915	----	----	0.285	4.93	0.997	0.998	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Qua	0.0467	0.0177	0.0257	0.0272	0.0543	0.0429	0.0431	----	----	0.0369	4.37	0.995	0.995	36	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Qua	0.1424	0.1265	0.0642	0.1875	0.3072	0.4461	0.4587	----	----	0.248	4.70	0.995	0.997	64	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.3470	0.3180	0.2543	0.3454	0.3856	0.4712	0.4415	----	----	0.366	4.81	0.998	0.998	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.1502	0.1743	0.1658	0.1401	0.1858	0.2265	0.2359	----	----	0.183	3.93	0.998	0.999	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.3128	0.3258	0.2431	0.2958	0.3012	0.3444	0.3169	----	----	0.306	5.57	0.998	0.999	10	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121003 0035

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.4657	0.4697	0.3933	0.4645	0.4911	0.5761	0.5224	----	----	0.483	5.42	0.997	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1167	0.1192	0.1072	0.1012	0.0945	0.0875	0.0710	----	----	0.0997	5.49	0.987	1.00	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.2006	0.2132	0.1745	0.2014	0.2027	0.2307	0.2070	----	----	0.204	5.42	0.997	0.999	8.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.3504	0.3618	0.3547	0.3413	0.3464	0.4007	0.3670	----	----	0.360	5.29	0.998	0.999	5.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.0185	1.0159	0.8735	0.9708	0.9680	1.1024	0.9850	0.9796	----	0.989	4.93	0.997	0.999	6.5	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Qua	0.0092	0.0188	0.0421	0.0053	0.0048	0.0051	0.0050	----	----	0.0130	4.98	0.999	0.999	110		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Qua	0.0492	0.0457	0.0348	0.0352	0.0585	0.0992	0.1132	----	----	0.0623	4.93	0.990	0.997	50	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.1152	0.1095	0.1412	0.1022	0.1093	0.1254	0.1101	----	----	0.116	5.46	0.995	0.998	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.2520	0.2502	0.2345	0.2474	0.2497	0.2849	0.2629	----	----	0.255	6.44	0.998	0.999	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0386	0.0221	0.0050	0.0528	0.0597	0.0659	0.0613	----	----	0.0437	5.75	0.998	0.999	52		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Qua	0.1771	0.1107	0.0768	0.2136	0.2674	0.3254	0.3011	----	----	0.210	5.81	0.997	0.998	45	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Qua	0.0948	0.0667	0.0388	0.1264	0.1816	0.2385	0.2384	----	----	0.141	6.10	0.997	0.998	57	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.1221	0.1201	0.1141	0.1196	0.1194	0.1397	0.1307	----	----	0.124	6.13	0.998	0.999	7.0	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1945	0.2048	0.1726	0.1823	0.1756	0.1908	0.1702	----	----	0.184	6.21	0.997	0.999	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Qua	0.1038	0.1194	0.1369	0.0816	0.0728	0.0662	0.0591	0.1504	0.1052	0.0995	6.52	0.996	1.00	32	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.2613	0.2451	0.2296	0.2615	0.2585	0.2829	0.2495	----	----	0.256	6.31	0.996	0.999	6.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.0893	0.1021	0.0987	0.0811	0.0853	0.1027	0.0958	----	----	0.0936	5.88	0.998	0.998	9.0	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0619	0.0685	0.0680	0.0485	0.0544	0.0672	0.0653	----	----	0.0620	6.33	0.998	0.998	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.3504	0.3545	0.3011	0.3325	0.3475	0.3944	0.3533	----	----	0.348	6.31	0.997	0.999	8.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.2338	1.2140	1.2692	1.2341	1.2427	1.2218	1.2064	1.2222	1.2202	1.23	5.97	-1	-1	1.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7808	0.7714	0.8085	0.7846	0.7960	0.8844	0.7918	0.8726	----	0.811	6.01	0.997	0.999	5.3	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2790	0.2854	0.2696	0.2861	0.2813	0.3213	0.2970	----	----	0.289	6.81	0.998	0.999	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.8434	0.8560	0.8156	0.8093	0.8276	0.9135	0.8323	----	----	0.843	6.77	0.998	0.999	4.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.3049	0.2787	0.3014	0.3084	0.3485	0.3160	0.4625	----	----	0.332	7.03	0.976	0.998	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.2122	0.2246	0.3450	0.2186	0.2663	0.2335	0.2320	----	----	0.248	7.14	0.999	0.999	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.2680	0.2660	0.2672	0.2531	0.2642	0.2263	0.2806	----	----	0.261	7.22	0.991	0.998	6.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.7785	0.8403	0.8616	0.8012	0.8147	0.6902	0.7582	0.6592	----	0.776	6.82	0.998	0.998	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.3944	0.3624	0.4213	0.3619	0.3560	0.2933	0.3827	----	----	0.367	7.44	0.986	0.997	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7456	0.7338	0.7313	0.7461	0.7646	0.5761	0.7600	0.7338	0.7336	0.725	7.38	-1	-1	7.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.4751	1.3561	1.1975	1.5059	1.5454	1.2687	1.6109	----	----	1.42	7.10	0.989	0.997	11	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	1.0697	1.0091	0.9571	1.0710	1.1032	0.9095	1.1518	1.0741	1.1690	1.06	6.88	0.990	0.997	8.1	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0015	0.9993	0.8820	1.0029	1.0099	0.8386	1.1052	0.9420	----	0.973	7.10	0.987	0.997	8.6	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1753	0.1729	0.1204	0.1581	0.1848	0.1692	0.1818	----	----	0.166	7.46	0.999	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.2433	1.1892	1.1942	1.1965	1.2021	1.2928	0.9281	----	----	1.18	7.99	0.968	0.997	9.9	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.2016	1.1942	1.1711	1.1424	1.1466	1.2538	1.2194	----	----	1.19	8.04	1.00	1.00	3.4	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.0453	0.9923	0.9770	1.0215	1.0044	1.0490	0.8605	----	----	0.993	8.26	0.990	0.999	6.5	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.9385	2.7628	2.5219	2.9635	3.0760	2.5856	2.8987	2.5047	----	2.78	7.29	0.997	0.998	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0031	0.0109	0.0181	0.0027	0.0018	0.0018	0.0021	----	----	0.00582	7.35	0.990	0.999	110		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.9993	0.9241	0.8642	1.0091	1.0625	0.9342	1.2679	----	----	1.01	7.46	0.984	0.998	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.4282	0.3887	0.4587	0.3758	0.3808	0.3334	0.4265	----	----	0.399	7.47	0.988	0.998	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.7322	1.6716	1.8141	1.6908	1.7114	1.6091	1.4798	----	----	1.67	7.58	0.998	1.00	6.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.3
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121003 0037

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M552670.D	CAL @ 20 PPB	12/06/21 21:58	2	8M552668.D	CAL @ 5 PPB	12/06/21 21:17
3	8M552669.D	CAL @ 2 PPB	12/06/21 21:38	4	8M552671.D	CAL @ 50 PPB	12/06/21 22:18
5	8M552672.D	CAL @ 100 PPB	12/06/21 22:38	6	8M552673.D	CAL @ 250 PPB	12/06/21 22:58
7	8M552674.D	CAL @ 500 PPB	12/06/21 23:18	8	8M552667.D	CAL @ 1 PPB	12/06/21 20:57
9	8M552666.D	CAL @ 0.5 PPB	12/06/21 20:37				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.6880	2.4558	2.3274	2.7321	2.8171	2.6022	2.4231	-----	-----	2.58	7.57	0.998	1.00	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.5935	1.5367	1.6281	1.5249	1.5142	1.6588	1.4868	-----	-----	1.56	7.64	0.997	0.999	4.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	3.3761	3.1856	3.0796	3.4125	3.4623	2.9792	3.2974	3.2968	-----	3.26	7.51	0.998	0.999	5.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3641	1.3431	1.3553	1.3401	1.3317	1.1336	1.4261	-----	-----	1.33	7.48	0.990	0.998	6.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.3.5-Trimethylbenzen	1	0	Avg	2.2982	2.1334	1.9935	2.3419	2.2939	2.3641	2.2269	2.1137	-----	2.22	7.60	0.999	1.00	5.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Qua	0.3563	0.3315	0.5739	0.3534	0.3495	0.3428	0.3099	0.4867	-----	0.388	7.60	0.997	1.00	24	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	2.5127	2.4309	2.2947	2.5213	2.6027	2.9295	1.9730	2.4274	-----	2.46	7.79	0.956	0.994	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1.2.4-Trimethylbenzen	1	0	Avg	2.1942	1.9985	1.8951	2.2169	2.2632	2.4791	1.5633	2.0680	-----	2.08	7.81	0.938	0.993	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	3.2916	2.9347	2.6921	3.2592	3.3240	3.6853	2.0574	3.1892	-----	3.05	7.91	0.898	0.989	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	2.8034	3.4082	4.2268	2.7121	2.7942	3.0493	-----	7.1902	-----	3.74	7.98	0.998	1.00	43		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
n-Butylbenzene	1	0	Avg	2.7917	2.5688	2.5579	2.8713	2.9790	2.8801	2.0366	2.9114	-----	2.70	8.20	0.965	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.3859	1.2693	1.4109	1.3974	1.4976	1.6475	1.2122	-----	-----	1.40	8.19	0.973	0.996	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2.4.5-Tetramethylbe	1	0	Qua	1.3884	1.2014	1.1364	1.6061	1.8339	2.2219	-----	-----	-----	1.56	8.63	0.994	1.00	26		20.00	5.00	2.00	50.00	100.0	250.0			
1.2-Dibromo-3-Chloro	1	0	Avg	0.0729	0.0751	0.0655	0.0664	0.0687	0.0832	0.0399	-----	-----	0.0674	8.69	0.823	0.976	20	0.05 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0015	0.0055	0.0129	0.0010	0.0038	0.0068	0.0087	-----	-----	0.00578	9.11	0.981	0.997	73		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.5024	0.4909	0.5415	0.5025	0.5221	0.5011	0.5794	-----	-----	0.520	9.25	0.996	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2.4-Trichlorobenzen	1	0	Avg	0.5000	0.4945	0.4535	0.5316	0.5843	0.5720	0.5085	-----	-----	0.521	9.17	0.996	1.00	8.8	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2.3-Trichlorobenzen	1	0	Avg	0.3992	0.3912	0.4014	0.4164	0.4602	0.4401	0.4366	-----	-----	0.421	9.46	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.6278	0.5799	1.1293	0.7232	0.8646	0.9070	0.9204	0.8519	-----	0.826	9.32	1.00	1.00	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 16.3
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: 8M553145.D Instrument: GCMS 8

Cont Calibration Date/Time 12/15/2021 11:07:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	27.79	50	20	0.1	0.437	0.243	44.42	C1
Dichlorodifluoromethane	1	0		1.66	10.12	50	20	0.1	0.389	0.079	79.76	C1
Chloromethane	1	0		1.82	23.77	50	20	0.1	0.330	0.157	52.46	C1
Bromomethane	1	0		2.20	40.86	50	20	0.1	0.207	0.169	18.28	
Vinyl Chloride	1	0		1.92	29.30	50	20	0.1	0.412	0.241	41.40	C1
Chloroethane	1	0		2.28	31.63	50	20	0.1	0.205	0.130	36.73	C1
Trichlorofluoromethane	1	0		2.49	30.87	50	20	0.1	0.669	0.413	38.26	C1
Ethyl ether	1	0		2.71	40.04	50	20	0.5	0.133	0.106	19.92	
Furan	1	0		2.75	33.95	50	20	0.5	0.427	0.290	32.10	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.91	35.05	50	20	0.1	0.300	0.210	29.89	C1
Methylene Chloride	1	0		3.31	45.32	50	20	0.1	0.233	0.211	9.36	
Acrolein	1	0		2.81	152.92	250	20		0.025	0.015	38.83	C1
Acrylonitrile	1	0		3.50	41.20	50	20		0.039	0.031	17.59	
Iodomethane	1	0		3.06	47.55	50	20		0.045	0.043	4.90	
Acetone	1	0		2.94	135.62	250	20	0.1	0.040	0.020	45.75	C1
Carbon Disulfide	1	0		3.12	38.48	50	20	0.1	0.857	0.659	23.04	C1
t-Butyl Alcohol	1	0		2.71	194.52	250	20		0.027	0.021	22.19	C1
n-Hexane	1	0		3.76	49.42	50	20		0.315	0.311	1.16	
Di-isopropyl-ether	1	0		3.92	41.97	50	20		0.282	0.282	16.07	
1,1-Dichloroethene	1	0		2.92	28.50	50	20	0.1	0.689	0.393	42.99	C1
Methyl Acetate	1	0		3.20	42.40	50	20	0.1	0.074	0.063	15.19	
Methyl-t-butyl ether	1	0		3.50	41.31	50	20	0.1	0.006	0.005	17.38	
1,1-Dichloroethane	1	0		3.89	46.00	50	20	0.2	0.231	0.320	8.01	
trans-1,2-Dichloroethene	1	0		3.54	51.79	50	20	0.1	0.296	0.307	3.58	
Ethyl-t-butyl ether	1	0		4.21	57.81	50	20	0.5	0.006	0.007	15.62	
cis-1,2-Dichloroethene	1	0		4.35	51.72	50	20	0.1	0.341	0.353	3.45	
Bromochloromethane	1	0		4.52	44.80	50	20		0.149	0.134	10.40	
2,2-Dichloropropane	1	0		4.35	41.53	50	20		0.011	0.009	16.93	
Ethyl acetate	1	0		4.38	42.84	50	20		0.084	0.072	14.32	
1,4-Dioxane	1	0		5.49	2477.22	2500	20		0.001	0.001	0.91	
1,1-Dichloropropene	1	0		4.80	50.10	50	20		0.435	0.436	0.20	
Chloroform	1	0		4.56	52.65	50	20	0.2	0.476	0.501	5.30	
Dibromofluoromethane	1	0	S	4.67	26.14	75	**		0.290	0.252	12.88	
Cyclohexane	1	0		4.75	49.57	50	20	0.1	0.386	0.382	0.86	
1,2-Dichloroethane-d4	1	0	S	4.89	22.90	75	**		0.116	0.088	23.67	
1,2-Dichloroethane	1	0		4.93	43.68	50	20	0.1	0.285	0.249	12.65	
2-Butanone	1	0		4.37	31.58	50	20	0.1	0.037	0.028	36.83	C1
1,1,1-Trichloroethane	1	0		4.70	41.28	50	20	0.1	0.248	0.304	17.44	
Carbon Tetrachloride	1	0		4.81	48.98	50	20	0.1	0.366	0.359	2.04	
Vinyl Acetate	1	0		3.92	42.08	50	20		0.183	0.154	15.84	
Bromodichloromethane	1	0		5.57	53.34	50	20	0.2	0.306	0.326	6.69	
Methylcyclohexane	1	0		5.42	54.43	50	20	0.1	0.483	0.526	8.86	
Dibromomethane	1	0		5.49	56.89	50	20		0.100	0.113	13.77	
1,2-Dichloropropane	1	0		5.42	56.70	50	20	0.1	0.204	0.232	13.39	
Trichloroethene	1	0		5.29	51.93	50	20	0.2	0.360	0.374	3.86	
Benzene	1	0		4.93	56.96	50	20	0.5	0.989	1.127	13.92	
tert-Amyl methyl ether	1	0		4.97	58.18	50	20		0.013	0.006	16.36	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.93	40.31	50	20	0.5	0.062	0.058	19.38	
Methyl methacrylate	1	0		5.46	40.46	50	20	0.5	0.116	0.094	19.09	
Dibromochloromethane	1	0		6.44	48.61	50	20	0.1	0.255	0.247	2.77	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M553145.D **Instrument:** GCMS 8

Cont Calibration Date/Time 12/15/2021 11:07:00 **Method:** EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.75	40.89	50	20		0.044	0.053	18.22	
cis-1,3-Dichloropropene	1	0		5.81	47.78	50	20	0.2	0.210	0.295	4.44	
trans-1,3-Dichloropropene	1	0		6.10	43.49	50	20	0.1	0.141	0.182	13.02	
Ethyl methacrylate	1	0		6.13	43.31	50	20	0.5	0.124	0.107	13.37	
1,1,2-Trichloroethane	1	0		6.21	51.38	50	20	0.1	0.184	0.190	2.76	
1,2-Dibromoethane	1	0		6.51	61.93	50	20	0.1	0.100	0.091	23.86	C1
1,3-Dichloropropane	1	0		6.31	56.17	50	20		0.256	0.287	12.33	
4-Methyl-2-Pentanone	1	0		5.88	41.02	50	20	0.1	0.094	0.077	17.96	
2-Hexanone	1	0		6.33	40.34	50	20	0.1	0.062	0.050	19.32	
Tetrachloroethene	1	0		6.31	47.07	50	20	0.2	0.348	0.327	5.86	
Toluene-d8	1	0	S	5.97	28.62	75	**		1.229	1.173	4.59	
Toluene	1	0		6.01	50.54	50	20	0.4	0.811	0.820	1.08	
1,1,1,2-Tetrachloroethane	1	0		6.81	51.99	50	20		0.289	0.300	3.98	
Chlorobenzene	1	0		6.77	52.32	50	20	0.5	0.843	0.882	4.63	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.03	59.40	50	20	0.5	0.332	0.394	18.80	
n-Amyl acetate	1	0		7.14	55.63	50	20	0.5	0.248	0.275	11.27	
Bromoform	1	0		7.22	48.99	50	20	0.1	0.261	0.256	2.02	
Ethylbenzene	1	0		6.82	54.07	50	20	0.1	0.776	0.839	8.14	
1,1,2,2-Tetrachloroethane	1	0		7.44	49.46	50	20	0.1	0.367	0.363	1.08	
Bromofluorobenzene	1	0	S	7.38	30.91	75	**		0.725	0.747	3.03	
Styrene	1	0		7.10	58.54	50	20	0.3	1.423	1.666	17.08	
m&p-Xylenes	1	0		6.88	107.46	100	20	0.1	1.057	1.136	7.46	
o-Xylene	1	0		7.10	55.58	50	20	0.3	0.973	1.081	11.17	
trans-1,4-Dichloro-2-butene	1	0		7.46	38.71	50	20		0.166	0.129	22.59	C1
1,3-Dichlorobenzene	1	0		7.99	53.49	50	20	0.6	1.178	1.260	6.98	
1,4-Dichlorobenzene	1	0		8.04	51.82	50	20	0.5	1.190	1.233	3.64	
1,2-Dichlorobenzene	1	0		8.25	53.24	50	20	0.4	0.993	1.057	6.47	
Isopropylbenzene	1	0		7.29	52.69	50	20	0.1	2.782	2.931	5.38	
Cyclohexanone	1	0		7.36	311.78	250	20		0.006	0.002	24.71	C1
Camphene	1	0		7.46	46.43	50	20		1.009	0.937	7.15	
1,2,3-Trichloropropane	1	0		7.47	46.24	50	20		0.399	0.369	7.53	
2-Chlorotoluene	1	0		7.58	51.91	50	20		1.673	1.737	3.81	
p-Ethyltoluene	1	0		7.57	55.68	50	20		2.578	2.871	11.37	
4-Chlorotoluene	1	0		7.64	52.01	50	20		1.563	1.626	4.01	
n-Propylbenzene	1	0		7.51	51.76	50	20		3.261	3.376	3.51	
Bromobenzene	1	0		7.48	44.06	50	20		1.328	1.170	11.88	
1,3,5-Trimethylbenzene	1	0		7.60	50.79	50	20		2.221	2.256	1.57	
Butyl methacrylate	1	0		7.60	44.01	50	20	0.5	0.388	0.321	11.98	
t-Butylbenzene	1	0		7.79	50.07	50	20		2.462	2.465	0.13	
1,2,4-Trimethylbenzene	1	0		7.81	54.75	50	20		2.085	2.283	9.51	
sec-Butylbenzene	1	0		7.91	52.08	50	20		3.054	3.181	4.16	
4-Isopropyltoluene	1	0		7.98	50.57	50	20		3.741	2.754	1.15	
n-Butylbenzene	1	0		8.21	52.35	50	20		2.700	2.826	4.69	
p-Diethylbenzene	1	0		8.19	54.85	50	20		1.403	1.539	9.70	
1,2,4,5-Tetramethylbenzene	1	0		8.63	58.87	50	20		1.565	1.986	17.74	
1,2-Dibromo-3-Chloropropane	1	0		8.69	46.19	50	20	0.05	0.067	0.062	7.62	
Camphor	1	0		9.11	1631.12	500	20		0.006	0.018	226.22	C1
Hexachlorobutadiene	1	0		9.25	41.48	50	20		0.520	0.431	17.04	
1,2,4-Trichlorobenzene	1	0		9.17	61.25	50	20	0.2	0.521	0.638	22.49	C1
1,2,3-Trichlorobenzene	1	0		9.46	59.16	50	20		0.421	0.498	18.33	
Naphthalene	1	0		9.32	57.37	50	20		0.826	0.996	14.74	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

1121003 0040

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M552670.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 21:58

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	258559	5.09	218739	6.76	120646	8.02								
Eval File Area Limit:	129280-517118		109370-437478		60323-241292									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									
Data File Sample														
8M552666.D CAL @ 0.5 PPB	247232	5.09	209128	6.76	107268	8.02								
8M552667.D CAL @ 1 PPB	277907	5.09	231492	6.76	123463	8.02								
8M552668.D CAL @ 5 PPB	239805	5.09	202851	6.76	112416	8.02								
8M552669.D CAL @ 2 PPB	281604	5.09	230297	6.76	121898	8.02								
8M552670.D CAL @ 20 PPB	258559	5.09	218739	6.76	120646	8.02								
8M552671.D CAL @ 50 PPB	278738	5.09	235354	6.76	131125	8.02								
8M552672.D CAL @ 100 PPB	281452	5.09	237589	6.76	133001	8.02								
8M552673.D CAL @ 250 PPB	250171	5.09	217045	6.76	161858	8.02								
8M552674.D CAL @ 500 PPB	283417	5.09	248469	6.76	158202	8.02								
8M552675.D BLK	360944	5.09	296132	6.76	153651	8.02								
8M552676.D BLK	327211	5.09	274572	6.76	143167	8.02								
8M552677.D BLK	328460	5.09	262987	6.76	136634	8.02								
8M552678.D BLK	305557	5.09	252574	6.76	130979	8.02								
8M552679.D ICV	304622	5.09	253401	6.76	143455	8.02								
8M552680.D BLK	82497A	5.04	116301	6.74	105391	8.02								
8M552681.D STD	289843	5.07	234298	6.75	124872	8.02								
8M552682.D BLK	310732	5.09	259116	6.76	137405	8.02								
8M552683.D BLK	323643	5.09	267090	6.76	142644	8.02								
8M552684.D DAILY BLANK	299956	5.09	248009	6.76	130013	8.02								
8M552685.D AD27723-001	308323	5.09	257376	6.76	133377	8.02								
8M552686.D AD27667-001	381632	5.09	318857	6.76	169752	8.02								
8M552687.D AD27667-002	378468	5.09	316245	6.76	161912	8.02								
8M552688.D AD27667-003	345311	5.09	298426	6.76	151441	8.02								
8M552689.D AD27723-001(MS)	367898	5.09	306510	6.76	175556	8.02								
8M552690.D AD27723-001(MSD)	398909	5.09	341042	6.76	188039	8.02								
8M552691.D MBS98151	285333	5.09	243030	6.76	134143	8.02								
8M552692.D BLK	331326	5.09	270530	6.76	142765	8.02								
8M552693.D AD27723-002	373681	5.09	316467	6.76	163702	8.02								
8M552694.D AD27723-003	385004	5.09	333008	6.76	170101	8.02								
8M552695.D AD27723-004	334171	5.09	284745	6.76	149466	8.02								
8M552696.D AD27723-005	369556	5.09	319286	6.76	169602	8.02								
8M552697.D AD27723-006	336479	5.09	287107	6.76	195412	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1121003 0041

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M552670.D Method: EPA 8260D

Analysis Date/Time: 12/06/21 21:58

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	258559	5.09	218739	6.76	120646	8.02								
Eval File Area Limit:	129280-517118		109370-437478		60323-241292									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									
Data File Sample														
8M552698.D AD27723-007	393694	5.09	327309	6.76	173197	8.02								
8M552699.D AD27723-008	317472	5.09	270160	6.76	139834	8.02								
8M552700.D AD27710-018(5X)	327600	5.09	273099	6.76	122439	8.02								
8M552701.D STD	278049	5.09	244390	6.76	131288	8.02								
8M552702.D STD	415012	5.09	355382	6.76	190720	8.02								
8M552703.D BLK	553523 A	5.09	463464 A	6.76	241002	8.02								
8M552704.D BLK	504807	5.09	411506	6.76	210772	8.02								
8M552705.D BLK	394569	5.09	425255	6.76	178968	8.02								
8M552706.D BLK	399689	5.09	325495	6.76	197919	8.02								
8M552707.D BLK	376498	5.09	315483	6.76	163729	8.02								
8M552708.D BLK	57290 A	5.06	75482 A	6.75	60056 A	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

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Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

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Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553145.D Method: EPA 8260D

Analysis Date/Time: 12/15/21 11:07

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	294270	5.09	273847	6.76	150047	8.02								
Eval File Area Limit:	147135-588540		136924-547694		75024-300094									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									
Data File Sample														
8M553143.D STD	316279	5.09	289550	6.76	157949	8.02								
8M553144.D 50 PPB	297498	5.09	274546	6.76	150677	8.02								
8M553146.D BLK	286309	5.09	270583	6.76	147662	8.02								
8M553147.D BLK	311248	5.09	280950	6.76	149710	8.02								
8M553148.D BLK	302117	5.09	262047	6.76	136052	8.02								
8M553149.D DAILY BLANK	294932	5.09	278184	6.76	147050	8.02								
8M553150.D BLK	316202	5.09	287723	6.76	155186	8.02								
8M553151.D BLK	282808	5.09	262074	6.76	141999	8.02								
8M553152.D AD27903-002	259266	5.09	242621	6.76	129695	8.02								
8M553153.D AD27822-001	302169	5.09	267154	6.76	128796	8.02								
8M553154.D AD27848-011	318983	5.09	300503	6.76	160466	8.02								
8M553155.D AD27848-012	255513	5.09	242516	6.76	130835	8.02								
8M553156.D AD27848-025	299185	5.09	283042	6.76	152135	8.02								
8M553157.D AD27848-026	276906	5.09	259709	6.76	143272	8.02								
8M553158.D AD27823-002	300685	5.09	278570	6.76	130929	8.02								
8M553159.D AD27862-001	276583	5.09	257851	6.76	123816	8.02								
8M553160.D AD27849-014	328175	5.08	310484	6.76	163522	8.02								
8M553161.D AD27887-001	290010	5.09	251291	6.76	106693	8.02								
8M553162.D AD27738-001	379217	5.09	366466	6.76	203718	8.02								
8M553163.D MBS98234	288643	5.09	277173	6.76	150719	8.02								
8M553164.D AD27849-014(MS)	289057	5.09	265841	6.76	140333	8.03								
8M553165.D AD27849-014(MSD)	265167	5.09	249848	6.76	132081	8.02								
8M553169.D AD27862-001	232525	5.09	211972	6.76	87476	8.02								
8M553170.D AD27810-001	128142 A	5.09	125210 A	6.76	67272 A	8.02								
8M553171.D AD27810-002	258394	5.09	248706	6.76	149066	8.02								
8M553172.D AD27878-003	240542	5.09	229665	6.76	118177	8.02								
8M553173.D AD27878-004	264999	5.09	256303	6.76	141532	8.02								
8M553174.D AD27878-005	0 A	0.00 R	0 A	0.00 R	0 A	0.00 R								
8M553175.D AD27878-007	106474 A	5.09	106527 A	6.76	59448 A	8.02								
8M553176.D AD27878-009	258076	5.09	237418	6.76	114608	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27822-001(3X)
Client Id: SB-014SS
Data File: 9M110334.D
Analysis Date: 12/22/21 16:31
Date Rec/Extracted: 12/10/21-12/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 3
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.11	U	**50-32-8**	**Benzo[a]pyrene**	**0.11**	**4.4**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.11	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.11**	**5.6**
122-66-7	1,2-Diphenylhydrazine	0.11	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.11**	**2.9**
123-91-1	1,4-Dioxane	0.056	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.11**	**1.8**
58-90-2	2,3,4,6-Tetrachlorophenol	0.11	U	100-51-6	Benzyl alcohol	0.11	U
95-95-4	2,4,5-Trichlorophenol	0.11	U	111-91-1	bis(2-Chloroethoxy)methan	0.11	U
88-06-2	2,4,6-Trichlorophenol	0.11	U	111-44-4	bis(2-Chloroethyl)ether	0.028	U
120-83-2	2,4-Dichlorophenol	0.042	U	108-60-1	bis(2-chloroisopropyl)ether	0.11	U
105-67-9	2,4-Dimethylphenol	0.054	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.11	U
51-28-5	2,4-Dinitrophenol	0.56	U	85-68-7	Butylbenzylphthalate	0.11	U
121-14-2	2,4-Dinitrotoluene	0.11	U	105-60-2	Caprolactam	0.11	U
606-20-2	2,6-Dinitrotoluene	0.11	U	**86-74-8**	**Carbazole**	**0.11**	**1.1**
91-58-7	2-Chloronaphthalene	0.11	U	**218-01-9**	**Chrysene**	**0.11**	**3.9**
95-57-8	2-Chlorophenol	0.11	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.11**	**0.64**
91-57-6	**2-Methylnaphthalene**	**0.11**	**0.32**	**132-64-9**	**Dibenzofuran**	**0.028**	**0.95**
95-48-7	2-Methylphenol	0.032	U	84-66-2	Diethylphthalate	0.11	U
88-74-4	2-Nitroaniline	0.11	U	131-11-3	Dimethylphthalate	0.11	U
88-75-5	2-Nitrophenol	0.11	U	84-74-2	Di-n-butylphthalate	0.13	U
106-44-5	3&4-Methylphenol	0.032	U	117-84-0	Di-n-octylphthalate	0.11	U
91-94-1	3,3'-Dichlorobenzidine	0.11	U	**206-44-0**	**Fluoranthene**	**0.11**	**10**
99-09-2	3-Nitroaniline	0.11	U	**86-73-7**	**Fluorene**	**0.11**	**0.98**
534-52-1	4,6-Dinitro-2-methylphenol	0.56	U	118-74-1	Hexachlorobenzene	0.11	U
101-55-3	4-Bromophenyl-phenylether	0.11	U	87-68-3	Hexachlorobutadiene	0.11	U
59-50-7	4-Chloro-3-methylphenol	0.11	U	77-47-4	Hexachlorocyclopentadiene	0.36	U
106-47-8	4-Chloroaniline	0.049	U	67-72-1	Hexachloroethane	0.11	U
7005-72-3	4-Chlorophenyl-phenylether	0.11	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.11**	**2.6**
100-01-6	4-Nitroaniline	0.11	U	78-59-1	Isophorone	0.11	U
100-02-7	4-Nitrophenol	0.11	U	**91-20-3**	**Naphthalene**	**0.032**	**0.65**
83-32-9	**Acenaphthene**	**0.11**	**1.2**	98-95-3	Nitrobenzene	0.11	U
208-96-8	**Acenaphthylene**	**0.11**	**0.33**	62-75-9	N-Nitrosodimethylamine	0.14	U
98-86-2	Acetophenone	0.11	U	621-64-7	N-Nitroso-di-n-propylamine	0.042	U
120-12-7	**Anthracene**	**0.11**	**2.3**	86-30-6	n-Nitrosodiphenylamine	0.38	U
1912-24-9	Atrazine	0.11	U	87-86-5	Pentachlorophenol	0.56	U
100-52-7	Benzaldehyde	1.2	U	**85-01-8**	**Phenanthrene**	**0.11**	**9.1**
92-87-5	Benzidine	0.20	U	108-95-2	Phenol	0.11	U
56-55-3	**Benzo[a]anthracene**	**0.11**	**4.8**	**129-00-0**	**Pyrene**	**0.11**	**9.8**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

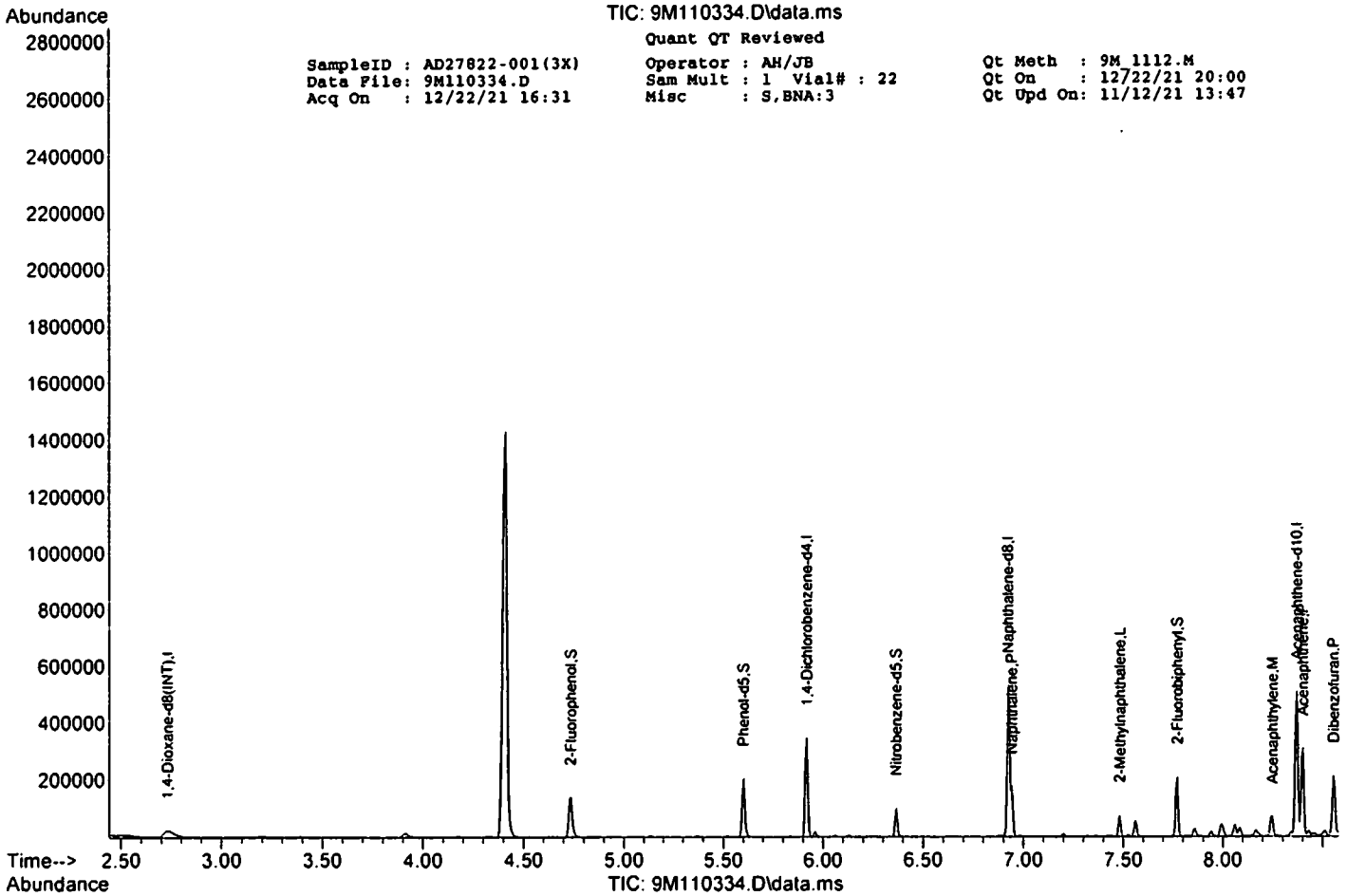
Quantitation Report (QT Reviewed)

SampleID : AD27822-001(3X) Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110334.D Sam Mult : 1 Vial# : 22 Qt On : 12/22/21 20:00
Acq On : 12/22/21 16:31 Misc : S,BNA:3 Qt Upd On: 11/12/21 13:47

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-2221\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.731	96	27564	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.919	152	50979	40.00	ng	-0.01
31) Naphthalene-d8	6.925	136	205327	40.00	ng	-0.01
50) Acenaphthene-d10	8.372	164	100619	40.00	ng	-0.01
77) Phenanthrene-d10	9.854	188	181373	40.00	ng	0.00
91) Chrysene-d12	12.924	240	152845	40.00	ng	0.00
103) Perylene-d12	14.571	264	157753	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.737	112	51453	32.41	ng	0.00
Spiked Amount 100.000			Recovery = 32.41%			
16) Phenol-d5	5.601	99	68005	33.43	ng	0.00
Spiked Amount 100.000			Recovery = 33.43%			
32) Nitrobenzene-d5	6.366	128	12547	17.99	ng	-0.01
Spiked Amount 50.000			Recovery = 35.98%			
55) 2-Fluorobiphenyl	7.772	172	57889	15.50	ng	-0.01
Spiked Amount 50.000			Recovery = 31.00%			
80) 2,4,6-Tribromophenol	9.119	330	14835	32.80	ng	0.00
Spiked Amount 100.000			Recovery = 32.80%			
94) Terphenyl-d14	11.660	244	45513	17.82	ng	0.00
Spiked Amount 50.000			Recovery = 35.64%			
Target Compounds						Qvalue
41) Naphthalene	6.942	128	63071	11.7664	ng	99
46) 2-Methylnaphthalene	7.484	142	20208	5.7174	ng	99
62) Acenaphthylene	8.248	152	29426	5.9656	ng	100
65) Acenaphthene	8.401	153	71017m	21.9565	ng	
68) Dibenzofuran	8.554	168	81094	17.1682	ng	89
72) Fluorene	8.883	166	64272	17.6235	ng	99
86) Phenanthrene	9.877	178	827108	164.5648	ng	98
87) Anthracene	9.930	178	206779m	40.6246	ng	
88) Carbazole	10.101	167	95571	20.1762	ng	96
90) Fluoranthene	11.224	202	956621	180.7793	ng	98
92) Pyrene	11.489	202	867094	176.1529	ng	97
100) Benzo[a]anthracene	12.913	228	416697m	86.7021	ng	
101) Chrysene	12.954	228	326718m	69.6242	ng	
105) Benzo[b]fluoranthene	14.136	252	453912m	100.1234	ng	
106) Benzo[k]fluoranthene	14.160	252	141633m	31.8275	ng	
107) Benzo[a]pyrene	14.507	252	337313	78.7033	ng	93
108) Indeno[1,2,3-cd]pyrene	15.959	276	227599	46.4892	ng	83
109) Dibenzo[a,h]anthracene	15.965	278	45941m	11.4525	ng	
110) Benzo[g,h,i]perylene	16.359	276	211631	52.1173	ng	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed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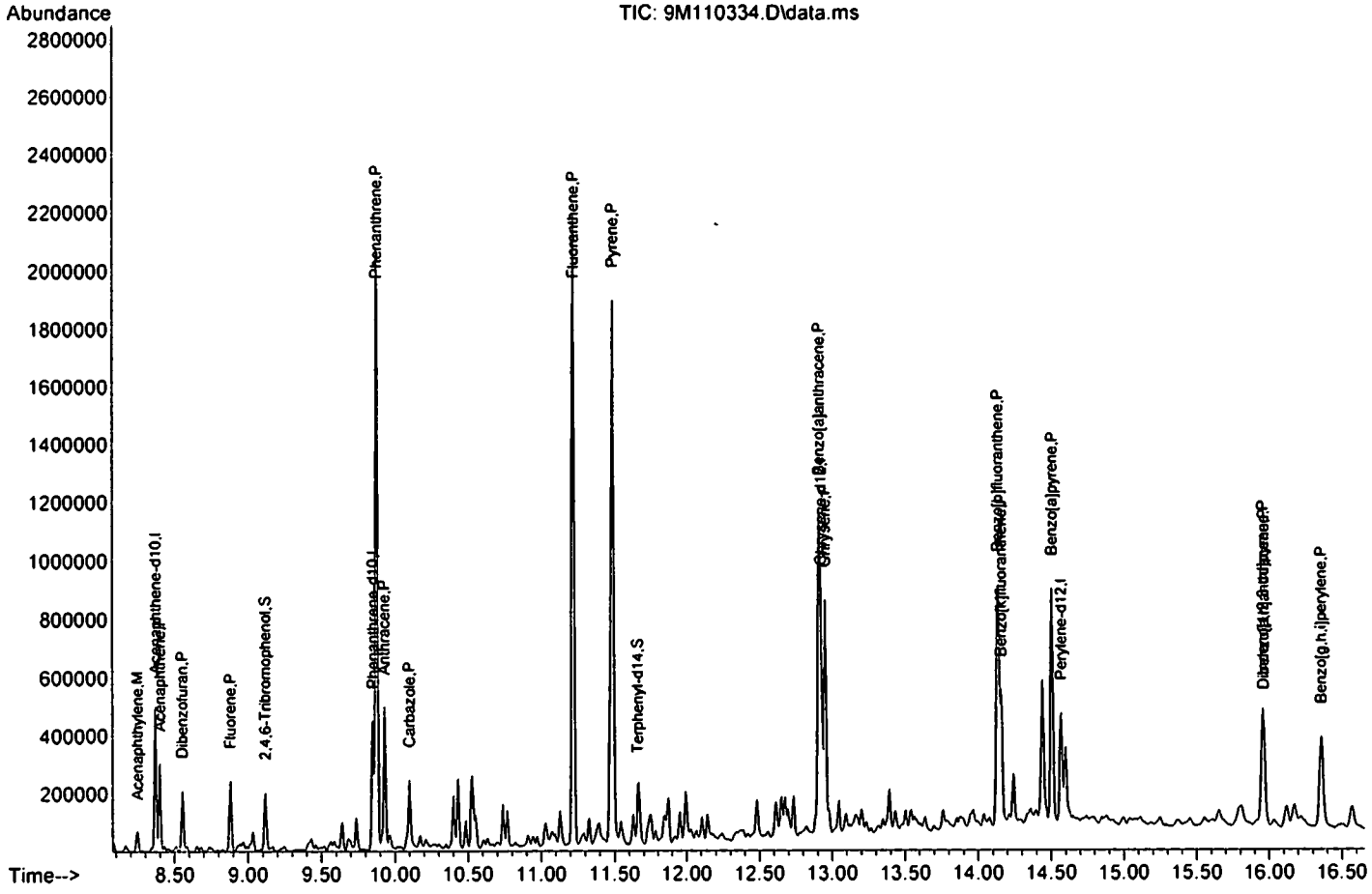
Quant QT Reviewed
SampleID : AD27822-001(3X)
Data File: 9M110334.D
Acq On : 12/22/21 16:31
Operator : AH/JB
Sam Mult : 1 Vial# : 22
Misc : S,BNA:3
Qt Meth : 9M_1112.M
Qt On : 12/22/21 20:00
Qt Upd On: 11/12/21 13:47
Abundance
Time-->


TIC: 9M110334.D\data.ms
Abundance
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB95963
Client Id:
Data File: 10M88971.D
Analysis Date: 12/22/21 09:23
Date Rec/Extracted: NA-12/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 622842

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

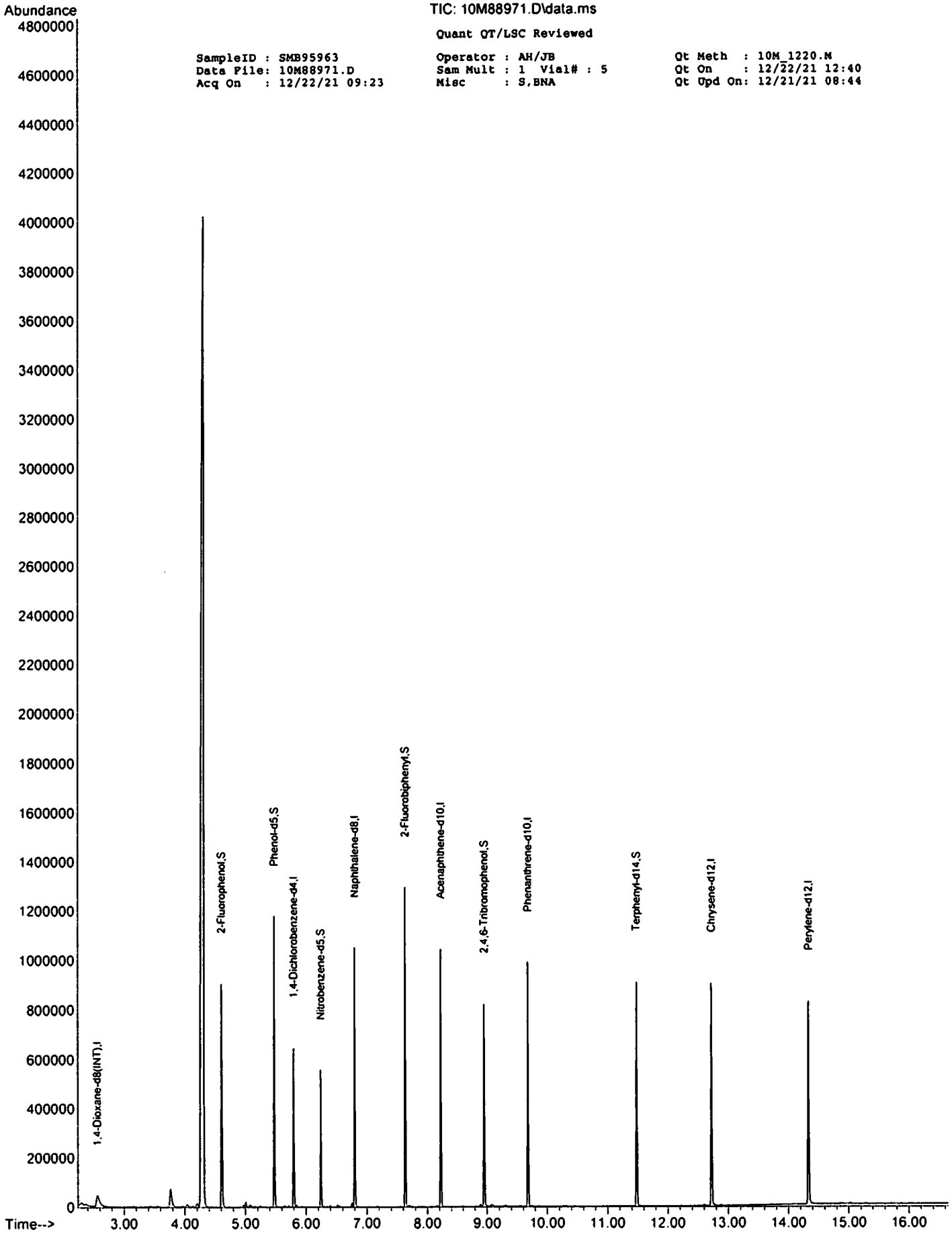
Quantitation Report (QT/LSC Reviewed)

SampleID : SMB95963 Operator : AH/JB Qt Meth : 10M_1220.M
Data File: 10M88971.D Sam Mult : 1 Vial# : 5 Qt On : 12/22/21 12:40
Acq On : 12/22/21 09:23 Misc : S,BNA Qt Upd On: 12/21/21 08:44

Data Path : G:\GcMsData\2021\GCMS_10\Data\12-22-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.558	96	58398	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.799	152	107244	40.00	ng	0.00
31) Naphthalene-d8	6.799	136	418194	40.00	ng	0.00
50) Acenaphthene-d10	8.222	164	214689	40.00	ng	0.00
77) Phenanthrene-d10	9.677	188	404673	40.00	ng	0.00
91) Chrysene-d12	12.720	240	333881	40.00	ng	0.00
103) Perylene-d12	14.335	264	356329	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.606	112	311054	82.03	ng	0.00
Spiked Amount 100.000			Recovery =	82.03%		
16) Phenol-d5	5.478	99	378881	83.75	ng	0.00
Spiked Amount 100.000			Recovery =	83.75%		
32) Nitrobenzene-d5	6.243	128	79139	45.60	ng	0.00
Spiked Amount 50.000			Recovery =	91.20%		
55) 2-Fluorobiphenyl	7.634	172	377310	44.11	ng	0.00
Spiked Amount 50.000			Recovery =	88.22%		
80) 2,4,6-Tribromophenol	8.955	330	87529	78.87	ng	0.00
Spiked Amount 100.000			Recovery =	78.87%		
94) Terphenyl-d14	11.479	244	301740	46.73	ng	0.00
Spiked Amount 50.000			Recovery =	93.46%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M88971.D\data.ms
Quant QT/LSC Reviewed
SampleID : SMB95963
Data File: 10M88971.D
Acq On : 12/22/21 09:23
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : S,BNA
Qt Meth : 10M_1220.M
Qt On : 12/22/21 12:40
Qt Upd On: 12/21/21 08:44
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
10M88971.D	SMB95963	S	12/22/21 09:23	1		82	84	91	88	79	93
9M110334.D	AD27822-001(3X)	S	12/22/21 16:31	3		97	100	108	93	98	107
10M88972.D	SMB95963(MS)	S	12/22/21 09:46	1		83	84	101	101	101	109
9M110346.D	AD27924-004	S	12/22/21 21:09	1		105	109	106	98	101	126
9M110347.D	AD27924-004(MSD)	S	12/22/21 21:32	1		100	104	103	96	99	118
9M110348.D	AD27924-004(MS)	S	12/22/21 21:55	1		96	99	99	93	101	118

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95963

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M88972.D	SMB95963(MS)	12/22/2021 9:46:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.0075	0	50	36	25	150
Pyridine	1	32.7673	0	50	66	1	150
N-Nitrosodimethylamine	1	36.5538	0	50	73	50	130
Benzaldehyde	1	34.1367	0	50	68	20	220
Aniline	1	19.663	0	50	39	20	150
Pentachloroethane	1	38.3999	0	50	77	50	130
bis(2-Chloroethyl)ether	1	37.5768	0	50	75	50	130
Phenol	1	75.5459	0	100	76	20	150
2-Chlorophenol	1	81.0151	0	100	81	50	130
N-Decane	1	32.3169	0	50	65	20	130
1,3-Dichlorobenzene	1	36.9611	0	50	74	60	130
1,4-Dichlorobenzene	1	42.56	0	50	85	60	130
1,2-Dichlorobenzene	1	42.2305	0	50	84	50	130
Benzyl alcohol	1	46.0387	0	50	92	20	130
bis(2-chloroisopropyl)ether	1	38.418	0	50	77	40	130
2-Methylphenol	1	89.4343	0	100	89	50	130
Acetophenone	1	44.5149	0	50	89	50	130
Hexachloroethane	1	42.5637	0	50	85	50	130
N-Nitroso-di-n-propylamine	1	41.4095	0	50	83	40	130
3&4-Methylphenol	1	97.1292	0	100	97	70	130
Nitrobenzene	1	46.7716	0	50	94	70	130
Isophorone	1	41.5733	0	50	83	60	130
2-Nitrophenol	1	105.7771	0	100	106	70	130
2,4-Dimethylphenol	1	92.153	0	100	92	40	130
Benzoic Acid	1	98.5216	0	100	99	20	130
bis(2-Chloroethoxy)methane	1	45.9307	0	50	92	60	130
2,4-Dichlorophenol	1	96.7656	0	100	97	70	130
1,2,4-Trichlorobenzene	1	45.2385	0	50	90	50	130
Naphthalene	1	42.647	0	50	85	50	130
4-Chloroaniline	1	23.9749	0	50	48	10	150
Hexachlorobutadiene	1	43.6428	0	50	87	60	130
Caprolactam	1	49.8032	0	50	100	50	130
4-Chloro-3-methylphenol	1	102.2393	0	100	102	50	130
2-Methylnaphthalene	1	48.9645	0	50	98	70	130
1-Methylnaphthalene	1	46.5465	0	50	93	70	130
1,1'-Biphenyl	1	47.2198	0	50	94	60	130
1,2,4,5-Tetrachlorobenzene	1	46.1543	0	50	92	70	130
Hexachlorocyclopentadiene	1	42.2293	0	50	84	20	160
2,4,6-Trichlorophenol	1	104.7245	0	100	105	70	130
2,4,5-Trichlorophenol	1	104.8398	0	100	105	70	130
2-Chloronaphthalene	1	47.617	0	50	95	70	130
1,4-Dimethylnaphthalene	1	48.6263	0	50	97	70	130
Diphenyl Ether	1	47.1698	0	50	94	70	130
2-Nitroaniline	1	53.0512	0	50	106	50	130
Coumarin	1	49.3817	0	50	99	70	130
Acenaphthylene	1	45.6105	0	50	91	70	130
Dimethylphthalate	1	48.9291	0	50	98	70	130
2,6-Dinitrotoluene	1	51.206	0	50	102	70	130
Acenaphthene	1	47.9291	0	50	96	50	130
3-Nitroaniline	1	33.2394	0	50	66	10	130
2,4-Dinitrophenol	1	98.0239	0	100	98	20	150
Dibenzofuran	1	49.9287	0	50	100	70	130
2,4-Dinitrotoluene	1	50.3153	0	50	101	40	130
4-Nitrophenol	1	102.5512	0	100	103	20	150
2,3,4,6-Tetrachlorophenol	1	100.4118	0	100	100	70	130
Fluorene	1	48.6035	0	50	97	50	130
4-Chlorophenyl-phenylether	1	49.7529	0	50	100	70	130
Diethylphthalate	1	49.0961	0	50	98	70	130
4-Nitroaniline	1	50.1104	0	50	100	50	130
Atrazine	1	51.1842	0	50	102	50	130
4,6-Dinitro-2-methylphenol	1	110.1683	0	100	110	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95963

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	41.2577	0	50	83	50	130
1,2-Diphenylhydrazine	1	52.1461	0	50	104	70	130
4-Bromophenyl-phenylether	1	49.6698	0	50	99	70	130
Hexachlorobenzene	1	46.2132	0	50	92	70	130
N-Octadecane	1	48.8943	0	50	98	70	130
Pentachlorophenol	1	120.6281	0	100	121	40	130
Phenanthrene	1	50.3631	0	50	101	70	130
Anthracene	1	49.1557	0	50	98	70	130
Carbazole	1	50.1521	0	50	100	70	130
Di-n-butylphthalate	1	54.0008	0	50	108	70	130
Fluoranthene	1	51.9719	0	50	104	70	130
Pyrene	1	49.0557	0	50	98	50	130
Benzidine	1	2.0861	0	50	4.2	0	130
Butylbenzylphthalate	1	52.9486	0	50	106	50	130
3,3'-Dichlorobenzidine	1	26.6109	0	50	53	10	130
Benzo[a]anthracene	1	44.2801	0	50	89	70	130
Chrysene	1	53.0738	0	50	106	60	130
bis(2-Ethylhexyl)phthalate	1	54.5246	0	50	109	70	130
Di-n-octylphthalate	1	56.5161	0	50	113	70	130
Benzo[b]fluoranthene	1	51.2541	0	50	103	70	130
Benzo[k]fluoranthene	1	55.7177	0	50	111	70	130
Benzo[a]pyrene	1	49.762	0	50	100	70	130
Indeno[1,2,3-cd]pyrene	1	54.0719	0	50	108	70	130
Dibenzo[a,h]anthracene	1	51.5329	0	50	103	60	130
Benzo[g,h,i]perylene	1	51.1963	0	50	102	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95963

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110348.D	AD27924-004(MS)	12/22/2021 9:55:00 PM
Non Spike(If applicable):	9M110346.D	AD27924-004	12/22/2021 9:09:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.6317	0	50	33	25	150
Pyridine	1	27.8907	0	50	56	1	150
N-Nitrosodimethylamine	1	38.5018	0	50	77	50	130
Benzaldehyde	1	40.6027	0	50	81	20	220
Aniline	1	21.1208	0	50	42	20	150
Pentachloroethane	1	36.8278	0	50	74	50	130
bis(2-Chloroethyl)ether	1	37.8462	0	50	76	50	130
Phenol	1	84.2069	0	100	84	20	150
2-Chlorophenol	1	84.5341	0	100	85	50	130
N-Decane	1	33.798	0	50	68	20	130
1,3-Dichlorobenzene	1	36.3774	0	50	73	60	130
1,4-Dichlorobenzene	1	35.0917	0	50	70	60	130
1,2-Dichlorobenzene	1	35.1325	0	50	70	50	130
Benzyl alcohol	1	40.4147	0	50	81	20	130
bis(2-chloroisopropyl)ether	1	37.2801	0	50	75	40	130
2-Methylphenol	1	78.87	0	100	79	50	130
Acetophenone	1	39.6391	0	50	79	50	130
Hexachloroethane	1	33.0683	0	50	66	50	130
N-Nitroso-di-n-propylamine	1	37.9723	0	50	76	40	130
3&4-Methylphenol	1	82.5089	0	100	83	70	130
Nitrobenzene	1	44.3363	0	50	89	70	130
Isophorone	1	39.1259	0	50	78	60	130
2-Nitrophenol	1	90.4474	0	100	90	70	130
2,4-Dimethylphenol	1	71.2037	0	100	71	40	130
Benzoic Acid	1	24.7656	0	100	25	20	130
bis(2-Chloroethoxy)methane	1	40.0066	0	50	80	60	130
2,4-Dichlorophenol	1	82.2817	0	100	82	70	130
1,2,4-Trichlorobenzene	1	37.8364	0	50	76	50	130
Naphthalene	1	37.1131	0	50	74	50	130
4-Chloroaniline	1	24.9172	0	50	50	10	150
Hexachlorobutadiene	1	35.8016	0	50	72	60	130
Caprolactam	1	40.3496	0	50	81	50	130
4-Chloro-3-methylphenol	1	95.1419	0	100	95	50	130
2-Methylnaphthalene	1	39.9131	0	50	80	70	130
1-Methylnaphthalene	1	40.3884	0	50	81	70	130
1,1'-Biphenyl	1	39.4034	0	50	79	60	130
1,2,4,5-Tetrachlorobenzene	1	36.0137	0	50	72	70	130
Hexachlorocyclopentadiene	1	2.5046	0	50	5*	20	160
2,4,6-Trichlorophenol	1	81.7803	0	100	82	70	130
2,4,5-Trichlorophenol	1	87.6358	0	100	88	70	130
2-Chloronaphthalene	1	39.5382	0	50	79	70	130
1,4-Dimethylnaphthalene	1	38.7648	0	50	78	70	130
Diphenyl Ether	1	38.4451	0	50	77	70	130
2-Nitroaniline	1	49.1983	0	50	98	50	130
Coumarin	1	39.5871	0	50	79	70	130
Acenaphthylene	1	40.1884	0	50	80	70	130
Dimethylphthalate	1	41.8922	0	50	84	70	130
2,6-Dinitrotoluene	1	38.1533	0	50	76	70	130
Acenaphthene	1	40.4326	0	50	81	50	130
3-Nitroaniline	1	41.0906	0	50	82	70	130
2,4-Dinitrophenol	1	12.7377	0	100	13*	20	150
Dibenzofuran	1	39.8497	0	50	80	70	130
2,4-Dinitrotoluene	1	42.5189	0	50	85	40	130
4-Nitrophenol	1	90.0133	0	100	90	20	150
2,3,4,6-Tetrachlorophenol	1	77.7818	0	100	78	70	130
Fluorene	1	40.1365	0	50	80	50	130
4-Chlorophenyl-phenylether	1	40.4746	0	50	81	70	130
Diethylphthalate	1	41.731	0	50	83	70	130
4-Nitroaniline	1	41.74	0	50	83	50	130
Atrazine	1	42.9482	0	50	86	50	130
4,6-Dinitro-2-methylphenol	1	29.2004	0	100	29*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95963

Method: 8270E	Matrix: Soil		Units: mg/Kg	QC Type: MS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.44	0	50	71	50	130
1,2-Diphenylhydrazine	1	50.9992	0	50	102	70	130
4-Bromophenyl-phenylether	1	43.3739	0	50	87	70	130
Hexachlorobenzene	1	40.2281	0	50	80	70	130
N-Octadecane	1	51.154	0	50	102	70	130
Pentachlorophenol	1	77.4094	0	100	77	40	130
Phenanthrene	1	43.6455	3.2173	50	81	70	130
Anthracene	1	42.4565	0	50	85	70	130
Carbazole	1	43.0699	0	50	86	70	130
Di-n-butylphthalate	1	48.4299	0	50	97	70	130
Fluoranthene	1	50.7825	10.881	50	80	70	130
Pyrene	1	55.7819	13.9595	50	84	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	51.4654	0	50	103	50	130
3,3'-Dichlorobenzidine	1	33.5895	0	50	67	10	130
Benzo[a]anthracene	1	44.5904	7.6403	50	74	70	130
Chrysene	1	48.2672	9.5331	50	77	60	130
bis(2-Ethylhexyl)phthalate	1	49.3981	0	50	99	70	130
Di-n-octylphthalate	1	51.9865	0	50	104	70	130
Benzo[b]fluoranthene	1	54.3436	13.7997	50	81	70	130
Benzo[k]fluoranthene	1	43.7423	3.973	50	80	70	130
Benzo[a]pyrene	1	44.8355	5.9377	50	78	70	130
Indeno[1,2,3-cd]pyrene	1	43.2263	4.3783	50	78	70	130
Dibenzo[a,h]anthracene	1	41.3094	0	50	83	60	130
Benzo[g,h,i]perylene	1	40.5834	4.2333	50	73	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95963

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110347.D	AD27924-004(MSD)	12/22/2021 9:32:00 PM
Non Spike(If applicable):	9M110346.D	AD27924-004	12/22/2021 9:09:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	16.8119	0	50	34	25	150
Pyridine	1	35.0566	0	50	70	1	150
N-Nitrosodimethylamine	1	38.7303	0	50	77	50	130
Benzaldehyde	1	40.4269	0	50	81	20	220
Aniline	1	18.305	0	50	37	20	150
Pentachloroethane	1	37.0666	0	50	74	50	130
bis(2-Chloroethyl)ether	1	37.8351	0	50	76	50	130
Phenol	1	84.1932	0	100	84	20	150
2-Chlorophenol	1	86.5836	0	100	87	50	130
N-Decane	1	33.7414	0	50	67	20	130
1,3-Dichlorobenzene	1	36.0114	0	50	72	60	130
1,4-Dichlorobenzene	1	36.1521	0	50	72	60	130
1,2-Dichlorobenzene	1	36.0267	0	50	72	50	130
Benzyl alcohol	1	40.9878	0	50	82	20	130
bis(2-chloroisopropyl)ether	1	38.0669	0	50	76	40	130
2-Methylphenol	1	80.6666	0	100	81	50	130
Acetophenone	1	39.6534	0	50	79	50	130
Hexachloroethane	1	33.832	0	50	68	50	130
N-Nitroso-di-n-propylamine	1	38.2664	0	50	77	40	130
3&4-Methylphenol	1	83.596	0	100	84	70	130
Nitrobenzene	1	44.2845	0	50	89	70	130
Isophorone	1	38.7032	0	50	77	60	130
2-Nitrophenol	1	89.7231	0	100	90	70	130
2,4-Dimethylphenol	1	76.4004	0	100	76	40	130
Benzoic Acid	1	32.3097	0	100	32	20	130
bis(2-Chloroethoxy)methane	1	39.789	0	50	80	60	130
2,4-Dichlorophenol	1	80.7263	0	100	81	70	130
1,2,4-Trichlorobenzene	1	37.5239	0	50	75	50	130
Naphthalene	1	36.6295	0	50	73	50	130
4-Chloroaniline	1	22.1007	0	50	44	10	150
Hexachlorobutadiene	1	35.247	0	50	70	60	130
Caprolactam	1	42.1949	0	50	84	50	130
4-Chloro-3-methylphenol	1	93.417	0	100	93	50	130
2-Methylnaphthalene	1	39.0604	0	50	78	70	130
1-Methylnaphthalene	1	39.4898	0	50	79	70	130
1,1'-Biphenyl	1	38.4548	0	50	77	60	130
1,2,4,5-Tetrachlorobenzene	1	35.696	0	50	71	70	130
Hexachlorocyclopentadiene	1	2.5066	0	50	5*	20	160
2,4,6-Trichlorophenol	1	79.796	0	100	80	70	130
2,4,5-Trichlorophenol	1	84.703	0	100	85	70	130
2-Chloronaphthalene	1	38.4648	0	50	77	70	130
1,4-Dimethylnaphthalene	1	37.5971	0	50	75	70	130
Diphenyl Ether	1	37.2514	0	50	75	70	130
2-Nitroaniline	1	46.7717	0	50	94	50	130
Coumarin	1	38.047	0	50	76	70	130
Acenaphthylene	1	39.3423	0	50	79	70	130
Dimethylphthalate	1	39.6227	0	50	79	70	130
2,6-Dinitrotoluene	1	36.0582	0	50	72	70	130
Acenaphthene	1	38.6889	0	50	77	50	130
3-Nitroaniline	1	38.3858	0	50	77	70	130
2,4-Dinitrophenol	1	14.5515	0	100	15*	20	150
Dibenzofuran	1	38.2123	0	50	76	70	130
2,4-Dinitrotoluene	1	40.1741	0	50	80	40	130
4-Nitrophenol	1	87.254	0	100	87	20	150
2,3,4,6-Tetrachlorophenol	1	73.1468	0	100	73	70	130
Fluorene	1	38.2624	0	50	77	50	130
4-Chlorophenyl-phenylether	1	38.8615	0	50	78	70	130
Diethylphthalate	1	39.7416	0	50	79	70	130
4-Nitroaniline	1	39.5722	0	50	79	50	130
Atrazine	1	41.1315	0	50	82	50	130
4,6-Dinitro-2-methylphenol	1	26.4138	0	100	26*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95963

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	32.9302	0	50	66	50	130
1,2-Diphenylhydrazine	1	47.5138	0	50	95	70	130
4-Bromophenyl-phenylether	1	40.1979	0	50	80	70	130
Hexachlorobenzene	1	38.3107	0	50	77	70	130
N-Octadecane	1	48.0024	0	50	96	70	130
Pentachlorophenol	1	70.0921	0	100	70	40	130
Phenanthrene	1	42.3858	3.2173	50	78	70	130
Anthracene	1	40.4135	0	50	81	70	130
Carbazole	1	40.6178	0	50	81	70	130
Di-n-butylphthalate	1	45.1658	0	50	90	70	130
Fluoranthene	1	52.306	10.881	50	83	70	130
Pyrene	1	58.2034	13.9595	50	88	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	49.4462	0	50	99	50	130
3,3'-Dichlorobenzidine	1	31.4905	0	50	63	10	130
Benzo[a]anthracene	1	43.1044	7.6403	50	71	70	130
Chrysene	1	50.1244	9.5331	50	81	60	130
bis(2-Ethylhexyl)phthalate	1	47.6544	0	50	95	70	130
Di-n-octylphthalate	1	50.1829	0	50	100	70	130
Benzo[b]fluoranthene	1	55.6249	13.7997	50	84	70	130
Benzo[k]fluoranthene	1	43.0378	3.973	50	78	70	130
Benzo[a]pyrene	1	43.3606	5.9377	50	75	70	130
Indeno[1,2,3-cd]pyrene	1	42.3367	4.3783	50	76	70	130
Dibenzo[a,h]anthracene	1	39.6511	0	50	79	60	130
Benzo[g,h,i]perylene	1	39.3848	4.2333	50	70	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95963

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110347.D	AD27924-004(MSD)	12/22/2021 9:32:00 PM
Duplicate(If applicable):	9M110348.D	AD27924-004(MS)	12/22/2021 9:55:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	16.8119	16.6317	1.1	30
Pyridine	1	35.0566	27.8907	23	30
N-Nitrosodimethylamine	1	38.7303	38.5018	0.59	30
Benzaldehyde	1	40.4269	40.6027	0.43	30
Aniline	1	18.305	21.1208	14	30
Pentachloroethane	1	37.0666	36.8278	0.65	30
bis(2-Chloroethyl)ether	1	37.8351	37.8462	0.03	30
Phenol	1	84.1932	84.2069	0.02	40
2-Chlorophenol	1	86.5836	84.5341	2.4	40
N-Decane	1	33.7414	33.798	0.17	30
1,3-Dichlorobenzene	1	36.0114	36.3774	1	30
1,4-Dichlorobenzene	1	36.1521	35.0917	3	40
1,2-Dichlorobenzene	1	36.0267	35.1325	2.5	30
Benzyl alcohol	1	40.9878	40.4147	1.4	30
bis(2-chloroisopropyl)ether	1	38.0669	37.2801	2.1	30
2-Methylphenol	1	80.6666	78.87	2.3	40
Acetophenone	1	39.6534	39.6391	0.04	30
Hexachloroethane	1	33.832	33.0683	2.3	30
N-Nitroso-di-n-propylamine	1	38.2664	37.9723	0.77	40
3&4-Methylphenol	1	83.596	82.5089	1.3	30
Nitrobenzene	1	44.2845	44.3363	0.12	30
Isophorone	1	38.7032	39.1259	1.1	30
2-Nitrophenol	1	89.7231	90.4474	0.8	30
2,4-Dimethylphenol	1	76.4004	71.2037	7	40
Benzoic Acid	1	32.3097	24.7656	26	30
bis(2-Chloroethoxy)methane	1	39.789	40.0066	0.55	30
2,4-Dichlorophenol	1	80.7263	82.2817	1.9	30
1,2,4-Trichlorobenzene	1	37.5239	37.8364	0.83	40
Naphthalene	1	36.6295	37.1131	1.3	40
4-Chloroaniline	1	22.1007	24.9172	12	30
Hexachlorobutadiene	1	35.247	35.8016	1.6	30
Caprolactam	1	42.1949	40.3496	4.5	30
4-Chloro-3-methylphenol	1	93.417	95.1419	1.8	40
2-Methylnaphthalene	1	39.0604	39.9131	2.2	30
1-Methylnaphthalene	1	39.4898	40.3884	2.2	30
1,1'-Biphenyl	1	38.4548	39.4034	2.4	30
1,2,4,5-Tetrachlorobenzene	1	35.696	36.0137	0.89	30
Hexachlorocyclopentadiene	1	2.5066	2.5046	0.08	30
2,4,6-Trichlorophenol	1	79.796	81.7803	2.5	30
2,4,5-Trichlorophenol	1	84.703	87.6358	3.4	30
2-Chloronaphthalene	1	38.4648	39.5382	2.8	30
1,4-Dimethylnaphthalene	1	37.5971	38.7648	3.1	30
Diphenyl Ether	1	37.2514	38.4451	3.2	30
2-Nitroaniline	1	46.7717	49.1983	5.1	30
Coumarin	1	38.047	39.5871	4	30
Acenaphthylene	1	39.3423	40.1884	2.1	30
Dimethylphthalate	1	39.6227	41.8922	5.6	30
2,6-Dinitrotoluene	1	36.0582	38.1533	5.6	30
Acenaphthene	1	38.6889	40.4326	4.4	40
3-Nitroaniline	1	38.3858	41.0906	6.8	30
2,4-Dinitrophenol	1	14.5515	12.7377	13	30
Dibenzofuran	1	38.2123	39.8497	4.2	30
2,4-Dinitrotoluene	1	40.1741	42.5189	5.7	40
4-Nitrophenol	1	87.254	90.0133	3.1	40
2,3,4,6-Tetrachlorophenol	1	73.1468	77.7818	6.1	30
Fluorene	1	38.2624	40.1365	4.8	40
4-Chlorophenyl-phenylether	1	38.8615	40.4746	4.1	30
Diethylphthalate	1	39.7416	41.731	4.9	30
4-Nitroaniline	1	39.5722	41.74	5.3	30
Atrazine	1	41.1315	42.9482	4.3	30
4,6-Dinitro-2-methylphenol	1	26.4138	29.2004	10	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95963

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	32.9302	35.44	7.3	30
1,2-Diphenylhydrazine	1	47.5138	50.9992	7.1	30
4-Bromophenyl-phenylether	1	40.1979	43.3739	7.6	30
Hexachlorobenzene	1	38.3107	40.2281	4.9	30
N-Octadecane	1	48.0024	51.154	6.4	30
Pentachlorophenol	1	70.0921	77.4094	9.9	40
Phenanthrene	1	42.3858	43.6455	2.9	30
Anthracene	1	40.4135	42.4565	4.9	30
Carbazole	1	40.6178	43.0699	5.9	30
Di-n-butylphthalate	1	45.1658	48.4299	7	30
Fluoranthene	1	52.306	50.7825	3	30
Pyrene	1	58.2034	55.7819	4.2	40
Benzidine	1	0	0	NA	30
Butylbenzylphthalate	1	49.4462	51.4654	4	40
3,3'-Dichlorobenzidine	1	31.4905	33.5895	6.5	30
Benzo[a]anthracene	1	43.1044	44.5904	3.4	30
Chrysene	1	50.1244	48.2672	3.8	30
bis(2-Ethylhexyl)phthalate	1	47.6544	49.3981	3.6	30
Di-n-octylphthalate	1	50.1829	51.9865	3.5	30
Benzo[b]fluoranthene	1	55.6249	54.3436	2.3	30
Benzo[k]fluoranthene	1	43.0378	43.7423	1.6	30
Benzo[a]pyrene	1	43.3606	44.8355	3.3	30
Indeno[1,2,3-cd]pyrene	1	42.3367	43.2263	2.1	30
Dibenzo[a,h]anthracene	1	39.6511	41.3094	4.1	30
Benzo[g,h,i]perylene	1	39.3848	40.5834	3	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95963
Blank Data File: 10M88971.D
Matrix: Soil

Blank Analysis Date: 12/22/21 09:23
Blank Extraction Date: 12/21/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD27822-001(3X)	9M110334.D	12/22/21 16:31
AD27924-004(MS)	9M110348.D	12/22/21 21:55
AD27924-004(MSD	9M110347.D	12/22/21 21:32
AD27924-004	9M110346.D	12/22/21 21:09
SMB95963(MS)	10M88972.D	12/22/21 09:46

Form 5

Tune Name: CAL DFTPP **Data File:** 9M109528.D
Instrument: GCMS 9 **Analysis Date:** 11/12/21 08:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.119 to 10.130 min

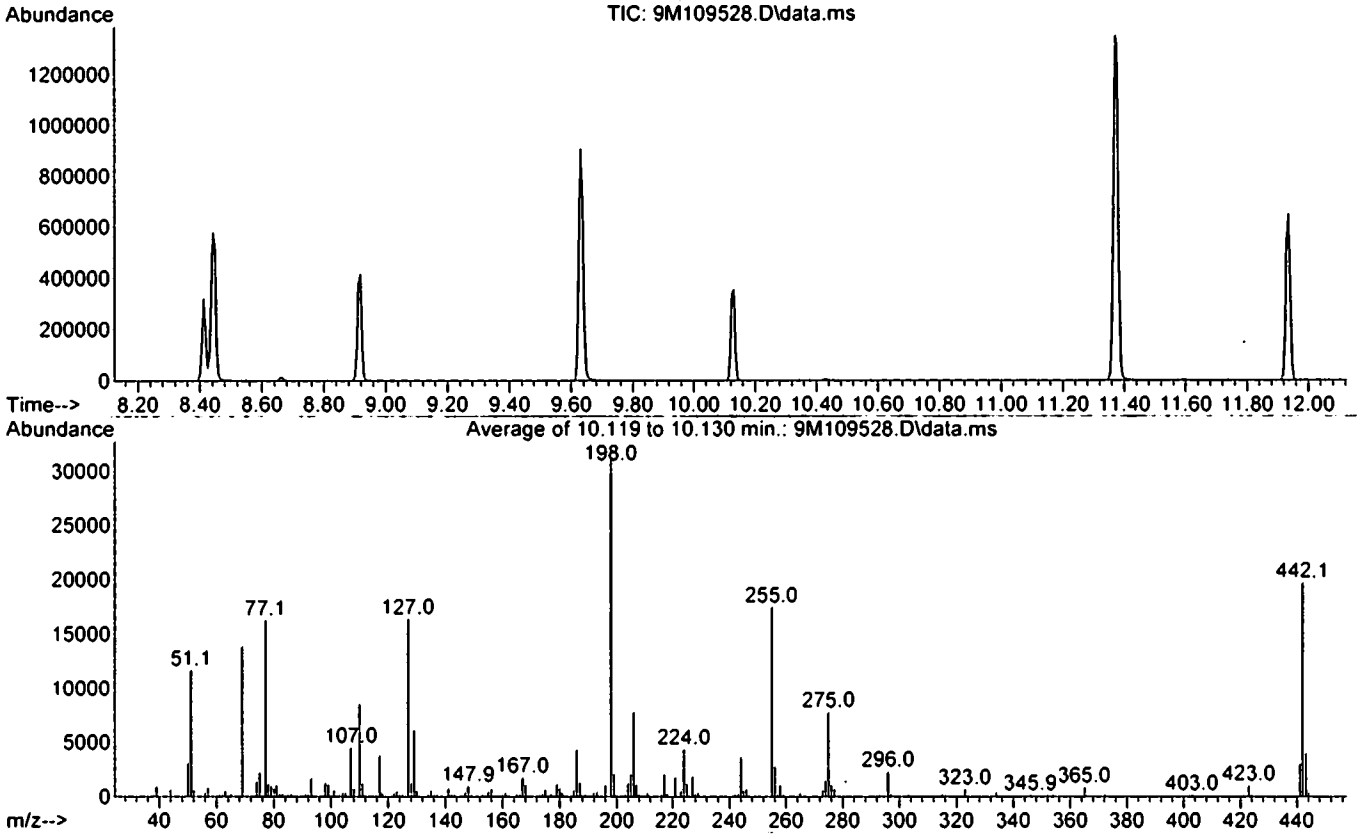
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

Data File	Sample Number	Analysis Date:
9M109529.D	CAL BNA@50PPM	11/12/21 08:27
9M109530.D	CAL BNA@50PPM	11/12/21 10:07
9M109531.D	CAL BNA@196PP	11/12/21 10:34
9M109532.D	CAL BNA@160PP	11/12/21 10:57
9M109533.D	CAL BNA@120PP	11/12/21 11:20
9M109534.D	CAL BNA@80PPM	11/12/21 11:43
9M109535.D	CAL BNA@10PPM	11/12/21 12:06
9M109536.D	CAL BNA@2PPM	11/12/21 12:29
9M109537.D	CAL BNA@20PPM	11/12/21 12:52
9M109538.D	CAL BNA@0.5PP	11/12/21 13:15
9M109539.D	ICV BNA@50PPM	11/12/21 13:39

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-12-21\
Data File : 9M109528.D
Acq On : 12 Nov 2021 8:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1110.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Nov 10 11:23:34 2021



Spectrum Information: Average of 10.119 to 10.130 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

PR

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M88942.D
Analysis Date: 12/20/21 10:59
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.960 to 9.966 min

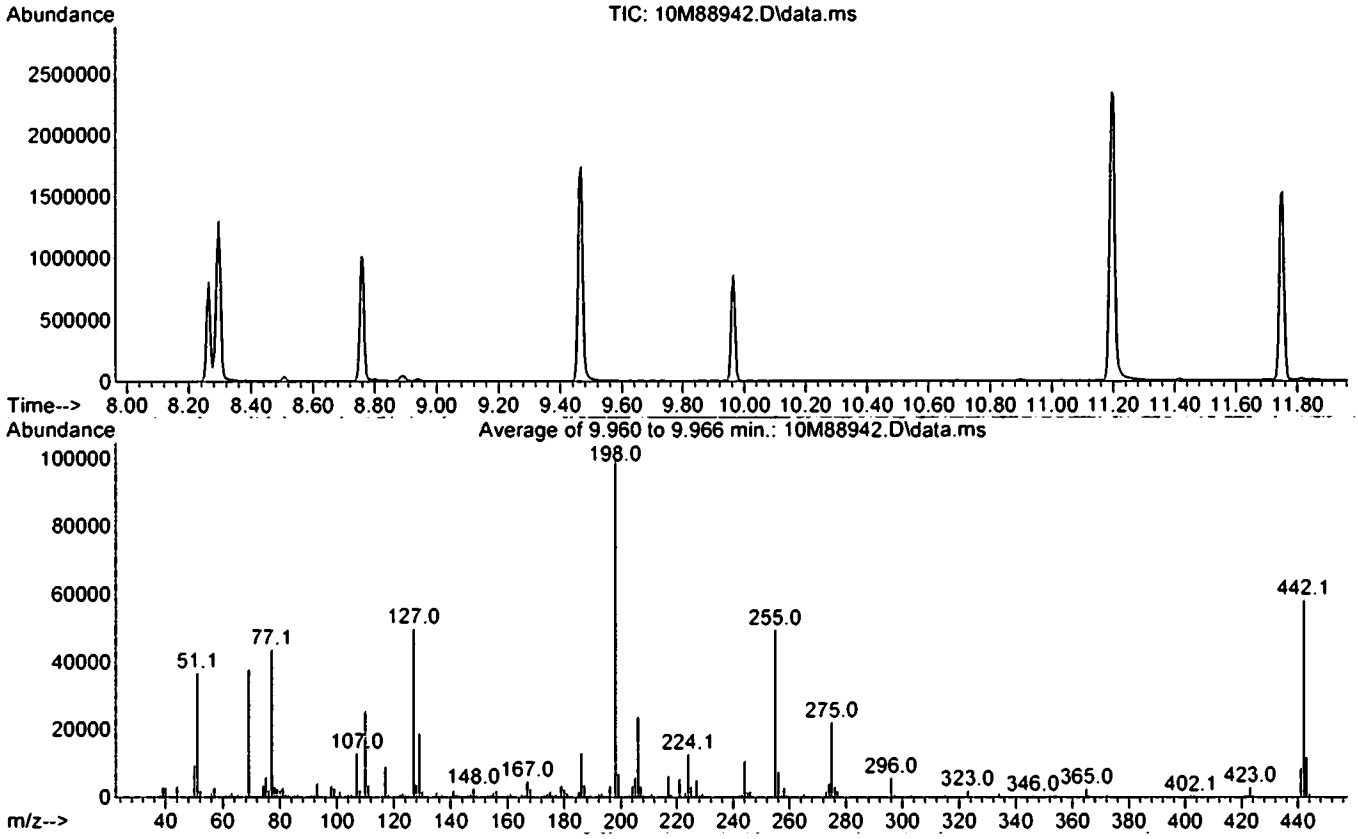
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	36.9	36812	PASS
68	69	0.00	2	1.6	617	PASS
69	198	0.00	100	37.9	37860	PASS
70	69	0.00	2	0.6	244	PASS
127	198	40	60	50.0	49968	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99860	PASS
199	198	5	9	6.9	6889	PASS
275	198	10	30	22.3	22220	PASS
365	198	1	100	2.6	2580	PASS
441	443	0.01	100	73.0	8554	PASS
442	198	40	100	58.4	58304	PASS
443	442	17	23	20.1	11717	PASS

Data File	Sample Number	Analysis Date:
10M88943.D	CAL BNA@10PPM	12/20/21 11:21
10M88944.D	CAL BNA@2PPM	12/20/21 11:43
10M88945.D	CAL BNA@196PP	12/20/21 12:17
10M88946.D	CAL BNA@160PP	12/20/21 12:39
10M88947.D	CAL BNA@120PP	12/20/21 13:01
10M88948.D	CAL BNA@80PPM	12/20/21 13:24
10M88949.D	CAL BNA@20PPM	12/20/21 13:46
10M88950.D	CAL BNA@0.5PP	12/20/21 14:08
10M88951.D	CAL BNA@50PPM	12/20/21 14:31
10M88952.D	ICV BNA@50PPM	12/20/21 14:53

Data Path : G:\GcMsData\2021\GCMS_10\Data\12-20-21\
Data File : 10M88942.D
Acq On : 20 Dec 2021 10:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_1220.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Dec 21 08:21:09 2021



Spectrum Information: Average of 9.960 to 9.966 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.9	36812	PASS
68	69	0.00	2	1.6	617	PASS
69	198	0.00	100	37.9	37860	PASS
70	69	0.00	2	0.6	244	PASS
127	198	40	60	50.0	49968	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99860	PASS
199	198	5	9	6.9	6889	PASS
275	198	10	30	22.3	22220	PASS
365	198	1	100	2.6	2580	PASS
441	443	0.01	100	73.0	8554	PASS
442	198	40	100	58.4	58304	PASS
443	442	17	23	20.1	11717	PASS

PR

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M88967.D
Analysis Date: 12/22/21 07:52
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.955 to 9.966 min

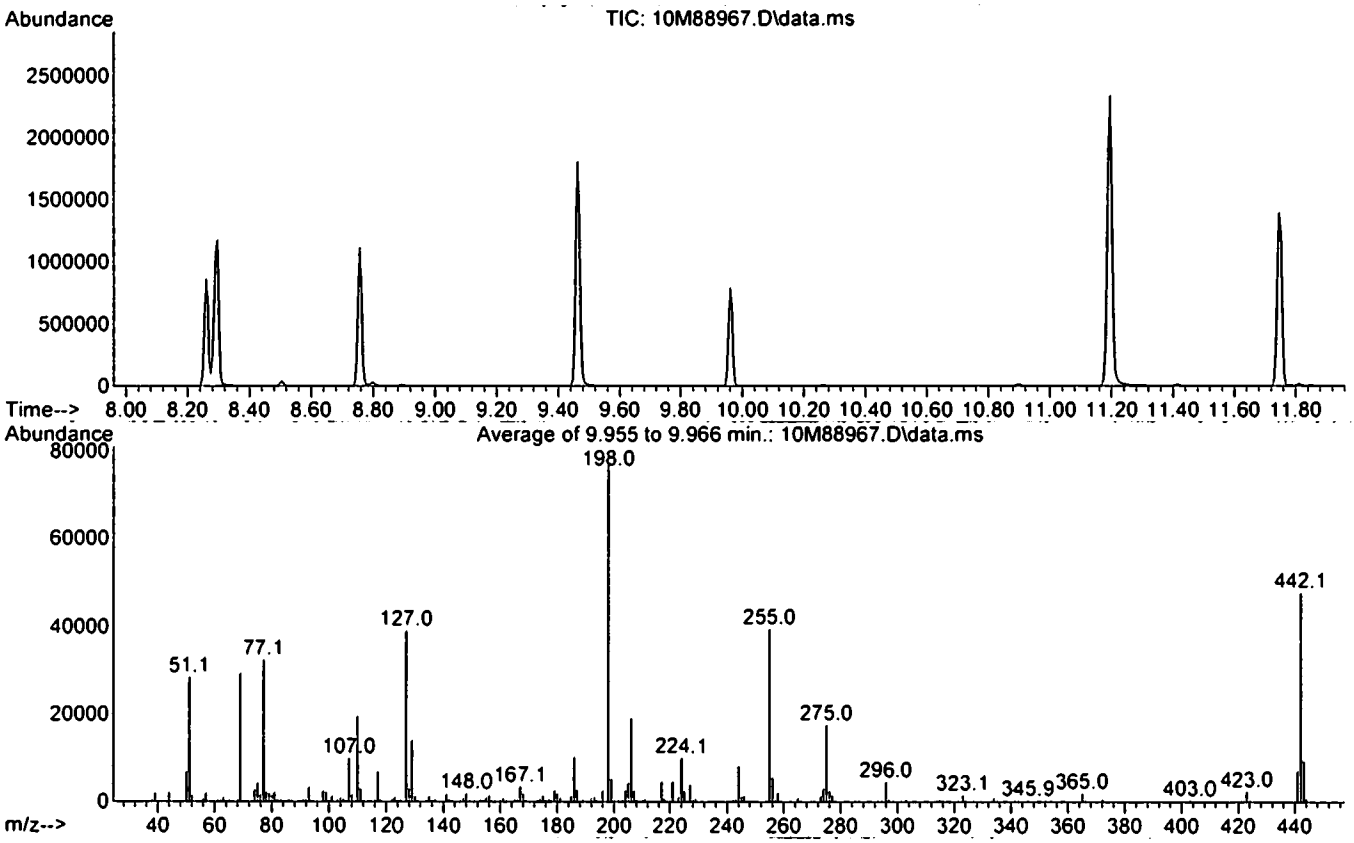
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	36.9	28475	PASS
68	69	0.00	2	1.8	521	PASS
69	198	0.00	100	38.2	29456	PASS
70	69	0.00	2	0.2	58	PASS
127	198	40	60	50.7	39117	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	77163	PASS
199	198	5	9	6.8	5219	PASS
275	198	10	30	22.8	17585	PASS
365	198	1	100	2.5	1931	PASS
441	443	0.01	100	76.2	7115	PASS
442	198	40	100	61.9	47773	PASS
443	442	17	23	19.5	9339	PASS

Data File	Sample Number	Analysis Date:
10M88968.D	CAL BNA@50PPM	12/22/21 08:15
10M88969.D	OMB95956(MS)	12/22/21 08:38
10M88970.D	OMB95956	12/22/21 09:01
10M88971.D	SMB95963	12/22/21 09:23
10M88972.D	SMB95963(MS)	12/22/21 09:46
10M88973.D	AD27886-014	12/22/21 10:08
10M88974.D	AD27886-028	12/22/21 10:31
10M88975.D	AD27886-042	12/22/21 10:53
10M88976.D	AD27886-013	12/22/21 11:15
10M88977.D	AD27886-027	12/22/21 11:38
10M88978.D	AD27886-041	12/22/21 12:00
10M88979.D	AD27934-001	12/22/21 12:23
10M88980.D	AD27886-014(MS)	12/22/21 12:45
10M88981.D	AD27886-014(MSD	12/22/21 13:08
10M88982.D	AD27924-006	12/22/21 13:40
10M88983.D	AD27924-008	12/22/21 14:02
10M88984.D	AD27813-005(30X)	12/22/21 14:25
10M88985.D	AD27813-006(30X)	12/22/21 14:47
10M88986.D	SMB95972(MS)	12/22/21 15:10

Data Path : G:\GcMsData\2021\GCMS_10\Data\12-22-21\
Data File : 10M88967.D
Acq On : 22 Dec 2021 7:52
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_1220.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Dec 21 08:21:09 2021



Spectrum Information: Average of 9.955 to 9.966 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.9	28475	PASS
68	69	0.00	2	1.8	521	PASS
69	198	0.00	100	38.2	29456	PASS
70	69	0.00	2	0.2	58	PASS
127	198	40	60	50.7	39117	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	77163	PASS
199	198	5	9	6.8	5219	PASS
275	198	10	30	22.8	17585	PASS
365	198	1	100	2.5	1931	PASS
441	443	0.01	100	76.2	7115	PASS
442	198	40	100	61.9	47773	PASS
443	442	17	23	19.5	9339	PASS

PR

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M110329.D
Analysis Date: 12/22/21 14:36
Method: EPA 8270E

Tune Scan/Time Range: Scan 1306

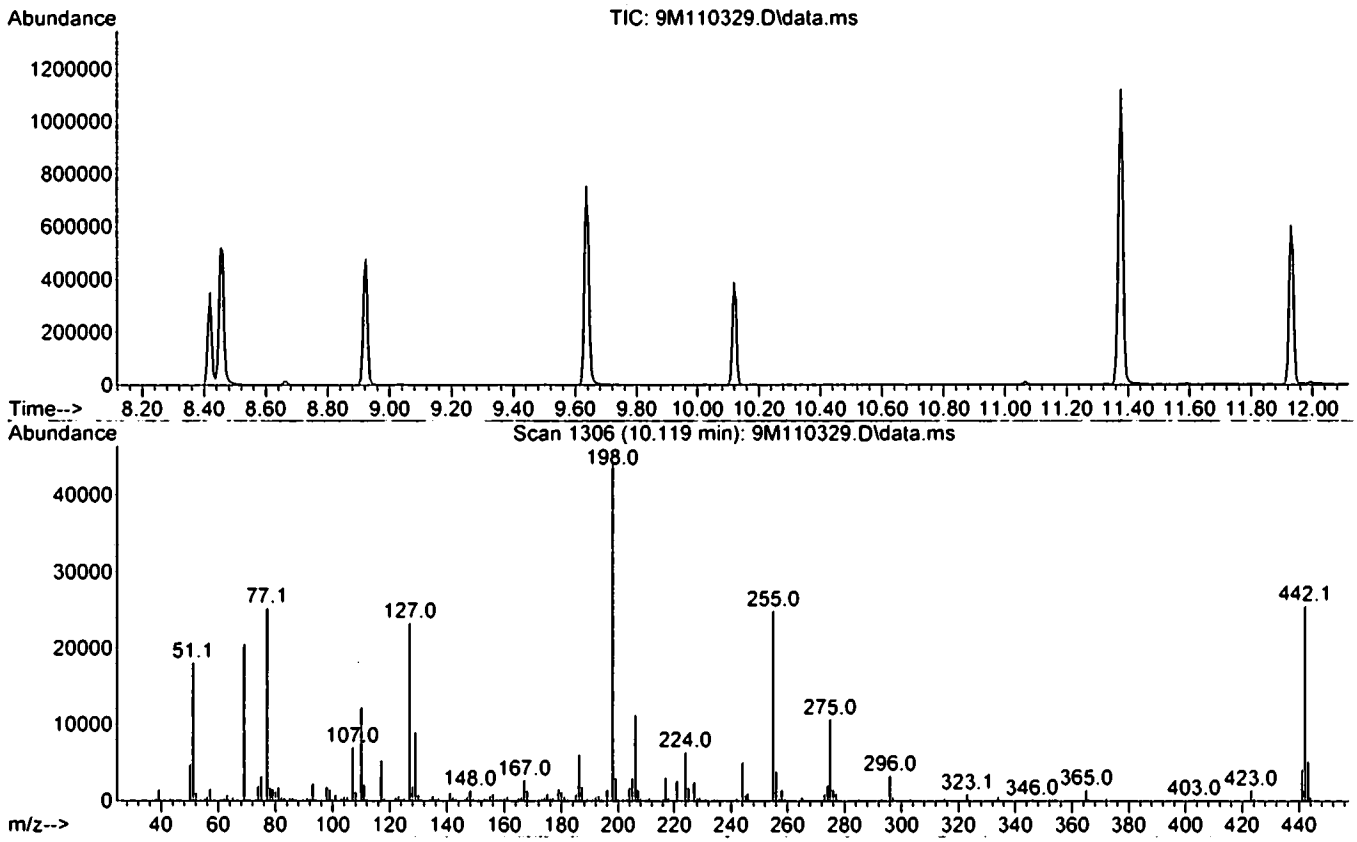
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.0	18152	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.5	20608	PASS
70	69	0.00	2	0.9	177	PASS
127	198	40	60	52.8	23376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44288	PASS
199	198	5	9	6.8	3008	PASS
275	198	10	30	24.2	10712	PASS
365	198	1	100	3.4	1514	PASS
441	443	0.01	100	80.5	4172	PASS
442	198	40	100	57.8	25584	PASS
443	442	17	23	20.3	5185	PASS

Data File	Sample Number	Analysis Date:
9M110330.D	BNA@50PPM	12/22/21 14:55
9M110331.D	CAL BNA@50PPM	12/22/21 15:22
9M110332.D	AD27983-001	12/22/21 15:45
9M110333.D	AD27844-001	12/22/21 16:08
9M110334.D	AD27822-001(3X)	12/22/21 16:31
9M110335.D	AD27918-001	12/22/21 16:54
9M110336.D	AD27925-002	12/22/21 17:17
9M110337.D	AD27925-004(5X)	12/22/21 17:40
9M110338.D	AD27908-002(3X)	12/22/21 18:04
9M110339.D	AD27908-005(5X)	12/22/21 18:27
9M110340.D	AD27908-004	12/22/21 18:50
9M110341.D	AD27928-041	12/22/21 19:13
9M110342.D	AD27928-028	12/22/21 19:36
9M110343.D	AD27928-027(10X)	12/22/21 19:59
9M110344.D	SMB95963	12/22/21 20:22
9M110345.D	SMB95972	12/22/21 20:46
9M110346.D	AD27924-004	12/22/21 21:09
9M110347.D	AD27924-004(MSD	12/22/21 21:32
9M110348.D	AD27924-004(MS)	12/22/21 21:55
9M110349.D	AD27946-001(MS)	12/22/21 22:18
9M110350.D	AD27946-001(MSD	12/22/21 22:41
9M110351.D	AD27765-004(3X)(	12/22/21 23:05
9M110352.D	AD27765-013(30X)	12/22/21 23:28
9M110353.D	AD27765-013(30X)	12/22/21 23:51
9M110354.D	AD27765-013(30X)	12/23/21 00:14
9M110355.D	AD27792-003(10X)	12/23/21 00:37
9M110356.D	AD27792-008(10X)	12/23/21 01:00
9M110357.D	AD27755-009(3X)	12/23/21 01:24

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-2221\
Data File : 9M110329.D
Acq On : 22 Dec 2021 14:36
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1112.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Nov 12 13:36:55 2021



Spectrum Information: Scan 1306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	18152	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.5	20608	PASS
70	69	0.00	2	0.9	177	PASS
127	198	40	60	52.8	23376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44288	PASS
199	198	5	9	6.8	3008	PASS
275	198	10	30	24.2	10712	PASS
365	198	1	100	3.4	1514	PASS
441	443	0.01	100	80.5	4172	PASS
442	198	40	100	57.8	25584	PASS
443	442	17	23	20.3	5185	PASS

PR

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.9624	1.0385	0.9669	0.9852	1.0105	0.9840	0.9623	1.0374	1.2738	1.02	2.79	0.999	0.999	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0486	1.9170	1.8713	2.0691	2.2124	2.2284	2.2238	2.3593	-----	2.12	3.24	0.998	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5844	1.4491	1.4539	1.5611	1.6550	1.6441	1.6192	1.7263	-----	1.59	3.19	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2576	2.2947	2.1426	2.2439	2.3506	2.3554	2.3159	2.4717	-----	2.30	4.73	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9817	2.0459	1.9007	1.9986	2.0301	1.9700	1.8467	1.8743	-----	1.96	5.56	0.998	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	3.6724	3.8218	3.6170	3.8109	3.8797	3.8028	3.7243	3.9384	5.9717	4.03	5.65	0.999	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8220	0.8160	0.8000	0.8246	0.8651	0.8584	0.8408	0.8950	-----	0.840	5.69	0.998	0.999	3.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4993	2.5870	2.4254	2.5484	2.6034	2.5521	2.4368	2.6078	3.7688	2.67	5.71	0.998	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9070	2.7980	2.7604	2.9117	3.0575	3.0437	2.9845	3.1500	-----	2.95	5.60	0.999	0.999	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4390	3.4392	3.2937	3.4793	3.5934	3.5717	3.4979	3.7009	-----	3.50	5.61	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4405	2.3875	2.3479	2.4739	2.5552	2.5234	2.4667	2.6111	-----	2.48	5.75	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.4001	2.4737	2.3574	2.4726	2.5051	2.4558	2.3701	2.4693	-----	2.44	5.79	0.999	0.999	2.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	2.6183	2.7799	2.5364	2.6789	2.7404	2.7154	2.6342	2.7741	-----	2.68	5.88	0.999	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.5135	1.5618	1.4460	1.5151	1.5577	1.5799	1.5269	1.6228	-----	1.54	5.94	0.998	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.4241	1.4528	1.3670	1.4209	1.4569	1.4820	1.4296	1.5216	-----	1.44	6.07	0.998	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9354	0.7923	0.8570	0.8927	0.9735	0.9931	0.9729	1.0312	-----	0.931	6.04	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5245	1.6342	1.5016	1.5422	1.5529	1.5613	1.5181	1.6110	-----	1.56	6.15	0.999	0.999	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2790	1.1876	1.1809	1.2453	1.3187	1.3446	1.3138	1.3888	1.8577	1.35	6.12	0.999	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8684	1.9327	1.8087	1.8489	1.9011	1.8899	1.7528	1.7972	-----	1.85	6.25	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5577	0.5501	0.5271	0.5475	0.5722	0.5824	0.5669	0.6033	-----	0.563	6.34	0.999	1.00	4.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0350	0.9675	0.9599	1.0188	1.0591	1.0389	0.9623	0.9938	1.5420	1.06	6.25	0.998	0.999	17	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3738	1.2322	1.2398	1.3105	1.4009	1.3982	1.3041	1.3519	1.8559	1.39	6.25	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Qua	0.1282	0.1135	0.1167	0.1295	0.1464	0.1518	0.1511	0.1602	-----	0.137	6.38	0.997	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Qua	0.3349	0.2940	0.3027	0.3287	0.3598	0.3626	0.3578	0.3710	-----	0.339	6.40	0.999	1.00	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6882	0.6448	0.6339	0.6649	0.7011	0.6990	0.6882	0.7195	-----	0.680	6.58	0.999	0.999	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1380	0.1026	0.1181	0.1310	0.1649	0.1706	0.1717	0.1775	-----	0.147	6.64	0.995	0.999	19	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3471	0.3040	0.3130	0.3362	0.3515	0.3547	0.3509	0.3663	0.4496	0.353	6.66	0.999	1.00	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1785	-----	0.1050	0.1306	0.2381	0.2357	0.2493	0.2565	-----	0.199	6.72	0.997	0.998	31		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4129	0.4087	0.3835	0.4010	0.4125	0.4165	0.4042	0.4268	-----	0.408	6.74	0.999	0.999	3.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2724	0.2294	0.2416	0.2598	0.2788	0.2816	0.2806	0.2955	0.3159	0.273	6.82	0.999	1.00	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.2961	0.3028	0.2757	0.2922	0.2980	0.3014	0.2951	0.3090	-----	0.296	6.89	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.0470	1.0755	0.9996	1.0490	1.0627	1.0544	1.0167	1.0556	1.6962	1.12	6.95	0.999	0.999	20	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4019	0.3916	0.3841	0.3984	0.4122	0.4073	0.3911	0.3987	0.5999	0.421	6.99	0.999	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1664	0.1811	0.1564	0.1684	0.1698	0.1708	0.1669	0.1756	-----	0.169	7.04	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1028	0.0763	0.0903	0.0990	0.1078	0.1095	0.1092	0.1134	-----	0.101	7.26	0.999	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2790	0.2360	0.2456	0.2686	0.2917	0.2961	0.2962	0.3115	-----	0.278	7.35	0.999	1.00	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6944	0.6771	0.6494	0.6875	0.7097	0.7020	0.6815	0.7064	-----	0.689	7.50	0.999	0.999	2.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6359	0.6332	0.5994	0.6464	0.6485	0.6492	0.6300	0.6543	-----	0.637	7.58	0.999	0.999	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6646	0.6552	0.6244	0.6640	0.6791	0.6756	0.6562	0.6804	-----	0.662	7.50	0.999	0.999	2.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.8181	0.8439	0.7751	0.8068	0.8353	0.8250	0.7981	0.8291	-----	0.816	7.87	0.999	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.6260	0.6195	0.5745	0.6187	0.6385	0.6449	0.6256	0.6543	-----	0.625	7.62	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Avg Rsd: 9.845

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121003 0069

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3487	0.2175	0.2510	0.2846	0.3547	0.3672	0.3633	0.3825	-----	0.321	7.61	0.999	0.999	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3951	0.3254	0.3304	0.3732	0.4680	0.4450	0.4280	0.4408	-----	0.401	7.71	0.998	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4129	0.3291	0.3665	0.3779	0.4389	0.4465	0.4444	0.4589	-----	0.409	7.74	0.999	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4618	1.5140	1.3749	1.4569	1.4905	1.5099	1.4993	1.5684	-----	1.48	7.78	0.999	1.00	3.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2532	1.2243	1.1694	1.2342	1.2757	1.2716	1.2471	1.3053	-----	1.25	7.90	1.00	1.00	3.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	-----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	-----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8957	0.8725	0.8277	0.8857	0.9200	0.9223	0.8954	0.9455	-----	0.896	7.96	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.4092	0.2887	0.3381	0.3846	0.4465	0.4466	0.4453	0.4696	-----	0.404	7.97	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5229	0.4865	0.4837	0.5100	0.5299	0.5411	0.5265	0.5415	-----	0.518	8.16	1.00	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	2.0049	1.8122	1.7868	1.9733	2.0282	2.0438	1.9827	2.0551	-----	1.96	8.26	1.00	1.00	5.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3643	1.3293	1.2827	1.3547	1.4004	1.4241	1.3904	1.4616	-----	1.38	8.12	0.999	0.999	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Qua	0.2782	0.1388	0.2329	0.2784	0.3131	0.3074	0.2911	0.2979	-----	0.267	8.18	0.998	0.999	22	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2908	1.2738	1.2124	1.2642	1.3286	1.3155	1.2716	1.3292	-----	1.29	8.41	0.999	0.999	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3201	0.1950	0.2774	0.3205	0.3632	0.3617	0.3575	0.3700	-----	0.321	8.33	0.999	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0869	-----	0.0451	0.0618	0.1087	0.1195	0.1271	0.1374	-----	0.0981	8.42	0.990	0.999	35	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7827	1.7455	1.6620	1.7503	1.8030	1.7994	1.7598	1.8414	2.7555	1.88	8.57	0.999	0.999	18	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3137	0.1515	0.2380	0.3005	0.3764	0.3932	0.3922	0.4181	-----	0.323	8.54	0.997	0.999	28	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2423	0.0971	0.1858	0.2265	0.2770	0.2835	0.2825	0.2919	-----	0.236	8.45	0.997	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3371	0.2342	0.2888	0.3203	0.3628	0.3754	0.3688	0.3905	-----	0.335	8.67	0.998	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4784	1.3492	1.3467	1.4529	1.5101	1.5068	1.4451	1.5090	-----	1.45	8.90	0.999	0.999	4.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6835	0.6653	0.6452	0.6744	0.7039	0.7095	0.6878	0.7234	-----	0.687	8.88	0.999	1.00	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3517	1.2321	1.2382	1.3373	1.3846	1.3999	1.3726	1.4466	-----	1.35	8.75	0.999	0.999	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3794	0.2108	0.2963	0.3488	0.4084	0.4144	0.4054	0.4252	-----	0.361	8.90	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3785	0.2738	0.3162	0.3638	0.3982	0.4039	0.4031	0.4274	-----	0.371	9.52	0.998	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0667	-----	0.0384	0.0522	0.0847	0.0942	0.0973	0.1028	-----	0.0767	8.92	0.996	0.999	32	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6667	0.6137	0.6067	0.6608	0.6785	0.6906	0.6588	0.6918	-----	0.659	9.00	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0970	0.0638	0.0758	0.0921	0.1065	0.1096	0.1083	0.1145	-----	0.0960	9.12	0.998	0.999	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8028	0.7355	0.7308	0.7920	0.8132	0.8254	0.7892	0.9078	-----	0.800	9.04	0.996	0.998	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2120	0.1905	0.1888	0.2081	0.2178	0.2263	0.2184	0.2324	-----	0.212	9.38	0.998	0.999	7.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2245	0.2244	0.2147	0.2256	0.2310	0.2348	0.2274	0.2413	-----	0.228	9.44	0.999	0.999	3.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4526	0.3055	0.3705	0.4318	0.4571	0.4645	0.4379	0.4491	-----	0.421	9.71	0.999	0.999	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1263	-----	0.0853	0.1072	0.1391	0.1479	0.1477	0.1591	-----	0.130	9.64	0.997	0.999	20	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1071	1.1074	1.0299	1.1076	1.1353	1.1443	1.0920	1.1436	-----	1.11	9.88	0.999	0.999	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1346	1.0159	1.0256	1.1238	1.1722	1.1868	1.1336	1.1875	-----	1.12	9.94	0.999	0.999	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0534	0.9433	0.9530	1.0382	1.0852	1.1119	1.0591	1.1128	-----	1.04	10.11	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2114	0.8511	0.9817	1.1298	1.2483	1.2889	1.2345	1.3030	1.0518	1.14	10.48	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1959	0.9746	1.0118	1.1427	1.2390	1.2665	1.2179	1.2875	-----	1.17	11.22	0.999	0.999	10	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3132	1.1788	1.1981	1.2929	1.3442	1.3431	1.2920	1.3431	-----	1.29	11.49	0.999	0.999	5.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.8253	0.4771	0.6651	0.7903	0.8780	0.8544	0.7833	0.7829	-----	0.757	11.37	0.997	0.999	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6634	0.6183	0.6068	0.6496	0.6918	0.6974	0.6818	0.7365	-----	0.668	11.67	0.997	0.998	6.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.845

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121003 0070

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2581	0.2208	0.2294	0.2433	0.2702	0.2731	0.2697	0.2863	-----	0.256	11.60	0.998	0.999	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4522	0.3175	0.3732	0.4153	0.4680	0.4770	0.4645	0.4853	-----	0.432	12.00	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5453	0.3020	0.4116	0.4853	0.5681	0.5833	0.5740	0.6049	-----	0.509	12.25	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Qua	0.4090	0.2028	0.2947	0.3479	0.4261	0.4307	0.4170	0.4371	-----	0.371	12.36	0.999	0.999	23		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4707	0.3390	0.4080	0.4666	0.5043	0.5014	0.4845	0.4970	-----	0.459	12.88	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2591	1.2310	1.1698	1.2516	1.2936	1.2988	1.2576	1.3003	-----	1.26	12.91	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.2559	1.2566	1.1720	1.2439	1.2635	1.2542	1.1614	1.2167	-----	1.23	12.95	0.998	0.998	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.8253	0.4720	0.6343	0.7437	0.8454	0.8517	0.8063	0.8387	-----	0.752	12.95	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1854	0.4944	0.7883	0.9702	1.2565	1.3146	1.2879	1.3756	-----	1.08	13.70	0.998	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1382	0.9772	1.0034	1.1964	1.1841	1.1931	1.1967	1.3067	-----	1.15	14.13	0.996	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1500	1.0463	1.0559	1.0442	1.1920	1.1748	1.1730	1.1903	-----	1.13	14.16	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1147	0.8795	0.9429	1.0377	1.1501	1.1895	1.1504	1.2288	-----	1.09	14.50	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2675	0.9839	1.0523	1.1561	1.3126	1.3716	1.3462	1.4405	-----	1.24	15.94	0.998	0.999	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0392	0.8025	0.8707	0.9504	1.0752	1.1191	1.1030	1.1768	-----	1.02	15.97	0.998	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0437	0.8741	0.9013	0.9750	1.0721	1.1133	1.0879	1.1694	-----	1.03	16.34	0.998	0.999	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.845
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M88951.D	CAL BNA@50PPM	12/20/21 14:31	2	10M88944.D	CAL BNA@2PPM	12/20/21 11:43
3	10M88943.D	CAL BNA@10PPM	12/20/21 11:21	4	10M88949.D	CAL BNA@20PPM	12/20/21 13:46
5	10M88948.D	CAL BNA@80PPM	12/20/21 13:24	6	10M88947.D	CAL BNA@120PPM	12/20/21 13:01
7	10M88946.D	CAL BNA@160PPM	12/20/21 12:39	8	10M88945.D	CAL BNA@196PPM	12/20/21 12:17
9	10M88950.D	CAL BNA@0.5PPM	12/20/21 14:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Ava	0.8866	1.0548	0.9928	0.9534	0.8970	0.8953	0.8748	0.9270	1.1375	0.958	2.63	0.999	0.999	9.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Ava	2.0641	2.0348	1.8688	2.0241	2.0552	2.0888	2.0778	2.1677	-----	2.05	3.08	0.999	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Ava	1.4064	1.4185	1.3413	1.3972	1.4358	1.4543	1.4398	1.5016	-----	1.42	3.03	0.999	1.00	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Ava	2.6330	2.2267	2.4533	2.6548	2.6984	2.7192	2.6707	2.7225	-----	2.60	4.60	1.00	1.00	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Ava	1.7753	1.9398	1.7186	1.8067	1.7999	1.7741	1.7379	1.7564	-----	1.79	5.43	1.00	1.00	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Ava	3.4610	3.6822	3.3010	3.5360	3.4927	3.5150	3.4091	3.4780	3.6512	3.50	5.52	1.00	1.00	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Ava	0.8099	0.8995	0.7780	0.8255	0.8327	0.8267	0.8159	0.8088	-----	0.825	5.56	1.00	1.00	4.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Ava	2.2816	2.6393	2.2146	2.3440	2.2945	2.2590	2.1787	2.1816	2.4659	2.32	5.58	0.999	1.00	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Ava	3.1842	2.7317	3.0392	3.2211	3.2449	3.2127	3.0799	3.0742	-----	3.10	5.48	0.999	1.00	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Ava	3.1898	3.4297	3.0776	3.2422	3.2271	3.1837	3.0710	3.0410	-----	3.18	5.49	0.999	1.00	3.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Ava	2.5244	2.5813	2.4012	2.6027	2.5973	2.5893	2.4924	2.4841	-----	2.53	5.62	0.999	1.00	2.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Ava	2.5556	2.8387	2.5591	2.6040	2.5126	2.4328	2.2937	2.2830	-----	2.51	5.66	0.998	1.00	7.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Ava	2.7356	3.1386	2.6706	2.8705	2.8060	2.7702	2.6760	2.6551	-----	2.79	5.75	0.999	1.00	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Ava	1.4772	1.6736	1.4245	1.4526	1.4238	1.4262	1.4099	1.4409	-----	1.47	5.82	1.00	1.00	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Ava	1.3971	1.5594	1.3354	1.3760	1.3531	1.3634	1.3331	1.3743	-----	1.39	5.94	1.00	1.00	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Ava	0.8440	0.8334	0.7812	0.8273	0.8355	0.8417	0.8347	0.8637	-----	0.833	5.91	1.00	1.00	2.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Ava	1.6639	1.9012	1.6348	1.6300	1.5605	1.5520	1.5357	1.5788	-----	1.63	6.02	1.00	1.00	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Ava	1.1613	1.1516	1.1052	1.1442	1.1221	1.1466	1.1311	1.1689	1.2437	1.15	6.00	1.00	1.00	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Ava	1.5298	1.8159	1.5342	1.5402	1.4629	1.4071	1.3562	1.3454	-----	1.50	6.13	0.998	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Ava	0.5143	0.5083	0.4763	0.5076	0.5075	0.5074	0.5059	0.5245	-----	0.507	6.21	0.999	1.00	2.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Ava	0.7936	0.8752	0.7835	0.8082	0.7583	0.7348	0.7231	0.7324	0.8176	0.781	6.13	0.999	1.00	6.3	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Ava	1.1767	1.1516	1.1058	1.1804	1.1369	1.0809	1.0362	1.0071	1.1289	1.11	6.12	0.997	1.00	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Ava	0.1705	0.1226	0.1487	0.1659	0.1762	0.1810	0.1801	0.1828	-----	0.166	6.25	1.00	1.00	12		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Ava	0.2877	0.2724	0.2639	0.2793	0.2845	0.2845	0.2814	0.2848	-----	0.280	6.26	1.00	1.00	2.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Ava	0.5655	0.5898	0.5457	0.5671	0.5528	0.5538	0.5435	0.5524	-----	0.559	6.45	1.00	1.00	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Ava	0.1534	0.1009	0.1142	0.1447	0.1601	0.1670	0.1641	0.1661	-----	0.146	6.51	1.00	1.00	17	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Ava	0.3049	0.2886	0.2904	0.3061	0.2991	0.2988	0.2939	0.2964	0.2878	0.296	6.53	1.00	1.00	2.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1437	-----	0.0547	0.1303	0.1787	0.2007	0.1980	0.2002	-----	0.158	6.60	0.998	0.998	34		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Ava	0.3399	0.3670	0.3308	0.3430	0.3287	0.3262	0.3188	0.3185	-----	0.334	6.61	1.00	1.00	4.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Ava	0.2632	0.2406	0.2409	0.2619	0.2628	0.2651	0.2580	0.2602	0.2206	0.253	6.69	1.00	1.00	6.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Ava	0.2873	0.3187	0.2777	0.2902	0.2810	0.2826	0.2766	0.2755	-----	0.286	6.76	1.00	1.00	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Ava	0.9833	1.1131	0.9726	1.0014	0.9600	0.9536	0.9128	0.8948	1.1589	0.995	6.82	0.999	1.00	8.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Ava	0.3866	0.4043	0.3684	0.3885	0.3765	0.3710	0.3525	0.3492	0.3991	0.377	6.85	0.998	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Ava	0.1481	0.1610	0.1432	0.1489	0.1501	0.1510	0.1476	0.1479	-----	0.150	6.90	1.00	1.00	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Ava	0.0972	0.0723	0.0781	0.0948	0.0984	0.1007	0.1079	0.1099	-----	0.0950	7.12	0.998	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Ava	0.2511	0.2079	0.2219	0.2487	0.2524	0.2554	0.2537	0.2536	-----	0.243	7.21	1.00	1.00	7.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Ava	0.6308	0.6955	0.6079	0.6358	0.6131	0.6012	0.5783	0.5670	-----	0.616	7.35	0.998	1.00	6.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Ava	0.6179	0.6577	0.5952	0.6169	0.5943	0.5870	0.5660	0.5511	-----	0.598	7.43	0.998	1.00	5.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Ava	0.6212	0.6766	0.5986	0.6224	0.6006	0.5909	0.5726	0.5602	-----	0.605	7.35	0.999	1.00	5.9		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Ava	0.7674	0.8539	0.7374	0.7758	0.7530	0.7425	0.7084	0.6936	-----	0.754	7.72	0.998	1.00	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Ava	0.5587	0.6331	0.5289	0.5495	0.5423	0.5422	0.5246	0.5283	-----	0.551	7.48	1.00	1.00	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.478

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M88951.D	CAL BNA@50PPM	12/20/21 14:31	2	10M88944.D	CAL BNA@2PPM	12/20/21 11:43
3	10M88943.D	CAL BNA@10PPM	12/20/21 11:21	4	10M88949.D	CAL BNA@20PPM	12/20/21 13:46
5	10M88948.D	CAL BNA@80PPM	12/20/21 13:24	6	10M88947.D	CAL BNA@120PPM	12/20/21 13:01
7	10M88946.D	CAL BNA@160PPM	12/20/21 12:39	8	10M88945.D	CAL BNA@196PPM	12/20/21 12:17
9	10M88950.D	CAL BNA@0.5PPM	12/20/21 14:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3004	0.2087	0.2332	0.2766	0.3097	0.3182	0.3122	0.3135	-----	0.284	7.47	0.999	0.999	15	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3686	0.2927	0.3187	0.3622	0.3664	0.3732	0.3671	0.3792	-----	0.354	7.56	1.00	1.00	8.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3938	0.3036	0.3430	0.3767	0.3938	0.4029	0.4014	0.4082	-----	0.378	7.60	1.00	1.00	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.6326	1.5279	1.5334	1.6118	1.6056	1.6212	1.5957	1.6218	-----	1.59	7.63	1.00	1.00	2.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1652	1.2783	1.1330	1.1550	1.1307	1.1377	1.1053	1.1120	-----	1.15	7.75	1.00	1.00	4.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9633	1.0473	0.9431	0.9717	0.9186	0.8744	0.8195	0.7902	-----	0.916	8.02	0.995	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9633	1.0473	0.9431	0.9717	0.9186	0.8744	0.8195	0.7902	-----	0.916	8.02	0.995	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8312	0.9220	0.7981	0.8099	0.7950	0.8034	0.7779	0.7841	-----	0.815	7.80	1.00	1.00	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3422	0.2429	0.2781	0.3253	0.3396	0.3452	0.3393	0.3501	-----	0.320	7.82	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4710	0.5298	0.4525	0.4725	0.4546	0.4519	0.4299	0.4149	-----	0.460	8.01	0.997	1.00	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8939	1.9886	1.8104	1.9059	1.8367	1.8183	1.7747	1.7796	-----	1.85	8.10	1.00	1.00	4.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2771	1.3844	1.2252	1.2623	1.2500	1.2536	1.2298	1.2444	-----	1.27	7.97	1.00	1.00	4.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2859	0.2129	0.2500	0.2835	0.2786	0.2705	0.2595	0.2553	-----	0.262	8.02	0.998	1.00	9.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1753	1.2997	1.1226	1.1781	1.1301	1.1108	1.0691	1.0719	-----	1.14	8.25	0.999	1.00	6.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3387	0.2314	0.2778	0.3255	0.3384	0.3407	0.3377	0.3378	-----	0.316	8.17	1.00	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0934	-----	0.0356	0.0640	0.1183	0.1370	0.1405	0.1445	-----	0.105	8.26	0.997	0.998	40	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6678	1.8360	1.6111	1.6732	1.6149	1.6054	1.5558	1.5559	1.7403	1.65	8.41	0.999	1.00	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3767	0.2050	0.2764	0.3519	0.3826	0.3947	0.3901	0.4033	-----	0.348	8.38	0.999	1.00	20	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2199	0.0928	0.1567	0.1784	0.2227	0.2312	0.2299	0.2372	-----	0.196	8.29	0.999	1.00	26	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3139	0.2216	0.2655	0.3048	0.3141	0.3203	0.3119	0.3195	-----	0.296	8.51	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3356	1.4509	1.2817	1.3414	1.2972	1.2695	1.2092	1.2044	-----	1.30	8.73	0.999	1.00	6.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6245	0.6617	0.5863	0.6188	0.6130	0.6122	0.5909	0.5885	-----	0.612	8.72	0.999	1.00	4.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2434	1.3181	1.1732	1.2392	1.2156	1.2360	1.2227	1.2359	-----	1.24	8.60	1.00	1.00	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3589	0.2417	0.2974	0.3451	0.3647	0.3701	0.3669	0.3761	-----	0.340	8.74	1.00	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3531	0.3176	0.3079	0.3484	0.3529	0.3591	0.3537	0.3612	-----	0.344	9.36	1.00	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0868	-----	0.0389	0.0628	0.0994	0.1075	0.1096	0.1137	-----	0.0884	8.76	0.999	1.00	32	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6314	0.6306	0.6066	0.6203	0.6051	0.6081	0.5888	0.5929	-----	0.611	8.83	1.00	1.00	2.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1074	0.0540	0.0847	0.1010	0.1085	0.1146	0.1159	0.1188	-----	0.101	8.96	0.999	1.00	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6331	0.6733	0.6187	0.6254	0.6071	0.6162	0.6001	0.6602	-----	0.629	8.87	0.998	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1887	0.1836	0.1781	0.1878	0.1842	0.1896	0.1873	0.1896	-----	0.186	9.21	1.00	1.00	2.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.1937	0.2173	0.1851	0.1904	0.1915	0.1952	0.1928	0.1989	-----	0.196	9.26	0.999	1.00	4.9	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4318	0.4217	0.4178	0.4311	0.4077	0.4014	0.3835	0.3772	-----	0.409	9.54	0.998	1.00	5.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1242	-----	0.0819	0.1064	0.1259	0.1305	0.1312	0.1398	-----	0.120	9.46	0.998	0.999	16	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0404	1.1675	1.0171	1.0335	0.9919	0.9912	0.9546	0.9652	-----	1.02	9.71	0.999	1.00	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0691	1.1237	1.0266	1.0638	1.0181	1.0258	0.9880	0.9855	-----	1.04	9.76	0.999	1.00	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0009	1.0357	0.9625	0.9997	0.9635	0.9741	0.9473	0.9564	-----	0.980	9.93	1.00	1.00	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1316	1.0121	1.0218	1.1109	1.1080	1.1226	1.0973	1.1037	0.8551	1.06	10.31	1.00	1.00	8.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1154	1.0772	1.0352	1.0866	1.0667	1.0685	1.0428	1.0312	-----	1.07	11.03	0.999	1.00	2.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3480	1.3722	1.2990	1.3623	1.3219	1.3447	1.2927	1.3141	-----	1.33	11.30	1.00	1.00	2.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.8578	0.5143	0.6733	0.8239	0.8669	0.8878	0.8454	0.8510	-----	0.790	11.19	0.999	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7831	0.6815	0.7098	0.7693	0.7831	0.8052	0.8000	0.8565	-----	0.774	11.48	0.999	1.00	7.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.478
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121003 0073

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M88951.D	CAL BNA@50PPM	12/20/21 14:31	2	10M88944.D	CAL BNA@2PPM	12/20/21 11:43
3	10M88943.D	CAL BNA@10PPM	12/20/21 11:21	4	10M88949.D	CAL BNA@20PPM	12/20/21 13:46
5	10M88948.D	CAL BNA@80PPM	12/20/21 13:24	6	10M88947.D	CAL BNA@120PPM	12/20/21 13:01
7	10M88946.D	CAL BNA@160PPM	12/20/21 12:39	8	10M88945.D	CAL BNA@196PPM	12/20/21 12:17
9	10M88950.D	CAL BNA@0.5PPM	12/20/21 14:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2435	0.2419	0.2286	0.2380	0.2412	0.2517	0.2500	0.2602	-----	0.244	11.42	0.999	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4368	0.3942	0.3810	0.4295	0.4329	0.4480	0.4400	0.4516	-----	0.427	11.81	1.00	1.00	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5797	0.4527	0.4785	0.5518	0.5744	0.5994	0.5860	0.6068	-----	0.554	12.07	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3531	0.2019	0.2511	0.3287	0.3596	0.3696	0.3558	0.3634	-----	0.323	12.17	0.999	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4509	0.3305	0.3917	0.4457	0.4541	0.4624	0.4449	0.4476	-----	0.429	12.69	1.00	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1934	1.3084	1.1713	1.1974	1.1623	1.1758	1.1591	1.1972	-----	1.20	12.71	1.00	1.00	4.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1214	1.2375	1.0703	1.1451	1.0763	1.0640	1.0255	1.0398	-----	1.10	12.76	0.999	1.00	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8022	0.6846	0.7111	0.7985	0.8005	0.7893	0.7673	0.7663	-----	0.765	12.76	0.999	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.2472	0.9219	1.0199	1.1955	1.2286	1.2664	1.1994	1.2197	-----	1.16	13.51	0.999	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0959	1.0244	1.0127	1.0569	1.0170	0.9910	0.9853	1.0142	-----	1.02	13.92	0.999	0.999	3.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0606	1.0922	0.9523	1.0423	0.9765	0.9739	0.8746	0.9917	-----	0.996	13.95	0.993	0.993	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0068	0.9645	0.9232	0.9938	0.9721	0.9986	0.9652	0.9962	-----	0.978	14.27	0.999	0.999	2.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.0799	1.0215	0.9678	1.0411	1.0474	1.0932	1.0495	1.1018	-----	1.05	15.63	0.999	0.999	4.1	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9395	0.8949	0.8415	0.9155	0.9234	0.9697	0.9345	0.9737	-----	0.924	15.66	0.999	0.999	4.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9293	0.9019	0.8603	0.9064	0.9093	0.9535	0.9379	0.9802	-----	0.922	16.00	0.999	1.00	4.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.478
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M88968.D Instrument: GCMS 10

Cont Calibration Date/Time 12/22/2021 8:15:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.59	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.62	47.21	50	**		0.958	0.904	5.58	
Pyridine	1	0		3.07	49.51	50	**		2.048	2.028	0.98	
N-Nitrosodimethylamine	1	0		3.02	50.65	50	**		1.424	1.443	1.29	
2-Fluorophenol	1	0	S	4.60	51.92	50	**		2.597	2.697	3.85	
Benzaldehyde	1	0		5.43	49.94	50	20	0.01	1.789	1.787	0.12	
Aniline	1	0		5.52	50.35	50	**		3.503	3.527	0.69	
Pentachloroethane	1	0		5.56	51.16	50	**	0.05	0.825	0.844	2.33	
bis(2-Chloroethyl)ether	1	0		5.58	50.87	50	20	0.7	2.318	2.358	1.73	
Phenol-d5	1	0	S	5.48	52.61	50	**		3.099	3.260	5.21	
Phenol	1	0		5.49	51.58	50	20	0.8	3.183	3.284	3.17	
2-Chlorophenol	1	0		5.62	51.26	50	20	0.8	2.534	2.598	2.51	
N-Decane	1	0		5.66	51.16	50	**	0.05	2.510	2.568	2.31	
1,3-Dichlorobenzene	1	0		5.75	50.68	50	**		2.790	2.828	1.36	
1,4-Dichlorobenzene-d4	1	0	I	5.80	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.82	50.51	50	20		1.466	1.481	1.01	
1,2-Dichlorobenzene	1	0		5.94	50.53	50	**		1.387	1.401	1.06	
Benzyl alcohol	1	0		5.91	51.01	50	**		0.833	0.849	2.01	
bis(2-chloroisopropyl)ether	1	0		6.02	50.24	50	20	0.01	1.632	1.640	0.47	
2-Methylphenol	1	0		5.99	50.66	50	20	0.7	1.153	1.168	1.32	
Acetophenone	1	0		6.13	51.19	50	20	0.01	1.499	1.535	2.38	
Hexachloroethane	1	0		6.21	51.90	50	20	0.3	0.507	0.526	3.79	
N-Nitroso-di-n-propylamine	1	0		6.13	50.99	50	20	0.5	0.781	0.796	1.97	
3&4-Methylphenol	1	0		6.12	53.57	50	20		1.112	1.191	7.14	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.25	27.30	25	**		0.166	0.181	9.22	
Nitrobenzene	1	0		6.26	53.15	50	20	0.2	0.280	0.297	6.29	
Isophorone	1	0		6.45	51.29	50	20	0.4	0.559	0.573	2.57	
2-Nitrophenol	1	0		6.51	59.04	50	20	0.1	0.146	0.173	18.07	
2,4-Dimethylphenol	1	0		6.53	53.13	50	20	0.2	0.296	0.315	6.26	
Benzoic Acid	1	0		6.59	51.66	50	**		0.158	0.179	3.32	
bis(2-Chloroethoxy)methane	1	0		6.61	52.29	50	20	0.3	0.334	0.349	4.58	
2,4-Dichlorophenol	1	0		6.69	53.98	50	20	0.2	0.253	0.273	7.96	
1,2,4-Trichlorobenzene	1	0		6.76	51.60	50	**		0.286	0.295	3.19	
Naphthalene	1	0		6.82	50.65	50	20	0.7	0.995	1.008	1.30	
4-Chloroaniline	1	0		6.85	52.42	50	20	0.01	0.377	0.396	4.84	
Hexachlorobutadiene	1	0		6.90	51.29	50	20	0.01	0.150	0.154	2.59	
Caprolactam	1	0		7.12	52.56	50	20	0.01	0.095	0.100	5.12	
4-Chloro-3-methylphenol	1	0		7.21	53.05	50	20	0.2	0.243	0.258	6.10	
2-Methylnaphthalene	1	0		7.35	51.86	50	**	0.4	0.616	0.639	3.72	
1-Methylnaphthalene	1	0		7.43	52.21	50	**	0.4	0.598	0.625	4.42	
Methylnaphthalenes	1	0		7.35	104.79	50	**			1.269	109.57	
1,1'-Biphenyl	1	0		7.72	52.28	50	20	0.01	0.754	0.788	4.55	
Acenaphthene-d10	1	0	I	8.22	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.48	51.50	50	20	0.01	0.551	0.567	2.99	
Hexachlorocyclopentadiene	1	0		7.47	54.46	50	20	0.05	0.284	0.309	8.92	
2,4,6-Trichlorophenol	1	0		7.56	54.15	50	20	0.2	0.354	0.383	8.29	
2,4,5-Trichlorophenol	1	0		7.60	46.95	50	20	0.2	0.378	0.355	6.10	
2-Fluorobiphenyl	1	0	S	7.63	26.26	25	**		1.594	1.674	5.03	
2-Chloronaphthalene	1	0		7.75	51.29	50	20	0.8	1.152	1.182	2.58	
1,4-Dimethylnaphthalene	1	0		8.02	53.00	50	**		0.916	0.971	6.01	
Dimethylnaphthalenes	1	0		8.02	53.00	50	20			0.971	6.01	

S-Surrogate Compound I-Internal Standard Compound Page 1 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M88968.D Instrument: GCMS 10

Cont Calibration Date/Time 12/22/2021 8:15:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.80	51.14	50	**		0.815	0.834	2.27	
2-Nitroaniline	1	0		7.82	55.21	50	20	0.01	0.320	0.354	10.42	
Coumarin	1	0		8.01	51.69		**		0.460			
Acenaphthylene	1	0		8.10	52.10	50	20	0.9	1.851	1.929	4.21	
Dimethylphthalate	1	0		7.97	51.03	50	20	0.01	1.266	1.292	2.06	
2,6-Dinitrotoluene	1	0		8.02	56.26	50	20	0.2	0.262	0.295	12.53	
Acenaphthene	1	0		8.25	51.59	50	20	0.9	1.145	1.181	3.17	
3-Nitroaniline	1	0		8.17	55.50	50	20	0.01	0.316	0.351	11.00	
2,4-Dinitrophenol	1	0		8.26	52.23	50	20	0.2	0.105	0.117	4.47	
Dibenzofuran	1	0		8.40	51.24	50	20	0.8	1.651	1.692	2.47	
2,4-Dinitrotoluene	1	0		8.38	51.84	50	20	0.2	0.348	0.390	3.69	
4-Nitrophenol	1	0		8.29	51.70	50	20	0.01	0.196	0.226	3.39	
2,3,4,6-Tetrachlorophenol	1	0		8.51	52.78	50	20	0.01	0.296	0.313	5.56	
Fluorene	1	0		8.73	52.20	50	20	0.9	1.299	1.356	4.39	
4-Chlorophenyl-phenylether	1	0		8.72	51.53	50	20	0.4	0.612	0.631	3.06	
Diethylphthalate	1	0		8.60	51.38	50	20	0.01	1.236	1.270	2.76	
4-Nitroaniline	1	0		8.74	54.23	50	20	0.01	0.340	0.369	8.46	
Atrazine	1	0		9.36	51.99	50	20	0.01	0.344	0.358	3.99	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.76	53.18	50	20	0.01	0.088	0.100	6.35	
n-Nitrosodiphenylamine	1	0		8.83	52.32	50	20	0.01	0.611	0.639	4.64	
2,4,6-Tribromophenol	1	0	S	8.96	51.29	50	**		0.101	0.110	2.58	
1,2-Diphenylhydrazine	1	0		8.87	55.88	50	**		0.629	0.703	11.76	
4-Bromophenyl-phenylether	1	0		9.21	52.07	50	20	0.1	0.186	0.194	4.14	
Hexachlorobenzene	1	0		9.27	49.96	50	20	0.1	0.196	0.196	0.08	
N-Octadecane	1	0		9.54	53.21	50	**	0.05	0.409	0.435	6.43	
Pentachlorophenol	1	0		9.46	54.79	50	20	0.05	0.120	0.133	9.58	
Phenanthrene	1	0		9.70	52.00	50	20	0.7	1.020	1.061	4.00	
Anthracene	1	0		9.76	52.19	50	20	0.7	1.038	1.083	4.38	
Carbazole	1	0		9.93	51.95	50	20	0.01	0.980	1.018	3.91	
Di-n-butylphthalate	1	0		10.31	54.21	50	20	0.01	1.063	1.152	8.42	
Fluoranthene	1	0		11.03	52.12	50	20	0.6	1.066	1.111	4.25	
Chrysene-d12	1	0	I	12.73	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.30	52.47	50	20	0.6	1.332	1.398	4.94	
Benzidine	1	0		11.19	53.80	50	**		0.790	0.850	7.60	
Terphenyl-d14	1	0	S	11.48	26.24	25	**		0.774	0.812	4.97	
4,4'-DDE	1	0		11.42	51.67		**		0.244			
4,4'-DDD	1	0		11.81	52.68		**		0.427			
Butylbenzylphthalate	1	0		12.07	54.22	50	20	0.01	0.554	0.600	8.44	
4,4'-DDT	1	0		12.17	59.96		**		0.323			
3,3'-Dichlorobenzidine	1	0		12.69	55.73	50	20	0.01	0.429	0.478	11.45	
Benzo[a]anthracene	1	0		12.71	51.27	50	20	0.8	1.196	1.226	2.55	
Chrysene	1	0		12.76	52.30	50	20	0.7	1.098	1.148	4.60	
bis(2-Ethylhexyl)phthalate	1	0		12.76	54.59	50	20	0.01	0.765	0.835	9.18	
Perylene-d12	1	0	I	14.34	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.51	55.30	50	20	0.01	1.162	1.286	10.60	
Benzo[b]fluoranthene	1	0		13.92	50.90	50	20	0.7	1.025	1.043	1.80	
Benzo[k]fluoranthene	1	0		13.96	55.53	50	20	0.7	0.996	1.106	11.07	
Benzo[a]pyrene	1	0		14.28	53.23	50	20	0.7	0.978	1.041	6.46	
Indeno[1,2,3-cd]pyrene	1	0		15.64	52.44	50	20	0.5	1.050	1.102	4.89	
Dibenzo[a,h]anthracene	1	0		15.66	52.73	50	20	0.4	0.924	0.975	5.45	
Benzo[g,h,i]perylene	1	0		16.00	52.72	50	20	0.5	0.922	0.973	5.44	

S-Surrogate Compound I-Internal Standard Compound Page 2 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M88968.D **Instrument:** GCMS 10

Cont Calibration Date/Time 12/22/2021 8:15:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.605	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.916	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110331.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/22/2021 3:22:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.73	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.77	52.14	50	**		1.025	1.068	4.27	
Pyridine	1	0		3.24	56.28	50	**		2.116	2.382	12.56	
N-Nitrosodimethylamine	1	0		3.18	61.53	50	**		1.587	1.953	23.06	
2-Fluorophenol	1	0	S	4.72	58.71	50	**		2.304	2.705	17.41	
Benzaldehyde	1	0		5.55	65.95	50	20	0.01	1.956	2.580	31.91	C1
Aniline	1	0		5.64	58.34	50	**		4.027	4.338	16.68	
Pentachloroethane	1	0		5.68	56.60	50	**	0.05	0.840	0.951	13.20	
bis(2-Chloroethyl)ether	1	0		5.70	56.87	50	20	0.7	2.670	3.037	13.74	
Phenol-d5	1	0	S	5.60	60.38	50	**		2.952	3.564	20.76	
Phenol	1	0		5.61	59.77	50	20	0.8	3.502	4.186	19.54	
2-Chlorophenol	1	0		5.74	58.12	50	20	0.8	2.476	2.878	16.24	
N-Decane	1	0		5.77	62.11	50	**	0.05	2.438	3.029	24.22	
1,3-Dichlorobenzene	1	0		5.87	56.38	50	**		2.685	3.028	12.77	
1,4-Dichlorobenzene-d4	1	0	I	5.92	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.93	52.03	50	20		1.541	1.603	4.07	
1,2-Dichlorobenzene	1	0		6.05	52.83	50	**		1.444	1.526	5.65	
Benzyl alcohol	1	0		6.03	56.84	50	**		0.931	1.058	13.68	
bis(2-chloroisopropyl)ether	1	0		6.14	60.90	50	20	0.01	1.556	1.895	21.81	C1
2-Methylphenol	1	0		6.12	54.28	50	20	0.7	1.346	1.462	8.56	
Acetophenone	1	0		6.24	56.31	50	20	0.01	1.850	2.084	12.63	
Hexachloroethane	1	0		6.33	54.39	50	20	0.3	0.563	0.613	8.78	
N-Nitroso-di-n-propylamine	1	0		6.24	57.24	50	20	0.5	1.064	1.218	14.48	
3&4-Methylphenol	1	0		6.24	54.17	50	20		1.385	1.501	8.34	
Naphthalene-d8	1	0	I	6.92	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.37	30.42	25	**		0.137	0.170	21.68	
Nitrobenzene	1	0		6.38	59.35	50	20	0.2	0.339	0.414	18.69	
Isophorone	1	0		6.57	58.63	50	20	0.4	0.680	0.797	17.25	
2-Nitrophenol	1	0		6.63	61.07	50	20	0.1	0.147	0.183	22.14	C1
2,4-Dimethylphenol	1	0		6.65	53.05	50	20	0.2	0.353	0.374	6.10	
Benzoic Acid	1	0		6.72	53.59	50	**		0.199	0.226	7.19	
bis(2-Chloroethoxy)methane	1	0		6.73	55.07	50	20	0.3	0.408	0.450	10.14	
2,4-Dichlorophenol	1	0		6.81	53.46	50	20	0.2	0.273	0.292	6.92	
1,2,4-Trichlorobenzene	1	0		6.88	51.45	50	**		0.296	0.305	2.90	
Naphthalene	1	0		6.94	53.41	50	20	0.7	1.117	1.116	6.83	
4-Chloroaniline	1	0		6.98	48.98	50	20	0.01	0.421	0.412	2.04	
Hexachlorobutadiene	1	0		7.02	51.51	50	20	0.01	0.169	0.175	3.01	
Caprolactam	1	0		7.25	60.52	50	20	0.01	0.101	0.122	21.04	C1
4-Chloro-3-methylphenol	1	0		7.35	57.79	50	20	0.2	0.278	0.321	15.59	
2-Methylnaphthalene	1	0		7.48	53.74	50	**	0.4	0.689	0.740	7.49	
1-Methylnaphthalene	1	0		7.57	53.69	50	**	0.4	0.637	0.684	7.38	
Methylnaphthalenes	1	0		7.48	107.94	50	**			1.430	115.88	
1,1'-Biphenyl	1	0		7.86	53.90	50	20	0.01	0.816	0.880	7.80	
Acenaphthene-d10	1	0	I	8.37	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.61	49.80	50	20	0.01	0.625	0.623	0.41	
Hexachlorocyclopentadiene	1	0		7.60	17.49	50	20	0.05	0.321	0.117	65.02	C1
2,4,6-Trichlorophenol	1	0		7.71	49.52	50	20	0.2	0.401	0.397	0.95	
2,4,5-Trichlorophenol	1	0		7.74	53.49	50	20	0.2	0.409	0.438	6.98	
2-Fluorobiphenyl	1	0	S	7.77	26.02	25	**		1.485	1.545	4.09	
2-Chloronaphthalene	1	0		7.89	51.33	50	20	0.8	1.248	1.281	2.66	
1,4-Dimethylnaphthalene	1	0		8.17	51.69	50	**		1.055	1.091	3.38	
Dimethylnaphthalenes	1	0		8.17	51.69	50	20			1.091	3.38	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110331.D Instrument: GCMS 9

Cont Calibration Date/Time 12/22/2021 3:22:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.94	51.93	50	**		0.896	0.930	3.87	
2-Nitroaniline	1	0		7.97	60.04	50	20	0.01	0.404	0.509	20.08	
Coumarin	1	0		8.15	52.44		**		0.518			
Acenaphthylene	1	0		8.25	52.91	50	20	0.9	1.961	2.075	5.82	
Dimethylphthalate	1	0		8.11	53.11	50	20	0.01	1.376	1.461	6.21	
2,6-Dinitrotoluene	1	0		8.17	52.59	50	20	0.2	0.267	0.317	5.18	
Acenaphthene	1	0		8.40	52.17	50	20	0.9	1.286	1.342	4.35	
3-Nitroaniline	1	0		8.32	58.75	50	20	0.01	0.321	0.377	17.51	
2,4-Dinitrophenol	1	0		8.42	60.84	50	20	0.2	0.098	0.113	21.68	C1
Dibenzofuran	1	0		8.56	49.15	50	20	0.8	1.878	1.846	1.69	
2,4-Dinitrotoluene	1	0		8.54	58.08	50	20	0.2	0.323	0.409	16.15	
4-Nitrophenol	1	0		8.45	59.66	50	20	0.01	0.236	0.302	19.33	
2,3,4,6-Tetrachlorophenol	1	0		8.67	55.24	50	20	0.01	0.335	0.370	10.48	
Fluorene	1	0		8.88	52.56	50	20	0.9	1.450	1.524	5.13	
4-Chlorophenyl-phenylether	1	0		8.87	51.21	50	20	0.4	0.687	0.703	2.41	
Diethylphthalate	1	0		8.74	53.31	50	20	0.01	1.345	1.434	6.61	
4-Nitroaniline	1	0		8.90	52.50	50	20	0.01	0.361	0.411	4.99	
Atrazine	1	0		9.52	55.03	50	20	0.01	0.371	0.408	10.06	
Phenanthrene-d10	1	0	I	9.85	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.92	58.30	50	20	0.01	0.077	0.092	16.60	
n-Nitrosodiphenylamine	1	0		8.98	52.10	50	20	0.01	0.659	0.686	4.20	
2,4,6-Tribromophenol	1	0	S	9.12	54.17	50	**		0.096	0.110	8.35	
1,2-Diphenylhydrazine	1	0		9.03	60.99	50	**		0.800	0.975	21.98	
4-Bromophenyl-phenylether	1	0		9.37	52.38	50	20	0.1	0.212	0.222	4.76	
Hexachlorobenzene	1	0		9.44	50.32	50	20	0.1	0.228	0.229	0.65	
N-Octadecane	1	0		9.69	61.67	50	**	0.05	0.421	0.519	23.33	
Pentachlorophenol	1	0		9.64	50.84	50	20	0.05	0.130	0.128	1.69	
Phenanthrene	1	0		9.88	51.44	50	20	0.7	1.108	1.140	2.88	
Anthracene	1	0		9.94	52.12	50	20	0.7	1.123	1.170	4.23	
Carbazole	1	0		10.11	52.74	50	20	0.01	1.045	1.102	5.47	
Di-n-butylphthalate	1	0		10.48	57.20	50	20	0.01	1.145	1.309	14.41	
Fluoranthene	1	0		11.22	54.42	50	20	0.6	1.167	1.270	8.85	
Chrysene-d12	1	0	I	12.92	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.49	54.91	50	20	0.6	1.288	1.415	9.82	
Benzidine	1	0		11.37	29.69	50	**		0.757	0.499	40.62	
Terphenyl-d14	1	0	S	11.66	27.60	25	**		0.668	0.738	10.39	
4,4'-DDE	1	0		11.60	54.07		**		0.256			
4,4'-DDD	1	0		12.00	57.90		**		0.432			
Butylbenzylphthalate	1	0		12.25	58.41	50	20	0.01	0.509	0.643	16.81	
4,4'-DDT	1	0		12.35	52.01		**		0.371			
3,3'-Dichlorobenzidine	1	0		12.88	55.06	50	20	0.01	0.459	0.505	10.12	
Benzo[a]anthracene	1	0		12.91	51.31	50	20	0.8	1.258	1.291	2.61	
Chrysene	1	0		12.95	49.84	50	20	0.7	1.228	1.224	0.33	
bis(2-Ethylhexyl)phthalate	1	0		12.94	60.10	50	20	0.01	0.752	0.998	20.19	
Perylene-d12	1	0	I	14.57	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.69	59.23	50	20	0.01	1.084	1.431	18.46	
Benzo[b]fluoranthene	1	0		14.13	52.13	50	20	0.7	1.150	1.199	4.26	
Benzo[k]fluoranthene	1	0		14.17	51.85	50	20	0.7	1.128	1.170	3.70	
Benzo[a]pyrene	1	0		14.51	52.58	50	20	0.7	1.087	1.143	5.16	
Indeno[1,2,3-cd]pyrene	1	0		15.96	51.35	50	20	0.5	1.241	1.275	2.69	
Dibenzo[a,h]anthracene	1	0		15.98	51.08	50	20	0.4	1.017	1.039	2.16	
Benzo[g,h,i]perylene	1	0		16.36	51.21	50	20	0.5	1.030	1.055	2.43	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110331.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/22/2021 3:22:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.662	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.055	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109530.D Method: EPA 8270E

Analysis Date/Time: 11/12/21 10:07

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
Eval File Area Limit:	16559-66236		29294-117176		114192-456766		54458-217832		102032-408126		96603-386412		104604-418416	
Eval File Rt Limit:	2.25-3.25		5.43-6.43		6.44-7.44		7.88-8.88		9.35-10.35		12.42-13.42		14.06-15.06	

Data File	Sample#													
9M109530.D	CAL BNA@50PPM	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
9M109531.D	CAL BNA@196PPM	25016	2.74	43177	5.93	171873	6.94	81811	8.38	155085	9.85	151041	12.92	158596	14.56
9M109532.D	CAL BNA@160PPM	27353	2.74	47722	5.92	187885	6.94	90029	8.38	170786	9.85	165121	12.92	175539	14.56
9M109533.D	CAL BNA@120PPM	25881	2.74	45223	5.92	180459	6.94	85911	8.38	159730	9.85	154814	12.92	164815	14.55
9M109534.D	CAL BNA@80PPM	27336	2.74	49171	5.92	195077	6.94	93101	8.38	175374	9.85	167242	12.92	179672	14.55
9M109535.D	CAL BNA@10PPM	23963	2.74	43124	5.92	173483	6.93	84895	8.38	159142	9.85	146568	12.91	157496	14.55
9M109536.D	CAL BNA@2PPM	24360	2.74	44423	5.92	175017	6.93	87263	8.37	163318	9.85	148455	12.91	161765	14.55
9M109537.D	CAL BNA@20PPM	28654	2.74	52105	5.92	206203	6.93	99213	8.38	184782	9.85	174287	12.91	186634	14.55
9M109538.D	CAL BNA@0.5PPM	24368	2.74	44096	5.92	177756	6.93	86981	8.37	162760	9.85	149224	12.91	162376	14.55
9M109539.D	ICV BNA@50PPM	27449	2.74	47884	5.92	189949	6.93	91839	8.38	171179	9.85	165497	12.92	174845	14.55

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M88951.D Method: EPA 8270E

Analysis Date/Time: 12/20/21 14:31

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	61545	2.59	116979	5.80	462422	6.80	230893	8.22	428330	9.68	363390	12.73	396176	14.34
Eval File Area Limit:	30772-123090		58490-233958		231211-924844		115446-461786		214165-856660		181695-726780		198088-792352	
Eval File Rt Limit:	2.09-3.09		5.3-6.3		6.3-7.3		7.72-8.72		9.18-10.18		12.23-13.23		13.84-14.84	

Data File	Sample#													
10M88943.D	CAL BNA@10PPM	57964	2.59	112192	5.80	442861	6.80	222463	8.22	408658	9.68	348294	12.72	376875	14.34
10M88944.D	CAL BNA@2PPM	61696	2.60	119532	5.80	473794	6.80	237266	8.22	443389	9.68	369142	12.72	403378	14.34
10M88945.D	CAL BNA@196PPM	57952	2.60	107477	5.80	435608	6.80	216862	8.23	403050	9.69	327565	12.74	382278	14.34
10M88946.D	CAL BNA@160PPM	56472	2.60	108449	5.80	431573	6.80	217773	8.23	404486	9.68	333095	12.73	384471	14.34
10M88947.D	CAL BNA@120PPM	56405	2.60	110805	5.80	436651	6.80	220867	8.23	409718	9.68	337541	12.73	377772	14.34
10M88948.D	CAL BNA@80PPM	55802	2.59	111406	5.80	436603	6.80	220978	8.22	415759	9.68	347198	12.73	385133	14.34
10M88949.D	CAL BNA@20PPM	60438	2.60	120649	5.80	472263	6.80	238451	8.22	443165	9.68	370827	12.73	403380	14.34
10M88950.D	CAL BNA@0.5PPM	58654	2.60	116425	5.80	458329	6.80	235214	8.22	445695	9.68	373946	12.72	409095	14.34
10M88951.D	CAL BNA@50PPM	61545	2.59	116979	5.80	462422	6.80	230893	8.22	428330	9.68	363390	12.73	396176	14.34
10M88952.D	ICV BNA@50PPM	52442	2.60	104719	5.80	409195	6.80	203495	8.22	382069	9.68	322075	12.73	347229	14.34

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M88968.D Method: EPA 8270E

Analysis Date/Time: 12/22/21 08:15

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	58295	2.59	112578	5.80	436822	6.80	219576	8.22	405146	9.68	336864	12.73	363934	14.34
Eval File Area Limit:	29148-116590		56289-225156		218411-873644		109788-439152		202573-810292		168432-673728		181967-727868	
Eval File Rt Limit:	2.09-3.09		5.3-6.3		6.3-7.3		7.72-8.72		9.18-10.18		12.23-13.23		13.84-14.84	

Data File	Sample#													
10M88969.D	OMB95956(MS)	50277	2.58	97982	5.80	374638	6.80	184308	8.22	342078	9.68	280737	12.73	302637	14.34
10M88970.D	OMB95956	48582	2.58	94762	5.80	366627	6.80	178888	8.22	333800	9.68	270633	12.72	289467	14.33
10M88971.D	SMB95963	58398	2.56	107244	5.80	418194	6.80	214689	8.22	404673	9.68	333881	12.72	356329	14.34
10M88972.D	SMB95963(MS)	56814	2.56	98744	5.80	379843	6.80	187308	8.22	350684	9.68	293647	12.73	307789	14.34
10M88973.D	AD27886-014	47530	2.56	91818	5.80	359110	6.80	176471	8.22	331954	9.68	268816	12.72	282002	14.34
10M88974.D	AD27886-028	50729	2.56	97951	5.80	385578	6.80	191744	8.22	353335	9.68	289991	12.72	304334	14.33
10M88975.D	AD27886-042	51441	2.56	102706	5.80	394010	6.80	193758	8.22	356449	9.68	287759	12.72	304098	14.33
10M88976.D	AD27886-013	43266	2.56	86610	5.80	340871	6.80	166867	8.22	312219	9.68	244534	12.72	260614	14.33
10M88977.D	AD27886-027	55285	2.56	108609	5.80	425865	6.80	210820	8.22	387389	9.68	302355	12.72	315889	14.34
10M88978.D	AD27886-041	54283	2.57	109088	5.80	423130	6.80	208941	8.22	379418	9.68	296942	12.73	322149	14.34
10M88979.D	AD27934-001	61981	2.56	124540	5.80	488335	6.80	238967	8.22	438522	9.68	340633	12.73	363367	14.34
10M88980.D	AD27886-014(MS)	51889	2.56	102568	5.80	400694	6.80	200169	8.22	365882	9.68	289249	12.73	305648	14.34
10M88981.D	AD27886-014(MSD)	56203	2.56	108330	5.80	423488	6.80	210904	8.22	389413	9.68	312233	12.73	329404	14.34
10M88982.D	AD27924-006	60406	2.56	121116	5.80	469825	6.80	232052	8.22	431398	9.68	343801	12.73	360341	14.34
10M88983.D	AD27924-008	64426	2.56	128884	5.80	499529	6.80	246765	8.22	460087	9.68	369013	12.72	383289	14.34
10M88984.D	AD27813-005(30X)	58820	2.58	118338	5.80	456897	6.80	225873	8.22	412347	9.68	328035	12.72	344325	14.34
10M88985.D	AD27813-006(30X)	58849	2.60	118739	5.80	458479	6.80	223753	8.22	411499	9.68	329267	12.72	341887	14.34
10M88986.D	SMB95972(MS)	58988	2.57	109726	5.80	418700	6.80	207952	8.22	384397	9.68	308105	12.73	322599	14.34

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1121003 0083

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110331.D Method: EPA 8270E

Analysis Date/Time: 12/22/21 15:22

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	25988	2.73	49845	5.92	203534	6.92	101705	8.37	191889	9.85	174736	12.92	183740	14.57
Eval File Area Limit:	12994-51976		24922-99690		101767-407068		50852-203410		95944-383778		87368-349472		91870-367480	
Eval File Rt Limit:	2.23-3.23		5.42-6.42		6.42-7.42		7.87-8.87		9.35-10.35		12.42-13.42		14.07-15.07	

Data File	Sample#													
9M110330.D	BNA@50PPM	15370	2.73	35387	5.92	145732	6.92	72625	8.37	135911	9.85	120588	12.92	129475	14.57
9M110332.D	AD27983-001	28677	2.71	50894	5.91	205468	6.92	102307	8.37	189124	9.85	156432	12.92	166892	14.57
9M110333.D	AD27844-001	26539	2.72	49097	5.92	197156	6.92	96227	8.37	184568	9.85	156144	12.92	161597	14.57
9M110334.D	AD27822-001(3X)	27564	2.73	50979	5.92	205327	6.92	100619	8.37	181373	9.85	152845	12.92	157753	14.57
9M110335.D	AD27918-001	27361	2.71	50871	5.92	203450	6.92	94167	8.37	146204	9.85	143222	12.92	158971	14.57
9M110336.D	AD27925-002	27250	2.72	51390	5.92	206162	6.92	102641	8.37	188084	9.85	151017	12.92	158027	14.57
9M110337.D	AD27925-004(5X)	28389	2.74	52163	5.92	211798	6.92	103809	8.37	188769	9.85	149258	12.92	155215	14.57
9M110338.D	AD27908-002(3X)	27965	2.74	52220	5.92	208304	6.92	102268	8.37	188072	9.85	147712	12.92	154760	14.57
9M110339.D	AD27908-005(5X)	29492	2.74	54491	5.92	220335	6.92	108105	8.37	193920	9.85	146173	12.92	153186	14.57
9M110340.D	AD27908-004	24068	2.72	45958	5.92	182346	6.92	87206	8.37	157044	9.85	122453	12.92	128063	14.57
9M110341.D	AD27928-041	23491	2.73	44517	5.92	177719	6.92	86940	8.37	156844	9.85	120586	12.92	129000	14.57
9M110342.D	AD27928-028	25569	2.73	47851	5.92	192151	6.92	93264	8.37	169342	9.85	130268	12.92	135142	14.57
9M110343.D	AD27928-027(10X)	28379	2.74	52666	5.92	211675	6.92	104189	8.37	182538	9.85	140628	12.92	149299	14.57
9M110344.D	SMB95963	26124	2.71	49524	5.92	199840	6.92	103368	8.37	193390	9.85	153180	12.92	158641	14.57
9M110345.D	SMB95972	27060	2.71	49532	5.92	200396	6.92	99567	8.37	181425	9.85	147635	12.92	147963	14.57
9M110346.D	AD27924-004	25566	2.72	48627	5.92	196911	6.92	96486	8.37	175572	9.85	137432	12.92	141032	14.57
9M110347.D	AD27924-004(MSD)	26521	2.71	49315	5.92	198205	6.92	96236	8.37	175928	9.85	141223	12.92	145741	14.57
9M110348.D	AD27924-004(MS)	25562	2.71	48322	5.92	190949	6.92	92982	8.37	167826	9.85	136762	12.92	140198	14.57
9M110349.D	AD27946-001(MS)	25994	2.72	48780	5.92	188753	6.92	88140	8.37	163641	9.85	133926	12.92	138681	14.57
9M110350.D	AD27946-001(MSD)	24928	2.71	46595	5.92	181951	6.92	84675	8.37	156791	9.85	127515	12.92	133243	14.57
9M110351.D	AD27765-004(3X)(R)	27830	2.73	51803	5.92	181813	6.92	88511	8.38	158646	9.85	138439	12.92	149423	14.57
9M110352.D	AD27765-013(30X)	28988	2.74	53033	5.92	201717	6.92	93066	8.37	170779	9.85	148870	12.92	156826	14.57
9M110353.D	AD27765-013(30X)(M	9551A	2.74	17186A	5.92	66649A	6.92	32057A	8.37	54923A	9.85	47490A	12.92	49638A	14.56
9M110354.D	AD27765-013(30X)(M	10283A	2.75	18550A	5.92	71350A	6.92	34361A	8.37	58151A	9.85	50734A	12.92	53370A	14.56
9M110355.D	AD27792-003(10X)	28743	2.74	52181	5.92	207082	6.92	100705	8.37	183926	9.85	143105	12.92	149591	14.57
9M110356.D	AD27792-008(10X)	27907	2.74	52297	5.92	202542	6.92	93202	8.37	142662	9.86	131069	12.92	143391	14.57
9M110357.D	AD27755-009(3X)	26116	2.73	49306	5.92	197900	6.92	97373	8.37	176932	9.85	137666	12.92	142634	14.57

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27822-001
Client Id: SB-014SS
Data File: 7G56256.D
Analysis Date: 12/19/21 14:11
Date Rec/Extracted: 12/10/21-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**67**	**240**				

Worksheet #: 623483

Total Target Concentration 240

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56256.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 14:11
Operator : ABM/AH
Sample : AD27822-001
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 09:01:00 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Thu Dec 30 08:50:18 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

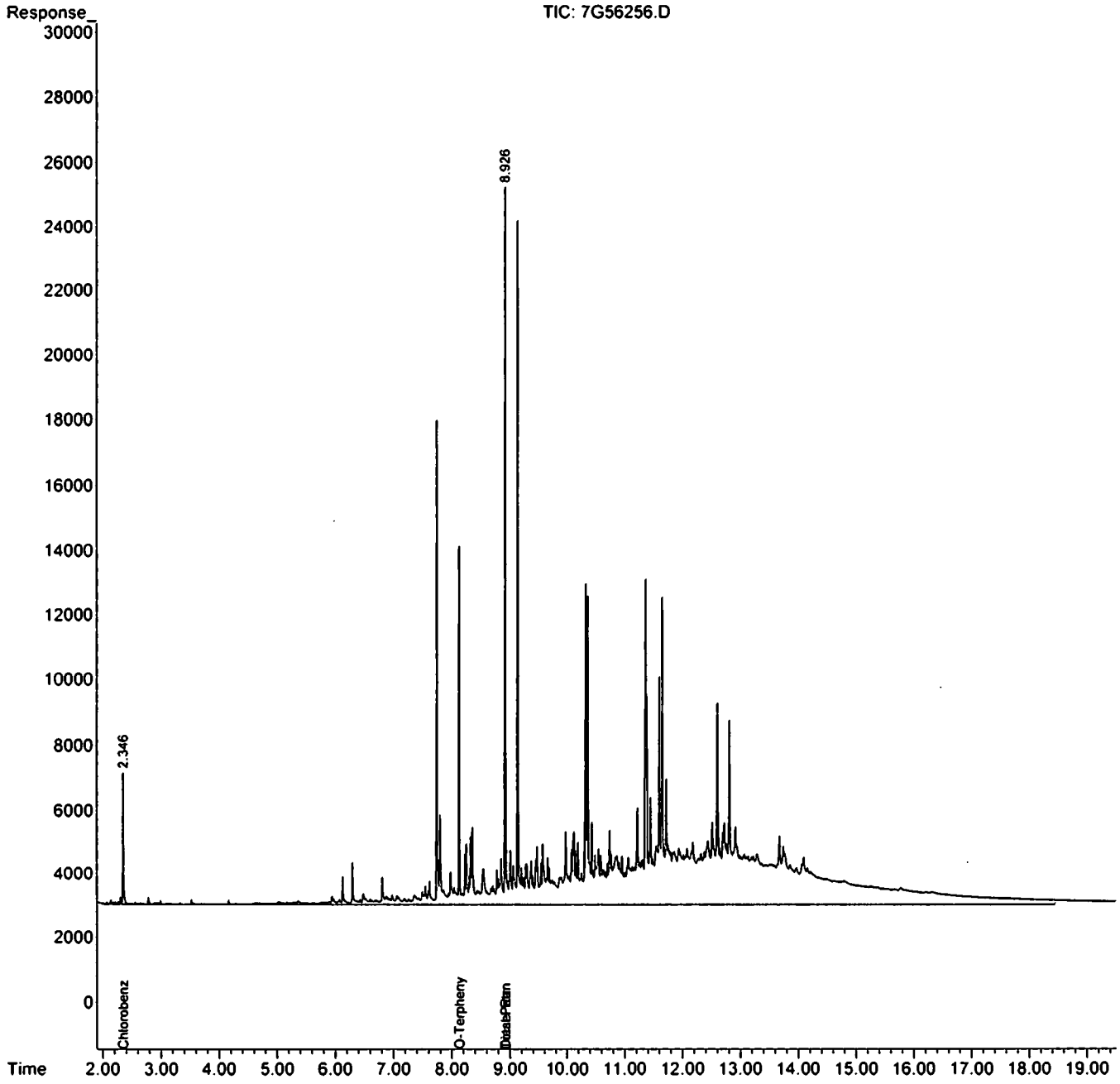
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.347	31997	9.561		
23)	O-Terphenyl	8.131	83281	13.564		
24)d	Diesel Range Organics(T	8.926f	3194975	518.083		m
25)t	Total Petroleum Hydroca	8.926f	6889143	1154.441		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56256.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 14:11
Operator : ABM/AH
Sample : AD27822-001
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 09:01:00 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Thu Dec 30 08:50:18 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95921
Client Id:
Data File: 7G56253.D
Analysis Date: 12/19/21 12:42
Date Rec/Extracted: NA-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 623483

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

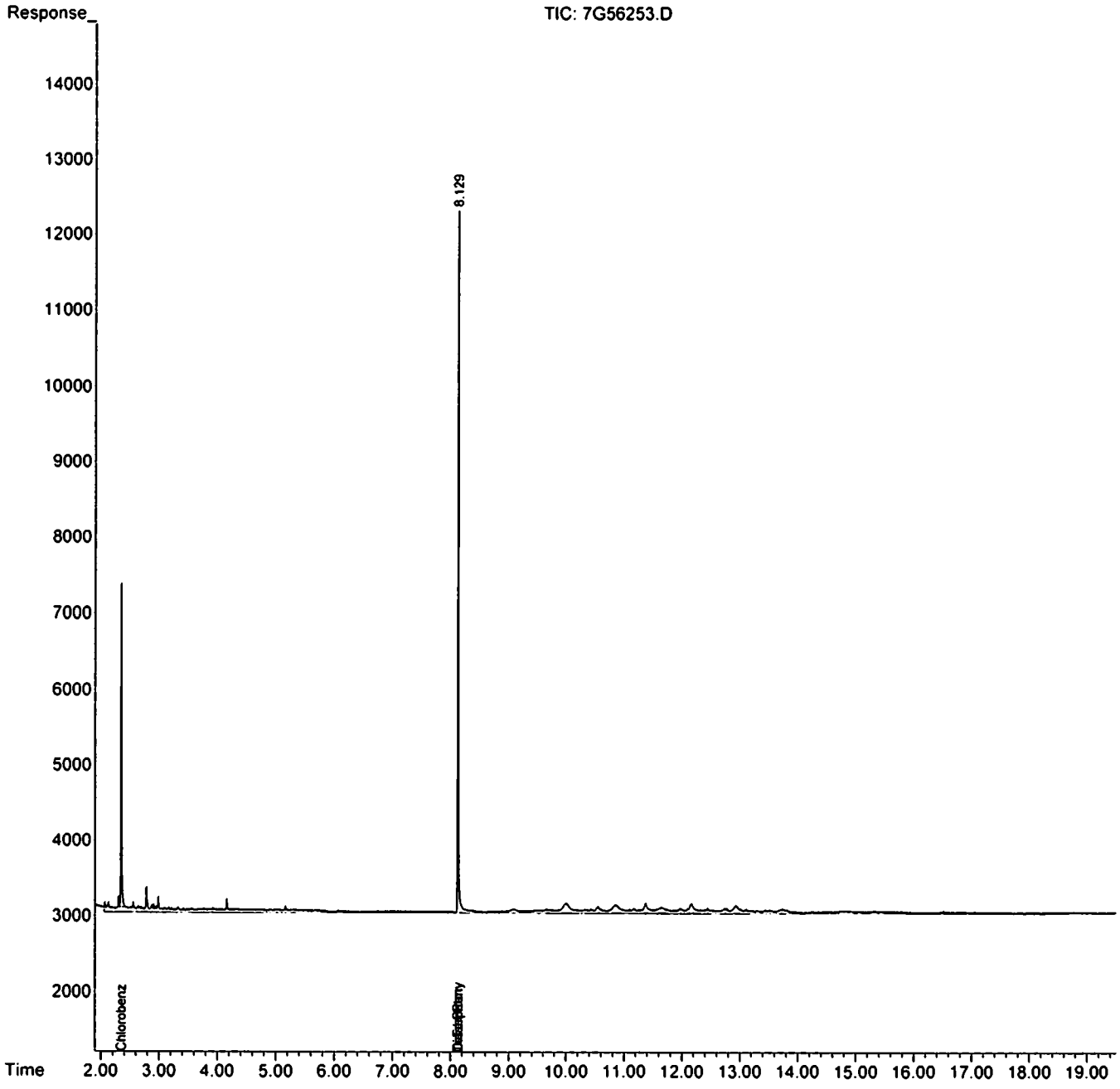
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.347	31915	9.536		
23)	O-Terphenyl	8.129	75611	12.315		
24)d	Diesel Range Organics(T	8.129f	224348	42.063		m
25)t	Total Petroleum Hydroca	8.129f	408399	78.334		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-17-21\
Data File : 7G56239.D
Signal(s) : FID2B.CH
Acq On : 17 Dec 2021 15:54
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 17 17:47:21 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

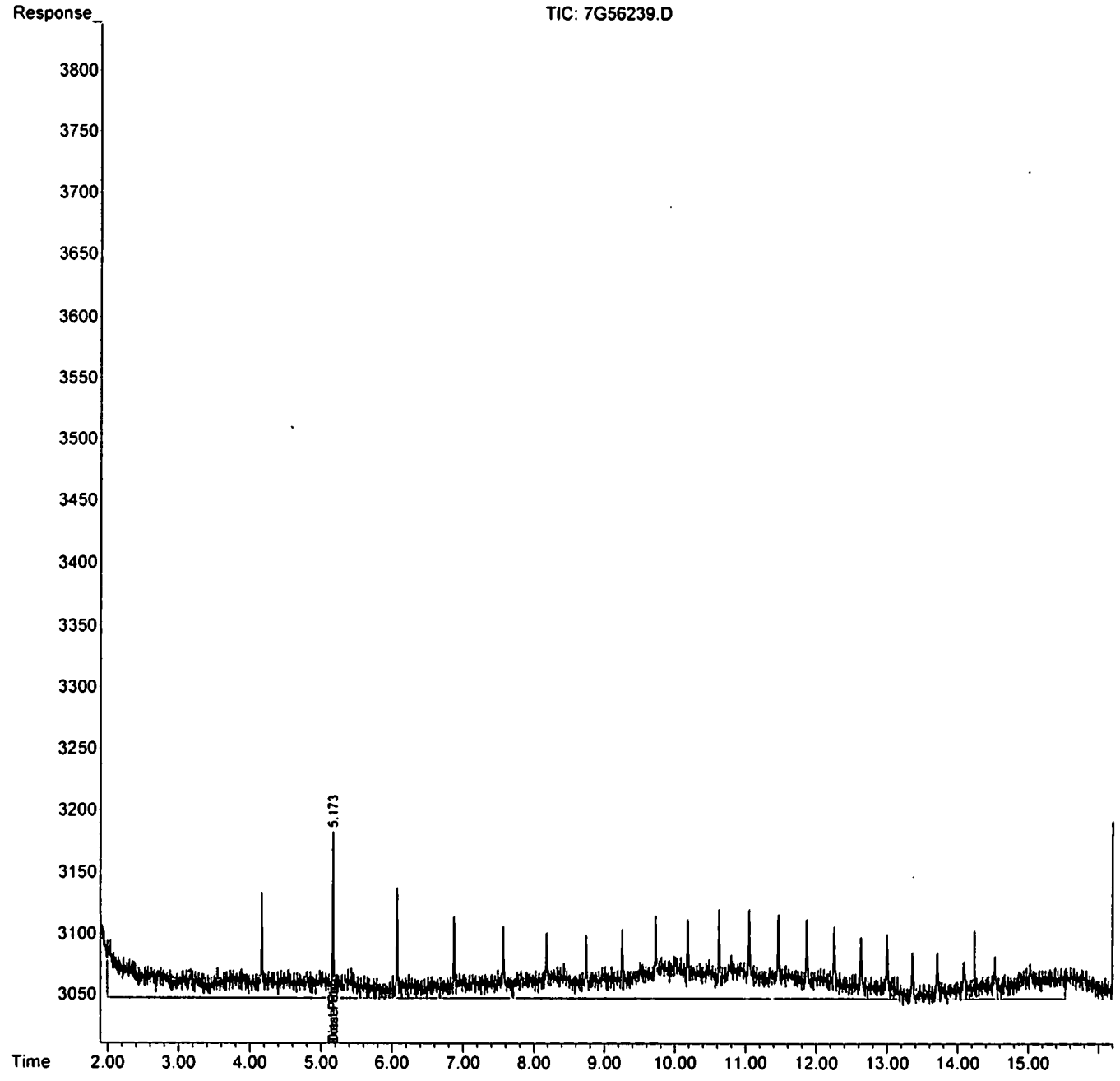
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)	Chlorobenzene	0.000	0	N.D.		
22)	O-Terphenyl	0.000	0	N.D.		
23)d	Diesel Range Organics(T	5.173	77966	13.597		m
24)t	Total Petroleum Hydroca	5.173	124565	22.002		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-17-21\
Data File : 7G56239.D
Signal(s) : FID2B.CH
Acq On : 17 Dec 2021 15:54
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 17 17:47:21 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56252.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:12
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:53:23 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

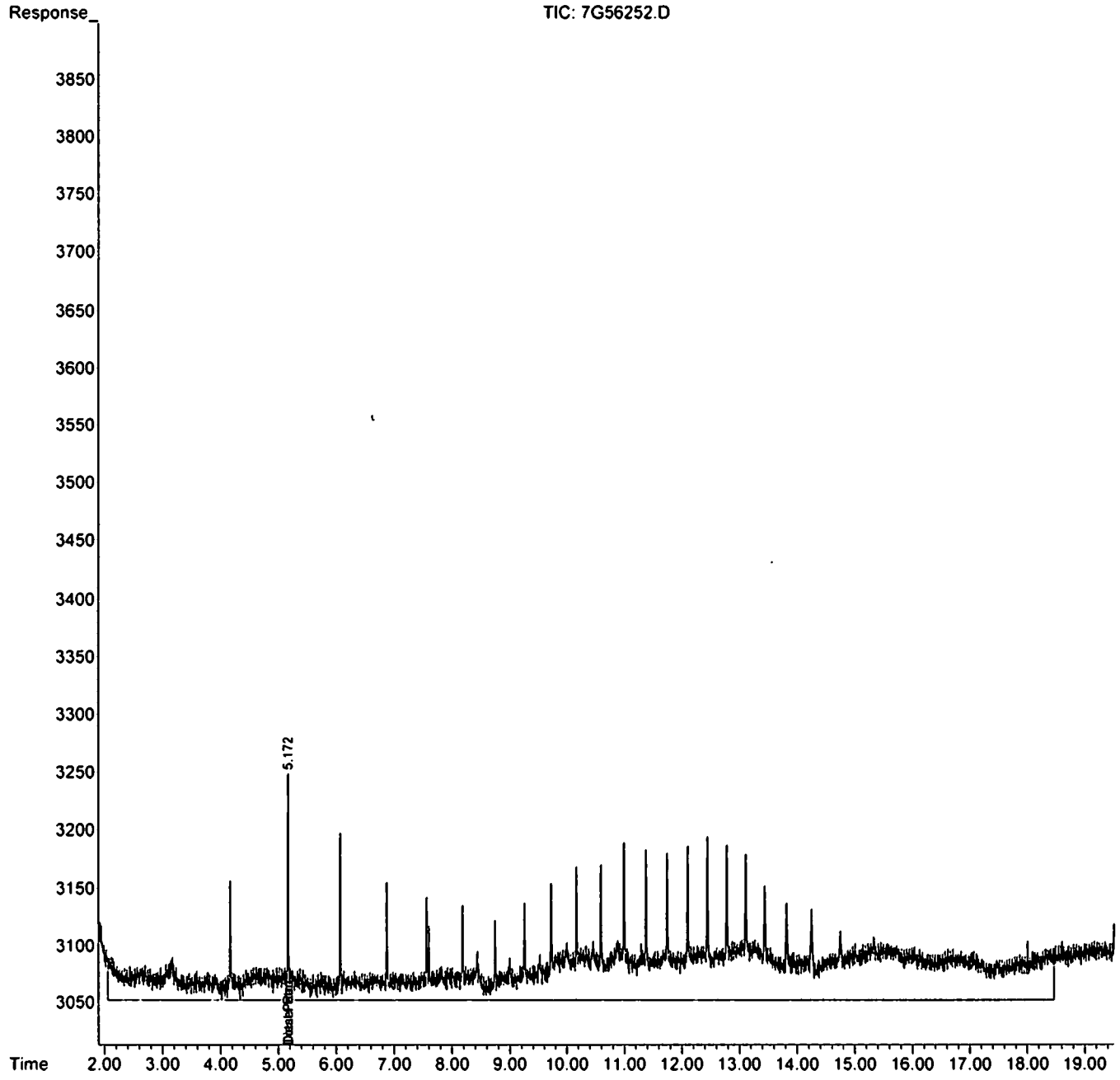
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.172	110599	20.736		m
25)t	Total Petroleum Hydroca	5.172	288469	55.331		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56252.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:12
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:53:23 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56253.D	SMB95921	S	12/19/21 12:42	1		48	62				
7G56256.D	AD27822-001	S	12/19/21 14:11	1		48	68				
7G56241.D	SMB95921(MS)	S	12/17/21 17:32	1		45	53				
7G56242.D	AD27887-002	S	12/17/21 17:58	1		37	60				
7G56243.D	AD27887-002(MS)	S	12/17/21 18:24	1		41	122				
7G56244.D	AD27887-002(MSD)	S	12/17/21 18:50	1		39	57				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56241.D	SMB95921(MS)	12/17/2021 5:32:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1682.29	0	3000	56	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3647.31	2085.89	3000	52	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3711.26	2085.89	3000	54	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Duplicate(If applicable):	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	3711.26	3647.31	1.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95921
Blank Data File: 7G56253.D
Matrix: Soil

Blank Analysis Date: 12/19/21 12:42
Blank Extraction Date: 12/17/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27822-001	7G56256.D	12/19/21 14:11
AD27887-002(MSD	7G56244.D	12/17/21 18:50
AD27887-002(MS)	7G56243.D	12/17/21 18:24
AD27887-002	7G56242.D	12/17/21 17:58
SMB95921(MS)	7G56241.D	12/17/21 17:32

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56236.D	INST BLK	12/17/21 11:30	Soil					
7G56237.D	TPH@20PPM	12/17/21 12:22	Soil					
7G56238.D	CAL TPH@20PPM	12/17/21 15:28	Soil	7G56238.	8.1393	0		
7G56239.D	INST BLK	12/17/21 15:54	Soil	7G56238.	0.0000	200		
7G56240.D	SMB95921	12/17/21 17:07	Soil	7G56238.	8.1411	0.0221		
7G56241.D	SMB95921(MS)	12/17/21 17:32	Soil	7G56238.	8.1369	0.0295		
7G56242.D	AD27887-002	12/17/21 17:58	Soil	7G56238.	8.1359	0.0418		
7G56243.D	AD27887-002(MS)	12/17/21 18:24	Soil	7G56238.	8.1325	0.0836		
7G56244.D	AD27887-002(MSD)	12/17/21 18:50	Soil	7G56238.	8.1313	0.0983		
7G56245.D	27810-001	12/17/21 19:16	Soil	7G56238.	8.1340	0.0651		
7G56246.D	27810-002	12/17/21 19:42	Soil	7G56238.	8.1333	0.0737		
7G56247.D	27822-001	12/17/21 20:08	Soil	7G56238.	8.1332	0.075		
7G56248.D	CAL TPH@20PPM	12/17/21 20:34	Soil	7G56238.	8.1354	0.0479		
7G56249.D	CAL TPH@20PPM	12/17/21 21:00	Soil	7G56238.	8.1345	0.059		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56250.D	INST BLK	12/19/21 10:34	Soil					
7G56251.D	CAL TPH@20PPM	12/19/21 11:38	Soil	7G56251.	8.1383	0		
7G56252.D	INST BLK	12/19/21 12:12	Soil	7G56251.	0.0000	200		
7G56253.D	SMB95921	12/19/21 12:42	Soil	7G56251.	8.1295	0.1082		
7G56254.D	AD27810-001	12/19/21 13:11	Soil	7G56251.	8.1296	0.107		
7G56255.D	AD27810-002	12/19/21 13:41	Soil	7G56251.	8.1293	0.1106		
7G56256.D	AD27822-001	12/19/21 14:11	Soil	7G56251.	8.1310	0.0897		
7G56257.D	CAL TPH@20PPM	12/19/21 14:40	Soil	7G56251.	8.1333	0.0615		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

1121003 0104

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Ava	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1121003 0105

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	---	---	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	---	---	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	---	---	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	---	---	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	---	---	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	---	---	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	---	---	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	---	---	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	---	---	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	---	---	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	---	---	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	---	---	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	---	---	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	---	---	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	---	---	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	---	---	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	---	---	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	---	---	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	---	---	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	---	---	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	---	---	---	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	---	---	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	---	---	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	---	---	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	---	---	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	---	---	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56238.D				7G56248.D				7G56251.D				7G56257.D						
Method:				8015				8015				8015				8015						
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM						
Calibration Date/Time				12/17/21 15:28				12/17/21 20:34				12/19/21 11:38				12/19/21 14:40						
				Conc				Conc				Conc				Conc				Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff
C8	20	1	0	17.46	20	12.7		17.22	20	13.9		18.96	20	5.2		16.9	20	15.5				
C9	20	1	0	18.41	20	8.0		18.06	20	9.7		19.59	20	2.0		17.08	20	14.6				
C10	20	1	0	18.79	20	6.0		18.74	20	6.3		20.47	20	2.3		17.41	20	13.0				
C12	20	1	0	19.89	20	0.6		19.37	20	3.1		19.51	20	2.4		15.99	20	20.1				
C14	20	1	0	21.19	20	6.0		20.38	20	1.9		22.69	20	13.5		19.48	20	2.6				
C16	20	1	0	21.11	20	5.6		20.54	20	2.7		23.3	20	16.5		19.94	20	0.3				
C17	20	1	0	17.32	20	13.4		17.84	20	10.8		20.37	20	1.9		15.84	20	20.8*				
Pristane	20	1	0	27.64	20	38.2*		25.08	20	25.4*		27.87	20	39.4*		26.03	20	30.2*				
C18	20	1	0	22.63	20	13.2		21.85	20	9.3		23.42	20	17.1		20.41	20	2.0				
Phytane	20	1	0	23.33	20	16.7		21.82	20	9.1		22.78	20	13.9		20.18	20	0.9				
C20	20	1	0	21.8	20	9.0		20.85	20	4.3		24.95	20	24.8*		21.92	20	9.6				
C22	20	1	0	22.17	20	10.9		21.32	20	6.6		24.71	20	23.6*		21.76	20	8.8				
C24	20	1	0	22.27	20	11.4		21.38	20	6.9		24.9	20	24.5*		21.66	20	8.3				
C26	20	1	0	22.22	20	11.1		21.52	20	7.6		24.96	20	24.8*		21.93	20	9.7				
C28	20	1	0	22.51	20	12.6		21.9	20	9.5		25.14	20	25.7*		22.39	20	12.0				
C30	20	1	0	22.51	20	12.6		21.72	20	8.6		25.17	20	25.9*		22.81	20	14.1				
C32	20	1	0	22.15	20	10.8		20.94	20	4.7		25.19	20	26.0*		23.13	20	15.6				
C34	20	1	0	20.58	20	2.9		18.45	20	7.7		23.51	20	17.6		22.28	20	11.4				
C36	20	1	0	19.03	20	4.8		15.79	20	21.1*		20.82	20	4.1		20.73	20	3.6				
C40	20	1	0	16.08	20	19.6		11.86	20	40.7*		16.08	20	19.6		17.15	20	14.3				
Chlorobenzene	20	1	0	19.25	20	3.8		18.88	20	5.6		20.75	20	3.8		18.19	20	9.0				
O-Terphenyl	20	1	0	22.45	20	12.3		21.59	20	8.0		25.54	20	27.7*		22.38	20	11.9				
Average Difference	20	1	0			11.0				10.2				17.9				12.9				

Flags/Notes: ** - Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27822-001
Client Id: SB-014SS
Data File: 7G56256.D
Analysis Date: 12/19/21 14:11
Date Rec/Extracted: 12/10/21-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	67	110				

Worksheet #: 623481

Total Target Concentration 110

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56256.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 14:11
Operator : ABM/AH
Sample : AD27822-001
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 09:01:00 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Thu Dec 30 08:50:18 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

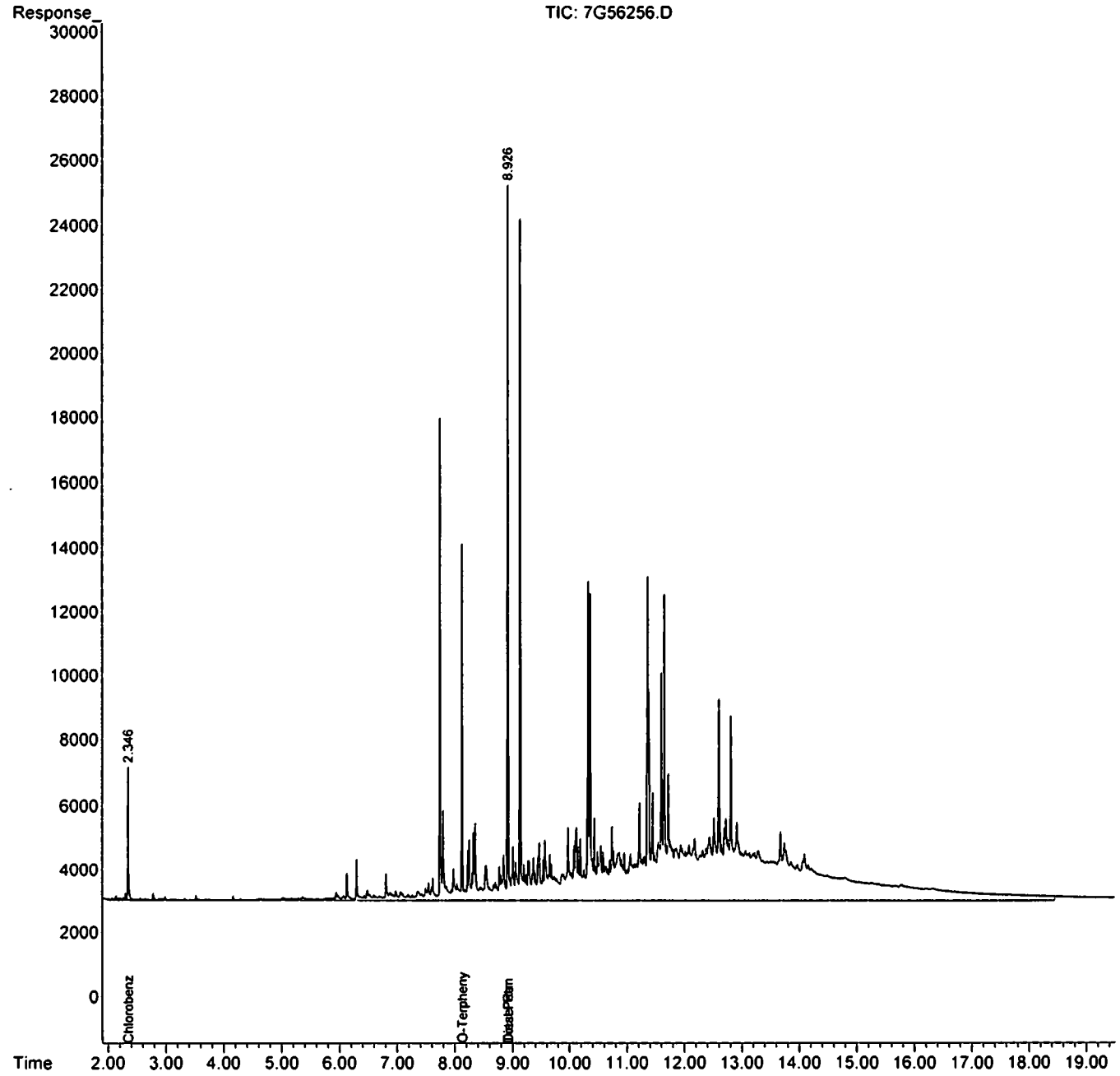
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.347	31997	9.561		
23)	O-Terphenyl	8.131	83281	13.564		
24)d	Diesel Range Organics(T	8.926f	3194975	518.083		m
25)t	Total Petroleum Hydroca	8.926f	6889143	1154.441		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56256.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 14:11
Operator : ABM/AH
Sample : AD27822-001
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 09:01:00 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Thu Dec 30 08:50:18 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB95921
Client Id:
Data File: 7G56253.D
Analysis Date: 12/19/21 12:42
Date Rec/Extracted: NA-12/17/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 623481

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

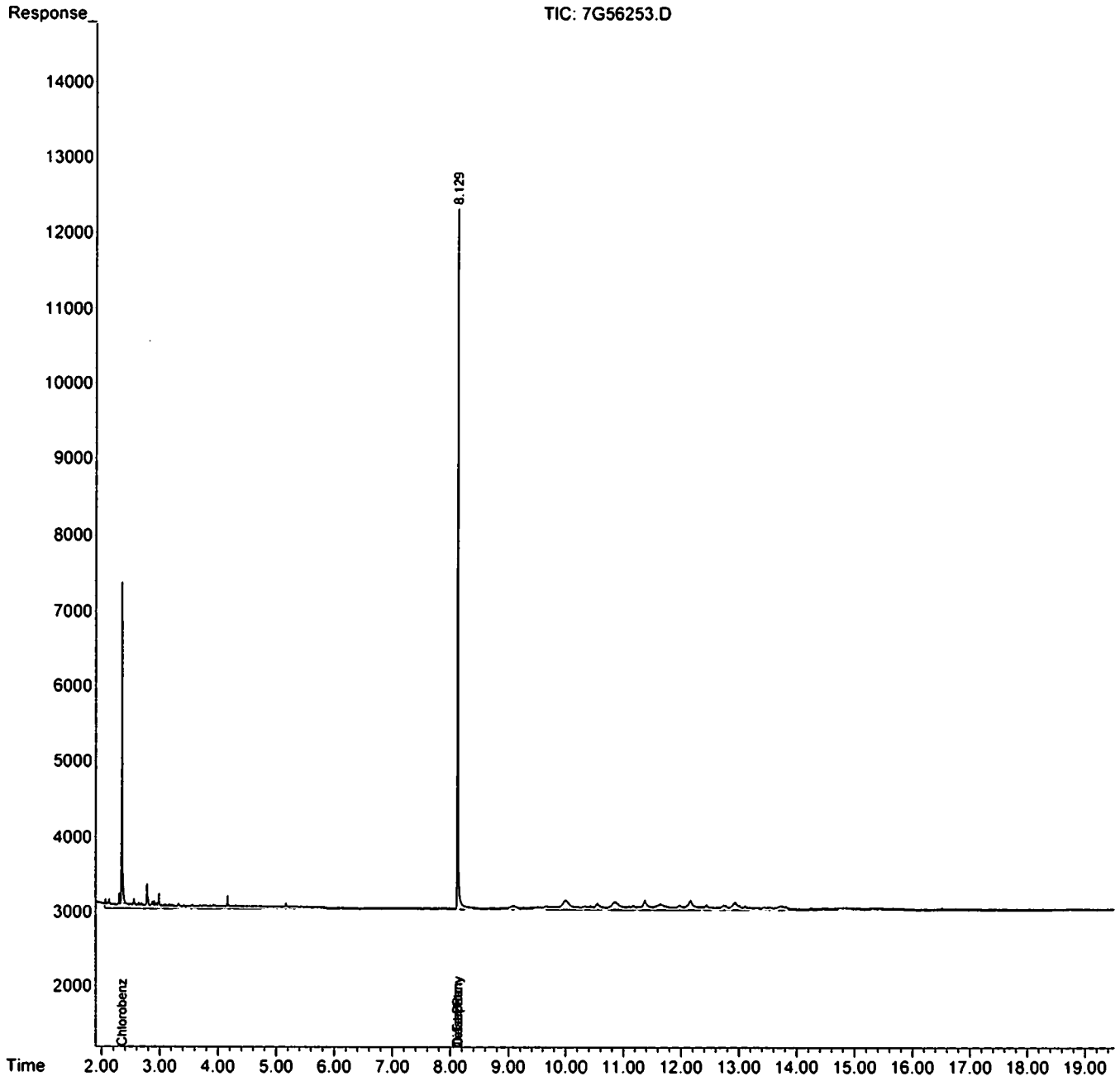
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.347	31915	9.536		
23)	O-Terphenyl	8.129	75611	12.315		
24)d	Diesel Range Organics(T	8.129f	224348	42.063		m
25)t	Total Petroleum Hydroca	8.129f	408399	78.334		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56253.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:42
Operator : ABM/AH
Sample : SMB95921
Misc : S,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:20:51 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56252.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:12
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:53:23 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

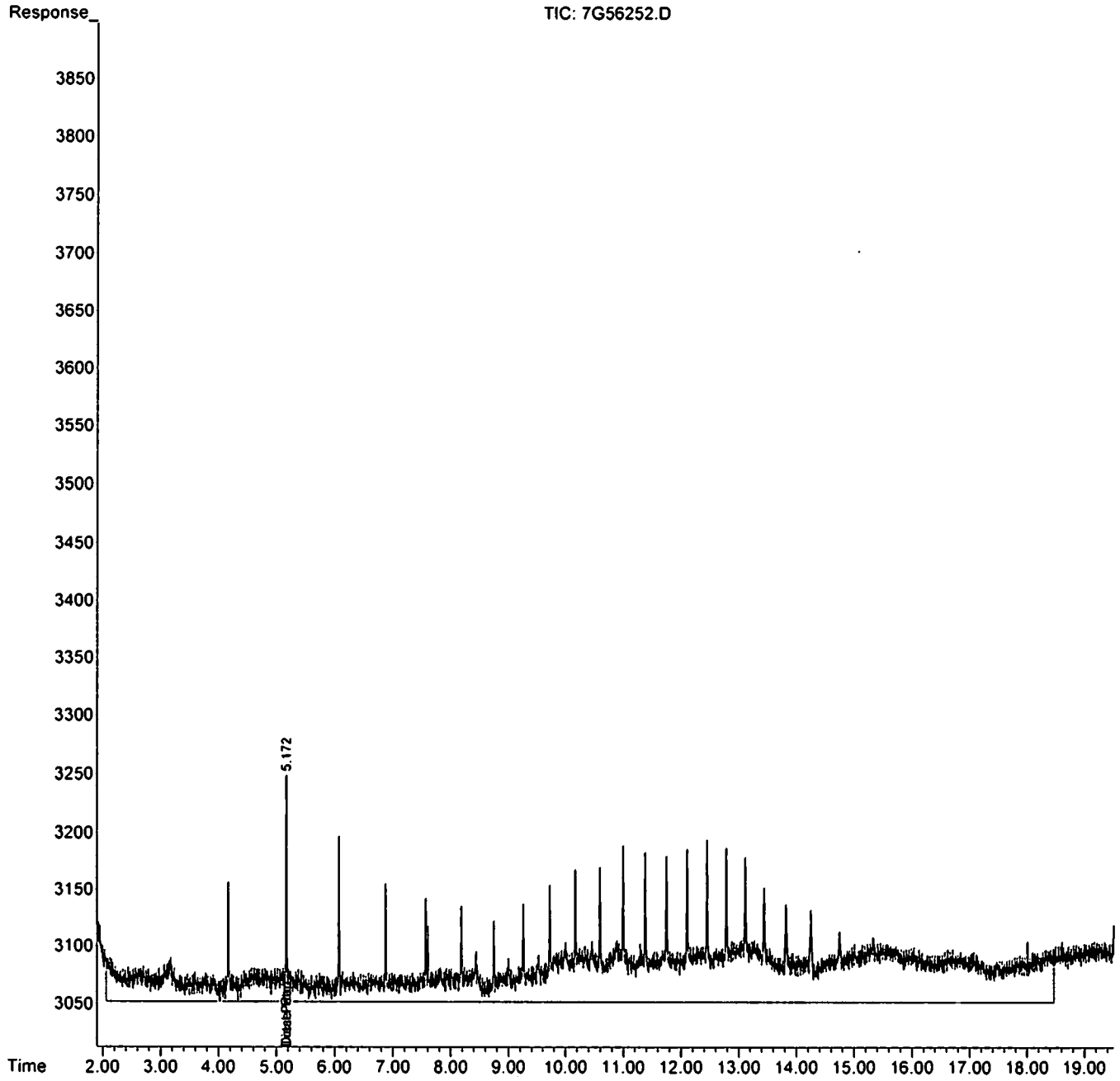
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.172	110599	20.736		m
25)t	Total Petroleum Hydroca	5.172	288469	55.331		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-19-21\
Data File : 7G56252.D
Signal(s) : FID2B.CH
Acq On : 19 Dec 2021 12:12
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 08:53:23 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56253.D	SMB95921	S	12/19/21 12:42	1		48	62				
7G56256.D	AD27822-001	S	12/19/21 14:11	1		48	68				
7G56241.D	SMB95921(MS)	S	12/17/21 17:32	1		45	53				
7G56242.D	AD27887-002	S	12/17/21 17:58	1		37	60				
7G56243.D	AD27887-002(MS)	S	12/17/21 18:24	1		41	122				
7G56244.D	AD27887-002(MSD)	S	12/17/21 18:50	1		39	57				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56241.D	SMB95921(MS)	12/17/2021 5:32:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1682.29**	**0**	**3000**	**56**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**3647.31**	**2085.89**	**3000**	**52**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Non Spike(If applicable):	7G56242.D	AD27887-002	12/17/2021 5:58:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**3711.26**	**2085.89**	**3000**	**54**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB95921

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56244.D	AD27887-002(MSD)	12/17/2021 6:50:00 PM
Duplicate(If applicable):	7G56243.D	AD27887-002(MS)	12/17/2021 6:24:00 PM
Inst Blank(If applicable):	7G56239.D	INST BLK	12/17/2021 3:54:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**3711.26**	**3647.31**	**1.7**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB95921
Blank Data File: 7G56253.D
Matrix: Soil

Blank Analysis Date: 12/19/21 12:42
Blank Extraction Date: 12/17/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27822-001	7G56256.D	12/19/21 14:11
AD27887-002(MSD	7G56244.D	12/17/21 18:50
AD27887-002(MS)	7G56243.D	12/17/21 18:24
AD27887-002	7G56242.D	12/17/21 17:58
SMB95921(MS)	7G56241.D	12/17/21 17:32

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56236.D	INST BLK	12/17/21 11:30	Soil					
7G56237.D	TPH@20PPM	12/17/21 12:22	Soil					
7G56238.D	CAL TPH@20PPM	12/17/21 15:28	Soil	7G56238.	8.1393	0		
7G56239.D	INST BLK	12/17/21 15:54	Soil	7G56238.	0.0000	200		
7G56240.D	SMB95921	12/17/21 17:07	Soil	7G56238.	8.1411	0.0221		
7G56241.D	SMB95921(MS)	12/17/21 17:32	Soil	7G56238.	8.1369	0.0295		
7G56242.D	AD27887-002	12/17/21 17:58	Soil	7G56238.	8.1359	0.0418		
7G56243.D	AD27887-002(MS)	12/17/21 18:24	Soil	7G56238.	8.1325	0.0836		
7G56244.D	AD27887-002(MSD)	12/17/21 18:50	Soil	7G56238.	8.1313	0.0983		
7G56245.D	27810-001	12/17/21 19:16	Soil	7G56238.	8.1340	0.0651		
7G56246.D	27810-002	12/17/21 19:42	Soil	7G56238.	8.1333	0.0737		
7G56247.D	27822-001	12/17/21 20:08	Soil	7G56238.	8.1332	0.075		
7G56248.D	CAL TPH@20PPM	12/17/21 20:34	Soil	7G56238.	8.1354	0.0479		
7G56249.D	CAL TPH@20PPM	12/17/21 21:00	Soil	7G56238.	8.1345	0.059		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56250.D	INST BLK	12/19/21 10:34	Soil					
7G56251.D	CAL TPH@20PPM	12/19/21 11:38	Soil	7G56251.	8.1383	0		
7G56252.D	INST BLK	12/19/21 12:12	Soil	7G56251.	0.0000	200		
7G56253.D	SMB95921	12/19/21 12:42	Soil	7G56251.	8.1295	0.1082		
7G56254.D	AD27810-001	12/19/21 13:11	Soil	7G56251.	8.1296	0.107		
7G56255.D	AD27810-002	12/19/21 13:41	Soil	7G56251.	8.1293	0.1106		
7G56256.D	AD27822-001	12/19/21 14:11	Soil	7G56251.	8.1310	0.0897		
7G56257.D	CAL TPH@20PPM	12/19/21 14:40	Soil	7G56251.	8.1333	0.0615		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1121003 0126

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1121003 0127

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number

Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000

Initial Calibration Criteria: either %RSD <=20 or Corr >= .995

Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

				7G56238.D			7G56248.D			7G56251.D			7G56257.D			
Data File:				8015			8015			8015			8015			
Method:				CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			
Calibration Name:				12/17/21 15:28			12/17/21 20:34			12/19/21 11:38			12/19/21 14:40			
Calibration Date/Time				Conc			Conc			Conc			Conc			Conc
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc Exp %Diff
C8	20	1	0	17.46	20	12.7	17.22	20	13.9	18.96	20	5.2	16.9	20	15.5	
C9	20	1	0	18.41	20	8.0	18.06	20	9.7	19.59	20	2.0	17.08	20	14.6	
C10	20	1	0	18.79	20	6.0	18.74	20	6.3	20.47	20	2.3	17.41	20	13.0	
C12	20	1	0	19.89	20	0.6	19.37	20	3.1	19.51	20	2.4	15.99	20	20.1	
C14	20	1	0	21.19	20	6.0	20.38	20	1.9	22.69	20	13.5	19.48	20	2.6	
C16	20	1	0	21.11	20	5.6	20.54	20	2.7	23.3	20	16.5	19.94	20	0.3	
C17	20	1	0	17.32	20	13.4	17.84	20	10.8	20.37	20	1.9	15.84	20	20.8*	
Pristane	20	1	0	27.64	20	38.2*	25.08	20	25.4*	27.87	20	39.4*	26.03	20	30.2*	
C18	20	1	0	22.63	20	13.2	21.85	20	9.3	23.42	20	17.1	20.41	20	2.0	
Phytane	20	1	0	23.33	20	16.7	21.82	20	9.1	22.78	20	13.9	20.18	20	0.9	
C20	20	1	0	21.8	20	9.0	20.85	20	4.3	24.95	20	24.8*	21.92	20	9.6	
C22	20	1	0	22.17	20	10.9	21.32	20	6.6	24.71	20	23.6*	21.76	20	8.8	
C24	20	1	0	22.27	20	11.4	21.38	20	6.9	24.9	20	24.5*	21.66	20	8.3	
C26	20	1	0	22.22	20	11.1	21.52	20	7.6	24.96	20	24.8*	21.93	20	9.7	
C28	20	1	0	22.51	20	12.6	21.9	20	9.5	25.14	20	25.7*	22.39	20	12.0	
C30	20	1	0	22.51	20	12.6	21.72	20	8.6	25.17	20	25.9*	22.81	20	14.1	
C32	20	1	0	22.15	20	10.8	20.94	20	4.7	25.19	20	26.0*	23.13	20	15.6	
C34	20	1	0	20.58	20	2.9	18.45	20	7.7	23.51	20	17.6	22.28	20	11.4	
C36	20	1	0	19.03	20	4.8	15.79	20	21.1*	20.82	20	4.1	20.73	20	3.6	
C40	20	1	0	16.08	20	19.6	11.86	20	40.7*	16.08	20	19.6	17.15	20	14.3	
Chlorobenzene	20	1	0	19.25	20	3.8	18.88	20	5.6	20.75	20	3.8	18.19	20	9.0	
O-Terphenyl	20	1	0	22.45	20	12.3	21.59	20	8.0	25.54	20	27.7*	22.38	20	11.9	
Average Difference	20	1	0			11.0			10.2			17.9			12.9	

Flags/Notes: ** - Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD27822-001
Client Id: SB-014SS
Data File: 13M23297.D
Analysis Date: 12/16/21 16:05
Date Rec/Extracted: 12/10/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 4.11g:10ml
Final Vol: NA
Dilution: 122
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	34	U				

Worksheet #: 622692

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23297.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 16:05
Operator : JM
Sample : AD27822-001
Misc : M,MEXT!2
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 22 14:31:17 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

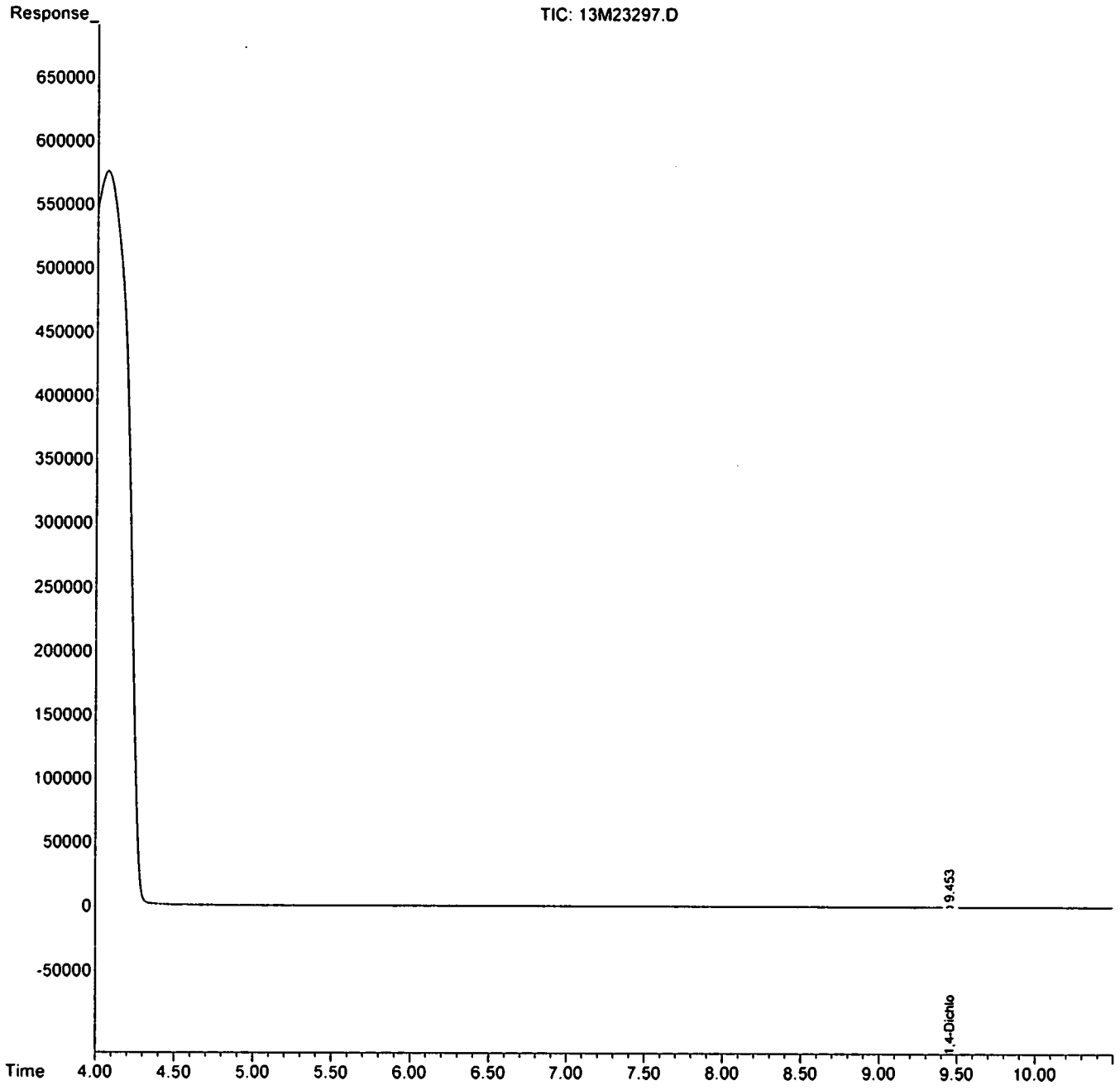
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.454	24108	29.286	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23297.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 16:05
Operator : JM
Sample : AD27822-001
Misc : M,MEXT!2
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 22 14:31:17 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23283.D
Analysis Date: 12/16/21 12:11
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 622692

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23283.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:11
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 16 12:31:02 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

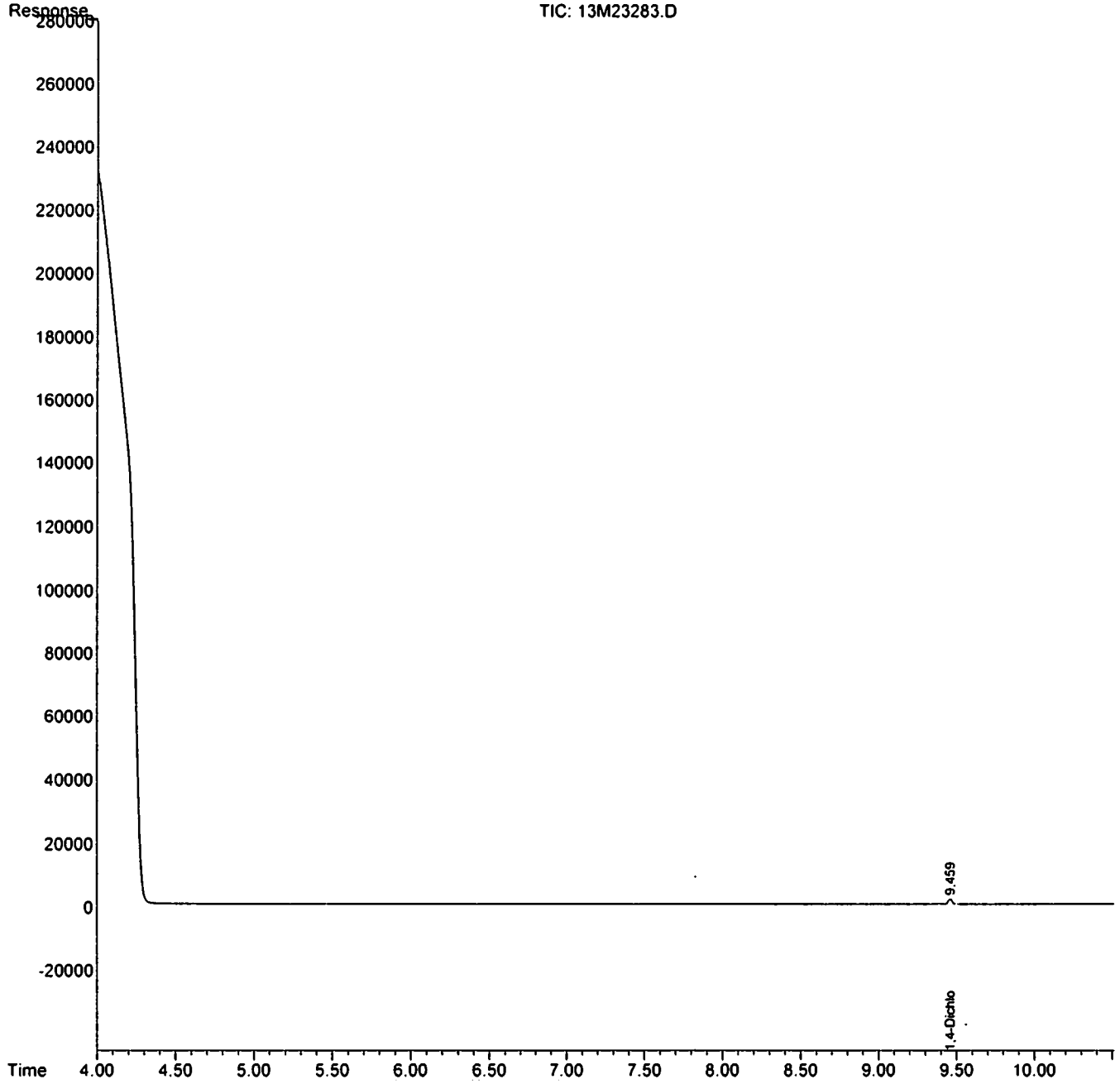
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.460	27431	33.323	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-16-21\
Data File : 13M23283.D
Signal(s) : FID1A.CH
Acq On : 16 Dec 2021 12:11
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 16 12:31:02 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M23283.D	DAILY BLANK	M	12/16/21 12:11	1		111					
13M23297.D	AD27822-001	M	12/16/21 16:05	1		98					
13M23286.D	AD27810-002(MS)	M	12/16/21 13:01	1		126					
13M23287.D	AD27810-002(MSD)	M	12/16/21 13:18	1		128					
13M23288.D	MBS98248	M	12/16/21 13:34	1		142					
13M23305.D	AD27810-002	M	12/16/21 18:19	1		101					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23288.D	MBS98248	12/16/2021 1:34:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2314.2	0	2000	116	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23286.D	AD27810-002(MS)	12/16/2021 1:01:00 PM
Non Spike(If applicable):	13M23235.D	AD27810-002	12/10/2021 6:37:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2831.44	0	2000	142	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23287.D	AD27810-002(MSD)	12/16/2021 1:18:00 PM
Non Spike(If applicable):	13M23235.D	AD27810-002	12/10/2021 6:37:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2600.32	0	2000	130	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS98248

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23287.D	AD27810-002(MSD)	12/16/2021 1:18:00 PM
Duplicate(If applicable):	13M23286.D	AD27810-002(MS)	12/16/2021 1:01:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2600.32	2831.44	8.5	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23283.D
Matrix: Methanol

Blank Analysis Date: 12/16/21 12:11
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27822-001	13M23297.D	12/16/21 16:05
AD27810-002	13M23305.D	12/16/21 18:19
MBS98248	13M23288.D	12/16/21 13:34
AD27810-002(MSD	13M23287.D	12/16/21 13:18
AD27810-002(MS)	13M23286.D	12/16/21 13:01

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23111.D	BLK	11/24/21 07:34	Aqueous	13M2315	9.4811	0.3667		
13M23114.D	CAL @ 250 PPB	11/24/21 08:24	Aqueous	13M2312	9.4798	0.2313		
13M23116.D	CAL @ 500 PPB	11/24/21 08:57	Aqueous	13M2312	9.4683	0.1099		
13M23118.D	CAL @ 750 PPB	11/24/21 09:30	Aqueous	13M2312	9.4693	0.1205		
13M23120.D	CAL @ 1000 PPB	11/24/21 10:04	Aqueous	13M2312	9.4613	0.0359		
13M23124.D	CAL @ 1500 PPB	11/24/21 11:35	Aqueous	13M2312	9.4803	0.2366		
13M23126.D	CAL @ 2000 PPB	11/24/21 12:08	Aqueous	13M2312	9.4597	0.019		
13M23128.D	CAL @ 4000 PPB	11/24/21 12:41	Aqueous	13M2312	9.4579	0		
13M23131.D	ICV	11/24/21 13:31	Aqueous	13M2312	9.4569	0.0106		
13M23134.D	DAILY BLANK	11/24/21 14:21	Methanol	13M2312	9.4528	0.0539		
13M23135.D	DAILY BLANK	11/24/21 14:37	Aqueous	13M2312	9.4491	0.0931		
13M23136.D	STD	11/24/21 14:58	Aqueous	13M2312	9.4595	0.0169		
13M23137.D	BLK	11/24/21 15:14	Aqueous	13M2312	9.4511	0.0719		
13M23138.D	BLK	11/24/21 15:30	Methanol	13M2312	9.4466	0.1195		
13M23139.D	BLK	11/24/21 15:47	Methanol	13M2312	9.4414	0.1746		
13M23140.D	AD27002-003(80uL)	11/24/21 16:03	Methanol	13M2312	9.4461	0.1248		
13M23141.D	BLK	11/24/21 16:20	Methanol	13M2312	9.4476	0.109		
13M23142.D	BLK	11/24/21 16:36	Methanol	13M2312	9.4552	0.0286		
13M23143.D	AD27002-003(400uL)	11/24/21 16:53	Methanol	13M2312	9.4609	0.0317		
13M23144.D	BLK	11/24/21 17:09	Methanol	13M2312	9.4552	0.0286		
13M23145.D	MBS97290	11/24/21 17:26	Methanol	13M2312	9.4541	0.0402		
13M23146.D	MBS97291	11/24/21 17:42	Aqueous	13M2312	9.4548	0.0328		
13M23147.D	AD27503-008(MS)	11/24/21 17:59	Methanol	13M2312	9.4481	0.1037		
13M23148.D	AD27503-008(MSD)	11/24/21 18:15	Methanol	13M2312	9.4456	0.1301		
13M23149.D	BLK	11/24/21 18:32	Aqueous	13M2312	9.4479	0.1058		
13M23150.D	AD27564-001	11/24/21 18:48	Methanol	13M2312	9.4461	0.1248		
13M23151.D	BLK	11/24/21 19:05	Aqueous	13M2312	9.4491	0.0931		
13M23152.D	MBS97292	11/24/21 19:21	Methanol	13M2312	9.4473	0.1121		
13M23153.D	CAL @ 2000 PPB	11/24/21 19:37	Aqueous	13M2312	9.4464	0.1217		
13M23154.D	2000 PPB	11/24/21 19:54	Aqueous	13M2315	9.4500	0.0381		
13M23155.D	BLK	11/24/21 20:11	Aqueous	13M2315	9.4477	0.0138		
13M23156.D	BLK	11/24/21 20:28	Aqueous	13M2315	9.4474	0.0106		
13M23157.D	BLK	11/24/21 20:45	Aqueous	13M2315	9.4486	0.0233		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23278.D	BLK	12/16/21 10:47	Aqueous	13M2330	9.4914	0.4149		
13M23279.D	2000PPB	12/16/21 11:03	Aqueous	13M2330	9.4746	0.2378		
13M23280.D	CAL @ 2000PPB	12/16/21 11:20	Aqueous	13M2328	9.4626	0		
13M23281.D	BLK	12/16/21 11:37	Aqueous	13M2328	9.4632	0.0063		
13M23282.D	BLK	12/16/21 11:54	Aqueous	13M2328	9.4626	0		
13M23283.D	DAILY BLANK	12/16/21 12:11	Methanol	13M2328	9.4597	0.0307		
13M23284.D	AD27870-001	12/16/21 12:28	Methanol	13M2328	9.4592	0.0359		
13M23285.D	AD27774-003(40UL)	12/16/21 12:45	Methanol	13M2328	9.4526	0.1057		
13M23286.D	AD27810-002(MS)	12/16/21 13:01	Methanol	13M2328	9.4615	0.0116		
13M23287.D	AD27810-002(MSD)	12/16/21 13:18	Methanol	13M2328	9.4605	0.0222		
13M23288.D	MBS98248	12/16/21 13:34	Methanol	13M2328	9.4653	0.0285		
13M23289.D	BLK	12/16/21 13:51	Aqueous	13M2328	9.4623	0.0032		
13M23290.D	BLK	12/16/21 14:08	Aqueous	13M2328	9.4593	0.0349		
13M23291.D	AD27850-008	12/16/21 14:25	Methanol	13M2328	9.4631	0.0053		
13M23292.D	AD27850-010	12/16/21 14:41	Methanol	13M2328	9.4610	0.0169		
13M23293.D	AD27850-011	12/16/21 14:58	Methanol	13M2328	9.4628	0.0021		
13M23294.D	AD27850-012	12/16/21 15:15	Methanol	13M2328	9.4574	0.055		
13M23295.D	AD27850-013	12/16/21 15:31	Methanol	13M2328	9.4551	0.0793		
13M23296.D	AD27850-014	12/16/21 15:49	Methanol	13M2328	9.4541	0.0899		
13M23297.D	AD27822-001	12/16/21 16:05	Methanol	13M2328	9.4536	0.0952		
13M23298.D	AD27893-009	12/16/21 16:22	Methanol	13M2328	9.4607	0.0201		
13M23299.D	AD27893-010	12/16/21 16:40	Methanol	13M2328	9.4621	0.0053		
13M23300.D	AD27893-011	12/16/21 16:57	Methanol	13M2328	9.4623	0.0032		
13M23301.D	AD27810-001	12/16/21 17:13	Methanol	13M2328	9.4575	0.0539		
13M23302.D	2000PPB	12/16/21 17:30	Aqueous	13M2328	9.4587	0.0412		
13M23305.D	AD27810-002	12/16/21 18:19	Methanol	13M2328	9.4508	0.1248		
13M23306.D	CAL @ 2000 PPB	12/16/21 18:36	Aqueous	13M2328	9.4521	0.111		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1121003 0144

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M23128.	CAL @ 4000 PPB	11/24/21 12:41	2	13M23126.	CAL @ 2000 PPB	11/24/21 12:08
3	13M23124.	CAL @ 1500 PPB	11/24/21 11:35	4	13M23120.	CAL @ 1000 PPB	11/24/21 10:04
5	13M23118.	CAL @ 750 PPB	11/24/21 09:30	6	13M23116.	CAL @ 500 PPB	11/24/21 08:57
7	13M23114.	CAL @ 250 PPB	11/24/21 08:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1152	0.0918	0.0778	0.0779	0.0742	0.0704	0.0686	---	0.0823	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0009	0.0008	0.0008	0.0010	0.0009	0.0009	0.0008	---	0.000910	5.44	0.992	0.996	8.8	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0015	0.0013	0.0014	0.0014	0.0014	0.0016	---	0.00150	9.27	0.997	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0784	0.0756	0.0792	0.0709	0.0701	0.0597	0.0754	---	0.0728	8.51	0.999	0.999	9.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.5 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				13M23280.D				13M23306.D											
Method:				8015				8015											
Calibration Name:				CAL @ 2000PPB				CAL @ 2000 PPB											
Calibration Date/Time				12/16/21 11:20				12/16/21 18:36											
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1973	2000	1.4		1970	2000	1.5												

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27822-001	% Solid:	90	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-014SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/10/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.22	3.6	1	0.5	100	12/16/21	967091621	BNEW	51	MSMS3_7700SWA	
7440-43-9	Cadmium	0.44	ND	1	0.5	100	12/16/21	967091621	BNEW	51	MSMS3_7700SWA	

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27822-001	% Solid:	90	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-014SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/10/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.6	12	1	0.5	50	12/16/21	96708S278005A3		90	P	PEICP3A
7439-92-1	Lead	5.6	150	1	0.5	50	12/16/21	96708S278005A3		90	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96708 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96708 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-36-0	Antimony	2.0	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-38-2	Arsenic	2.0	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-41-7	Beryllium	0.60	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-42-8	Boron	10	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-43-9	Cadmium	0.60	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7782-49-2	Selenium	2.5	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-21-3	Silicon	10	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-28-0	Thallium	2.5	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-31-5	Tin	10	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-32-6	Titanium	5.0	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-62-2	Vanadium	5.0	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	12/16/21	96708	S278005A3	61	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 96709 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 96709 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	12/16/21	96709	1621BNEW	20	MS	S3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/16/21
Data File: S121621BNEW
Prep Batch: 96709
Analytical Method:6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-363697-9	Rec	CCV V-363701-18	Rec	CCV V-363701-30	Rec	CCV V-363701-42	Rec	CCV V-363701-53	Rec		Rec		Rec		Rec
Antimony	50/50	51.52700	103	47.65600	95	47.95800	96	46.65200	93	47.17400	94						
Arsenic	50/50	52.78100	106	49.78200	100	50.12800	100	49.42300	99	48.71000	97						
Beryllium	50/50	52.15500	104	49.23900	98	47.72200	95	47.23700	94	46.40200	93						
Cadmium	50/50	52.76000	106	49.61300	99	49.57900	99	49.05800	98	49.36400	99						
Potassium	5000/5000	5310.0070 ^	106	5098.7840 ^	102	5046.7100 ^	101	5020.3490 ^	100	4873.4410 ^	97						
Selenium	50/250	52.46200	105	252.18300	101	250.04900	100	246.78900	99	244.52400	98						
Silver	10/50	10.32200	103	50.40300	101	50.29400	101	49.18900	98	49.94400	100						
Sodium	5000/5000	5309.7260 ^	106	5036.1130 ^	101	4964.5950 ^	99	4979.0250 ^	100	4895.9530 ^	98						
Thallium	50/50	50.14100	100	50.72200	101	50.65400	101	49.61800	99	50.82400	102						
Vanadium	50/50	50.89000	102	50.02400	100	50.10000	100	49.56100	99	49.08100	98						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/16/21
Data File: S121621BNEW
Prep Batch: 96709
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-363702	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-363700	Recovery	Low Limit	High Limit
Magnesium	500	486.764	97	80	120	50000	49801.653	100	90	110
Aluminum	500	516.507	103	80	120	15000	15204.714	101	90	110
Arsenic	1	1 000	100	80	120	500	508.765	102	90	110
Barium	5	4 929	99	80	120	500	503.840	101	90	110
Beryllium	1	1 098	110	80	120	500	484.936	97	90	110
Calcium	500	500 959	100	80	120	50000	53235 148	106	90	110
Cadmium	2	1 989	99	80	120	500	504.917	101	90	110
Cobalt	2	1.910	96	80	120	500	485.995	97	90	110
Chromium	2	2.010	100	80	120	500	504.974	101	90	110
Copper	10	8.707	87	80	120	500	494.801	99	90	110
Silver	1	0.956	96	80	120	500	86.754	17 a	90	110
Potassium	500	489.897	98	80	120	50000	51264.450	103	90	110
Zinc	20	20.477	102	80	120	500	484 502	97	90	110
Manganese	6	5.991	100	80	120	500	512.549	103	90	110
Molybdenum	1	1.024	102	80	120	500	498.103	100	90	110
Sodium	500	459.037	92	80	120	50000	49990.608	100	90	110
Nickel	3	3.023	101	80	120	500	502.792	101	90	110
Lead	2	1.892	95	80	120	500	467.920	94	90	110
Antimony	4	3 803	95	80	120	500	492.141	98	90	110
Selenium	10	9 847	98	80	120	2500	2500.035	100	90	110
Thallium	2	1 919	96	80	120	500	471 712	94	90	110
Vanadium	1	0 937	94	80	120	500	519.629	104	90	110
Iron	500	504 986	101	80	120	50000	49735.042	99	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/16/21
Data File: S278005A3
Prep Batch: 96708
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-16	Rec	CCV V-360409-26	Rec	CCV V-360409-37	Rec	CCV V-360409-48	Rec	CCV V-360409-59	Rec	CCV V-360409-70	Rec	CCV V-360409-81	Rec
Aluminum	5/5	5.00669	100	4.85332	97	4.71538	94	4.71661	94	4.64976	93	4.59822	92	4.59334	92	4.58839	92
Barium	.5/.5	0.49039	98	0.48483	97	0.51009	102	0.50425	101	0.47854	96	0.47069	94	0.47158	94	0.47110	94
Beryllium	.5/.5	0.49331	99	0.48944	98	0.48376	97	0.49065	98	0.48825	98	0.48093	96	0.47882	96	0.47969	96
Calcium	50/50	52.13260	104	51.33230	103	50.44950	101	51.13570	102	50.75020	102	48.84360	98	49.84250	100	49.88510	100
Chromium	.5/.5	0.50272	101	0.49205	98	0.48326	97	0.48907	98	0.48469	97	0.47579	95	0.47795	96	0.47696	95
Cobalt	.5/.5	0.49813	100	0.48433	97	0.47877	96	0.47502	95	0.47357	95	0.46279	93	0.47007	94	0.46792	94
Copper	.5/.5	0.51732	103	0.51818	104	0.51531	103	0.52237	104	0.51886	104	0.50807	102	0.50852	102	0.50607	101
Iron	5/5	5.05333	101	4.93959	99	4.81834	96	4.86541	97	4.82611	97	4.74368	95	4.74618	95	4.75483	95
Lead	.5/.5	0.50950	102	0.50379	101	0.49985	100	0.49296	99	0.48649	97	0.48000	96	0.48933	98	0.49133	98
Magnesium	50/50	50.64810	101	50.13920	100	49.24010	98	50.01930	100	49.70110	99	49.00340	98	48.86230	98	49.04100	98
Manganese	.5/.5	0.50612	101	0.49812	100	0.48909	98	0.49542	99	0.49192	98	0.48393	97	0.48355	97	0.48401	97
Nickel	.5/.5	0.50237	100	0.49062	98	0.48898	98	0.48601	97	0.48638	97	0.47258	95	0.48046	96	0.47727	95
Zinc	.5/.5	0.54318	109	0.53849	108	0.53876	108	0.53642	107	0.53887	108	0.52822	106	0.54058	108	0.53989	108

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-91	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	5/5	5.00669	100	4.64051	93						
Barium	.5/.5	0.49039	98	0.48019	96						
Beryllium	.5/.5	0.49331	99	0.49021	98						
Calcium	50/50	52.13260	104	50.73860	101						
Chromium	.5/.5	0.50272	101	0.48477	97						
Cobalt	.5/.5	0.49813	100	0.48070	96						
Copper	.5/.5	0.51732	103	0.51319	103						
Iron	5/5	5.05333	101	4.84911	97						
Lead	.5/.5	0.50950	102	0.50328	101						
Magnesium	50/50	50.64810	101	50.21570	100						
Manganese	.5/.5	0.50612	101	0.49292	99						
Nickel	.5/.5	0.50237	100	0.49519	99						
Zinc	.5/.5	0.54318	109	0.56239	112c						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/16/21
Data File: S278005A3
Prep Batch: 96693 | 96208
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360414	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	5.14385	103	80	120	500	463.237	93	90	110
Aluminum	2.0	1.88696	94	80	120	500	464.989	93	90	110
Arsenic	0.04	0.0427610	107	80	120	10	9.32524	93	90	110
Boron	0.2	0.224321	112	80	120	5	4.35463	87 a	90	110
Barium	0.1	0.0960862	96	80	120	10	9.36319	94	90	110
Beryllium	0.012	0.0142537	119	80	120	5	4.65070	93	90	110
Calcium	10	9.85028	99	80	120	500	445.445	89 a	90	110
Cadmium	0.012	0.0131713	110	80	120	5	4.79948	96	90	110
Cerium	0.2	0.173	86	80	120	25	20.29	81 a	90	110
Cobalt	0.025	0.0240515	96	80	120	5	4.38666	88 a	90	110
Chromium	0.05	0.0524196	105	80	120	10	9.09356	91	90	110
Copper	0.05	0.0535592	107	80	120	10	9.71389	97	90	110
Silver	0.015	0.0141896	95	80	120	1	0.981470	98	90	110
Potassium	NA	10.3609		80	120	200	-727.860	-360 a	90	110
Zinc	0.1	0.0963936	96	80	120	10	8.94355	89 a	90	110
Manganese	0.1	0.0984286	98	80	120	10	9.36063	94	90	110
Molybdenum	0.025	0.0242177	97	80	120	10	9.35139	94	90	110
Sodium	NA	2.91980		80	120	1000	1033.18	103	90	110
Nickel	0.05	0.0494922	99	80	120	10	8.67368	87 a	90	110
Lead	0.05	0.0500855	100	80	120	10	9.11397	91	90	110
Antimony	0.04	0.0417587	104	80	120	5	4.96255	99	90	110
Selenium	0.05	0.0566314	113	80	120	5	4.81876	96	90	110
Silicon	0.2	0.240653	120	80	120	25	24.3859	98	90	110
Tin	0.2	0.201712	101	80	120	10	9.18944	92	90	110
Titanium	0.1	0.0985671	99	80	120	10	9.43783	94	90	110
Thallium	0.05	0.0522297	104	80	120	5	4.76445	95	90	110
Vanadium	0.1	0.0935456	94	80	120	10	8.67892	87 a	90	110
Iron	2.0	1.93503	97	80	120	400	364.850	91	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/17/21
Data File: S28009C3
Prep Batch: 96708
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-12	Rec	CCV V-360409-22	Rec	CCV V-360409-31	Rec	CCV V-360409-43	Rec		Rec		Rec		Rec
Calcium	50/50	52.65860	105	51.33160	103	52.08050	104	51.03110	102	49.69810	99						
Lead	.5/.5	0.52863	106	0.50447	101	0.50252	101	0.49905	100	0.48859	98						
Zinc	.5/.5	0.52814	106	0.50929	102	0.51610	103	0.50755	102	0.49991	100						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/17/21
Data File: S28009C3
Prep Batch: 96708
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360414	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	5.27588	106	80	120	500	487.964	98	90	110
Aluminum	2.0	2.02293	101	80	120	500	475.893	95	90	110
Arsenic	0.04	0.0377347	94	80	120	10	10.2555	103	90	110
Boron	0.2	0.216659	108	80	120	5	4.73879	95	90	110
Barium	0.1	0 0992493	99	80	120	10	9.93318	99	90	110
Beryllium	0.012	0 0137354	114	80	120	5	4.85661	97	90	110
Calcium	10	10 3303	103	80	120	500	467 364	93	90	110
Cadmium	0 012	0 0128941	107	80	120	5	5.09656	102	90	110
Cerium	0.2	1 240	620 a	80	120	25	-14.22	-57 a	90	110
Cobalt	0 025	0 0245777	98	80	120	5	4.64609	93	90	110
Chromium	0.05	0.0451769	90	80	120	10	9.54380	95	90	110
Copper	0.05	0.0544829	109	80	120	10	9.97414	100	90	110
Silver	0.015	0.0134900	90	80	120	1	1.01325	101	90	110
Potassium	NA	-629.827		80	120	200	5509.06	a 2750	90	110
Zinc	0 1	0.0995995	100	80	120	10	9.25820	93	90	110
Manganese	0.1	0 101079	101	80	120	10	9 86633	99	90	110
Molybdenum	0.025	0.0260844	104	80	120	10	10.0016	100	90	110
Sodium	NA	2 69197		80	120	1000	1081.17	108	90	110
Nickel	0 05	0 0507767	102	80	120	10	9.29301	93	90	110
Lead	0 05	0 0494311	99	80	120	10	9.81109	98	90	110
Antimony	0.04	0.0408508	102	80	120	5	5.25800	105	90	110
Selenium	0.05	0.0532186	106	80	120	5	5.16402	103	90	110
Silicon	0.2	0.270867	135 a	80	120	25	24.6301	99	90	110
Tin	0.2	0 203973	102	80	120	10	9.87535	99	90	110
Titanium	0.1	0.100833	101	80	120	10	10.0399	100	90	110
Thallium	0 05	0.0633185	127 a	80	120	5	4.81881	96	90	110
Vanadium	0.1	0 0987765	99	80	120	10	9 53891	95	90	110
Iron	2 0	2.00115	100	80	120	400	381.782	95	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/16/21
Data File: S121621BNEW
Prep Batch: 96709
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-363698-11	CCB V-363698-19	CCB V-363698-31	CCB V-363698-43	CCB V-363698-54	MB 96709-20
Antimony	2U	4U	4U	4U	4U	400U
Arsenic	.5U	1U	1U	1U	1U	100U
Beryllium	.5U	1U	1U	1U	1U	100U
Cadmium	1U	2U	2U	2U	2U	200U
Potassium	250U	500U	500U	500U	500U	50000U
Selenium	5U	10U	10U	10U	10U	1000U
Silver	.5U	1U	1U	1U	1U	100U
Sodium	250U	500U	500U	500U	500U	50000U
Thallium	1U	2U	2U	2U	2U	200U
Vanadium	.5U	1U	1U	1U	1U	100U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/16/21
Data File: S278005A3
Prep Batch: 96708
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-6	CCB V-360404-17	CCB V-360404-27	CCB V-360404-38	CCB V-360404-49	CCB V-360404-60	CCB V-360404-71	CCB V-360404-82
Aluminum	1U	2U	2U	2U	2U	2U	2U	2U
Barium	.05U	.1U	.1U	.1U	.1U	.1U	.1U	.1U
Beryllium	.006U	.012U	.012U	.012U	.012U	.012U	.012U	.012U
Calcium	5U	10U	10U	10U	10U	10U	10U	10U
Chromium	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Cobalt	.0125U	.025U	.025U	.025U	.025U	.025U	.025U	.025U
Copper	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Iron	1U	2U	2U	2U	2U	2U	2U	2U
Lead	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Magnesium	2.5U	5U	5U	5U	5U	5U	5U	5U
Manganese	.05U	.1U	.1U	.1U	.1U	.1U	.1U	.1U
Nickel	.025U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Zinc	.05U	.1U	.1U	.1U	.1U	.1U	.1U	.1U

Analyte	CCB V-360404-92	MB 96708 (100)-61
Aluminum	2U	100U
Barium	.1U	5U
Beryllium	.012U	.6U
Calcium	10U	500U
Chromium	.05U	2.5U
Cobalt	.025U	1.3U
Copper	.05U	2.5U
Iron	2U	100U
Lead	.05U	2.5U
Magnesium	5U	250U
Manganese	.1U	5U
Nickel	.05U	2.5U
Zinc	.1U	5U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/17/21
Data File: S28009C3
Prep Batch: 96708
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-6	CCB V-360404-13	CCB V-360404-23	CCB V-360404-32	CCB V-360404-44
Calcium	5 U	10 U	10 U	10 U	10 U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/16/21
Data File: S121621BNEW
Prep Batch: 96709
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-363699-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	49527.71	99							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	155373.7	104							
Iron	125000	123017.9	98							
Magnesium	50000	49987.65	100							
Potassium	50000	50651.82	101							
Selenium	0	U								
Silver	0	U								
Sodium	125000	123675.8	99							
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/16/21
Data File: S278005A3
Prep Batch: 96708
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	479.184	96							
Barium	0	U								
Beryllium	0	U								
Calcium	500	472.853	95							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	190.952	95							
Lead	0	U								
Magnesium	500	482.373	96							
Manganese	0	U								
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/17/21
Data File: S28009C3
Prep Batch: 96708
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121003

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	497.694	100							
Calcium	500	493.149	99							
Iron	200	197.763	99							
Lead	0	U								
Magnesium	500	520.037	104							
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96708

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96708

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96708	1	S278005A	63	0.6543	.734	89		67	125
Lead	96708	1	S278005A	63	1.8444	1.86	99		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96708

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96708	1	S278005A	62	0.6508	.734	89		67	125
Lead	96708	1	S278005A	62	1.6697	1.86	90		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96708	1	S278005A	67	S278005A	64	0.5200	0.0805	0.5	88		75	125
Lead	96708	1	S278005A	67	S278005A	64	0.5218	0.0823	0.5	88		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	96708	1	S278005A	66	S278005A	64	0.5554	0.0805	0.5	95		75	125
Lead	96708	1	S278005A	66	S278005A	64	0.5985	0.0823	0.5	103		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96708

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27927-007

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S278005A	68	S278005A	64	0.5417	0.0805	0.50	92		75	125
Lead	1	S278005A	68	S278005A	64	0.5457	0.0823	0.50	93		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96709

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96709

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96709	1	S121621B	22	224.2580	225	100		65	121
Cadmium	96709	1	S121621B	22	256.3290	249	103		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 96709

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96709	1	S121621B	21	222.9420	225	99		65	121
Cadmium	96709	1	S121621B	21	250.0060	249	100		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96709	1	S121621B	27	S121621B	23	229.7670	3.9750	250	90		75	125
Cadmium	96709	1	S121621B	27	S121621B	23	240.6780	2U	250	96		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	96709	1	S121621B	26	S121621B	23	235.1150	3.9750	250	92		75	125
Cadmium	96709	1	S121621B	26	S121621B	23	243.7050	2U	250	97		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 96709

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27927-007

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S121621B	28	S121621B	23	52.7190	3.9750	50	97		75	125
Cadmium	1	S121621B	28	S121621B	23	48.8810	2U	50	98		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96708

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96708

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96708	S278005A	63	S278005A	62	0.6543	0.6508	.53		20
Lead	96708	S278005A	63	S278005A	62	1.8444	1.6697	9.9		20

TxtQcType: MR Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96708	S278005A	65	S278005A	64	0.0724	0.0805	11		20
Lead	96708	S278005A	65	S278005A	64	0.0617	0.0823	29	b	20

TxtQcType: MSD Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	96708	S278005A	67	S278005A	66	0.5200	0.5554	6.6		20
Lead	96708	S278005A	67	S278005A	66	0.5218	0.5985	14		20

TxtQcType: SD Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	96708	S278005A	69	S278005A	64	5	0.0152	0.0805	5.3		10
Lead	96708	S278005A	69	S278005A	64	5	0.0135	0.0823	18	c	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 96709

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 96709

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96709	S121621B	22	S121621B	21	224.2580	222.9420	.59	20
Cadmium	96709	S121621B	22	S121621B	21	256.3290	250.0060	2.5	20

TxtQcType: MR Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96709	S121621B	24	S121621B	23	3.4530	3.9750	14	20
Cadmium	96709	S121621B	24	S121621B	23	2U	2U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	96709	S121621B	27	S121621B	26	229.7670	235.1150	2.3	20
Cadmium	96709	S121621B	27	S121621B	26	240.6780	243.7050	1.2	20

TxtQcType: SD Matrix: SOIL SampleID: AD27927-007

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	96709	S121621B	25	S121621B	23	5	0.8050	3.9750	1.3		20
Cadmium	96709	S121621B	25	S121621B	23	5	0.0380	0.2230	15	c	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A ~~3050B~~ 200.7/200.8 OTHER_____

Batch No.: 178021 Analyst: A~S

QC Number: 96709 Prep Date: 12/10/21

Matrix: Soil 6020 Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		–	
LCS	0.1g					–	
LCSD	1					–	
1. 27927-007	0.5g						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR -007							
MS -007							Balance used: 039
MSD -007							Pipettes used: 153, 149
2. 27928-013							
3. -014							Hot Block used: 5
4. -017							
5. -028							
6. -041							
7. -042							
8. 27808-002							
9. -008							
10. 27927-005							
11. 27925-002							
12. -004							
13. 27924-004							
14. -006							
15. -008							
16. 27844-001							
17. 27909-001							
18. 27822-001							
19.							
20.							

Hot Plate Temperature: 933 C (90-95° C) Start Time: 6:00~ End Time: 11:20~

	Volume mL	Lot #
LCS, LCSD	0.1g	V-14201
LLLCS, LLLCSD		V-
MS, MSD	0.5mL	V-13729, 13730
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-14296
HCl	1.0	V-14217
H_2O_2	1.5	V-14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By A~S Date 12/16/21

Received By [illegible] Date 12/16/21

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Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 28020 Analyst: ANS

QC Number: 96708 Prep Date: 12/16/21

Matrix: Soil Reviewed By: DL.

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	Soil	Soil				–	
LCS	0.5g					–	
LCSD						–	
1. 27927-007							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -007							
MR -007							
MS -007							Balance used: 039
MSD -007							Pipettes used: 149, 153
2. 27928-013							
3. -014							Hot Block used: 9
4. -027							
5. -028							
6. -041							
7. -042							
8. 27808-002							
9. -008							
10. 27927-005							
11. 27925-007							
12. -004							
13. 27924-004							
14. -006							
15. -008							
16. 27844-001							
17. 27909-001							
18. 27822-001							
19. 27887-002							
20.							

Hot Plate Temperature: 92.2 C (90-95° C) Start Time: 8:00 End Time: 11:30

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.2ml	V-13724, 13730, 35896
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-14296
HCl	5.0	V-14217
H_2O_2	1-5	V-14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By ANS Date 12/16/21

Received By DL Date 12/20/21

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Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S121621BNEW.txt

Analysis Date: 12/16/21 **Instrument** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	14:39	1		SOIL	SOIL	SW846	96709		0
RINSE	1	NA	14:43	2		SOIL	SOIL	SW846	96709		0
CalBlk V-363691	1	ISBLK	14:48	3		SOIL	SOIL				V-363691(Cal Blk WARNING)
CalStd1 V-363692	1	CAL	14:52	4							V-363692(Cal Std-1 WARNING)
CalStd2 V-363693	1	CAL	14:57	5							V-363693(Cal Std-2 WARNING)
CalStd3 V-363694	1	CAL	15:01	6							V-363694(Cal Std-3 WARNING)
CalStd4 V-363695	1	CAL	15:06	7							V-363695(Cal Std-4 WARNING)
CalStd5 V-363696	1	CAL	15:10	8							V-363696(Cal Std-5 WARNING)
ICV V-363697	1	ICV	15:15	9							V-363697(ICV WARNING)
LLICV V-363702	1	LLICV	15:19	10		SOIL	SOIL	SW846	96709		V-363702(LL-ICV/CCV SOIL WARNING)
ICB V-363698	1	ICB	15:23	11							V-363698(ICB/CCB WARNING)
ICSA V-363699	1	ICSA	15:28	12							V-363699(ICSA WARNING)
RINSE	1	NA	15:32	13		SOIL	SOIL	SW846	96709		0
LRS V-363700	1	LRS	15:37	14		SOIL	SOIL	SW846	96709	Ag fail	V-363700(LRS WARNING)
RINSE	1	NA	15:41	15		SOIL	SOIL	SW846	96709		0
RINSE	1	NA	15:45	16		SOIL	SOIL	SW846	96709		0
RINSE	1	NA	15:50	17		SOIL	SOIL	SW846	96709		0
CCV V-363701	1	CCV	15:54	18							V-363701(CCV WARNING)
CCB V-363698	1	CCB	15:59	19							V-363698(ICB/CCB WARNING)
MB 96709	1	MB	16:03	20		SOIL	SOIL	SW846	96709		0
LCS 96709	1	LCS	16:08	21		SOIL	SOIL	SW846	96709		0
LCS MR 96709	1	LCS	16:12	22		SOIL	SOIL	SW846	96709		0
AD27927-007	1	SMP	16:16	23	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27927-007	1	MR	16:20	24	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27927-007	5	SD	16:25	25	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27927-007	1	MS	16:29	26	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27927-007	1	MSD	16:33	27	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27927-007	1	PS	16:38	28	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
RINSE	1	NA	16:42	29		SOIL	SOIL	SW846	96709		0
CCV V-363701	1	CCV	16:46	30							V-363701(CCV WARNING)
CCB V-363698	1	CCB	16:51	31							V-363698(ICB/CCB WARNING)
AD27928-013	1	SMP	16:55	32	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27928-014	1	SMP	17:00	33	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27928-027	1	SMP	17:04	34	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27928-028	1	SMP	17:08	35	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27928-041	1	SMP	17:13	36	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27928-042	1	SMP	17:17	37	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27808-002	1	SMP	17:22	38	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27808-008	1	SMP	17:26	39	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27927-005	1	SMP	17:30	40	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
RINSE	1	NA	17:34	41		SOIL	SOIL	SW846	96709		0
CCV V-363701	1	CCV	17:39	42							V-363701(CCV WARNING)
CCB V-363698	1	CCB	17:43	43							V-363698(ICB/CCB WARNING)
AD27925-002	1	SMP	17:48	44		SOIL	SOIL	SW846	96709		0
AD27925-004	1	SMP	17:52	45		SOIL	SOIL	SW846	96709		0
AD27924-004	1	SMP	17:57	46	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27924-006	1	SMP	18:01	47	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27924-008	1	SMP	18:05	48	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27844-001	1	SMP	18:10	49	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27909-001	1	SMP	18:14	50	MET-TAL6020S	SOIL	SOIL	SW846	96709		0
AD27822-001	1	SMP	18:19	51	MET-RCRA-MS	SOIL	SOIL	SW846	96709		0
RINSE	1	NA	18:23	52		SOIL	SOIL	SW846	96709		0
CCV V-363701	1	CCV	18:28	53							V-363701(CCV WARNING)
CCB V-363698	1	CCB	18:32	54							V-363698(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 12/17/2021 11:01:48 AM

Run ok. Report Ag, As, Be, Cd, K, Na, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 50 12/16/21

Standard/Batch/SnCl2 Lot #:

12/23/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S278005A3.txt

Analysis Date: 12/16/21 **Instrument** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-360404	1	CAL	09:59	1							V-360404(ICB/CCB)
CALST2 V-360414	1	CAL	10:03	2							V-360414(LLICV/LLCCV soil)
CALST3 V-360405	1	CAL	10:06	3							V-360405(ICS3 - Middle Std)
CALST4 V-360406	1	CAL	10:09	4							V-360406(ICS4 High std)
ICV V-360409	1	ICV	10:13	5							V-360409(CCV)
ICB V-360404	1	ICB	10:16	6							V-360404(ICB/CCB)
LRS V-360412	1	NA	10:20	7	MET-TAL6010S	SOIL	SOIL	SW846	96693		V-360412(LRS)
ICS3 V-360405	1	ICS	10:24	8							V-360405(ICS3 - Middle Std)
RINSE	1	NA	10:27	9	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
LRS V-360412	1	LRS	10:31	10	MET-TAL6010S	SOIL	SOIL	SW846	96693	Ca,Zn>LRS	V-360412(LRS)
LLICV V-360414	1	LLICV	10:36	11	MET-TAL6010S	SOIL	SOIL	SW846	96693		V-360414(LLICV/LLCCV soil)
ICSA V-360410	1	ICSA	10:39	12							V-360410(ICSA)
AD27903-001	1	SMP	10:44	13	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27887-002	1	SMP	10:47	14	MET-2-SOIL	SOIL	SOIL	SW846	96708		0
AD27849-011	5	SMP	10:50	15	MET-TAL6010S	SOIL	SOIL	SW846	96688	Pb reported	0
CCV V-360409	1	CCV	10:54	16							V-360409(CCV)
CCB V-360404	1	CCB	10:57	17							V-360404(ICB/CCB)
AD27854-004	1	SMP	11:01	18	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
AD27854-006	1	SMP	11:06	19	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
AD27855-002	1	SMP	11:10	20	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
AD27855-004	1	SMP	11:14	21	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
AD27855-006	1	SMP	11:18	22	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
AD27856-002	1	SMP	11:22	23	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
AD27856-004	1	SMP	11:26	24	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
AD27856-006	1	SMP	11:31	25	MET-PP6010S	SOIL	SOIL	SW846	96677	Pb,Zn reported	0
CCV V-360409	1	CCV	11:35	26							V-360409(CCV)
CCB V-360404	1	CCB	11:38	27							V-360404(ICB/CCB)
MB 96693 (100)	1	MB	11:42	28		SOIL	SOIL	SW846	96693		0
LCS 96693	1	LCS	11:45	29		SOIL	SOIL	SW846	96693	Zn>LRS not reported	0
LCS MR 96693	1	LCS	11:49	30		SOIL	SOIL	SW846	96693	Zn>LRS not reported	0
AD27886-013	1	SMP	11:54	31	MET-TAL6010S	SOIL	SOIL	SW846	96693	Mn,Zn>LRS not reported	0
AD27886-013	1	MR	11:58	32	MET-TAL6010S	SOIL	SOIL	SW846	96693	Mn,Zn>LRS not reported	0
AD27886-013	1	MS	12:01	33	MET-TAL6010S	SOIL	SOIL	SW846	96693	Mn,Zn>LRS not reported	0
AD27886-013	1	MSD	12:06	34	MET-TAL6010S	SOIL	SOIL	SW846	96693	Mn,Zn>LRS not reported	0
AD27886-013	1	PS	12:10	35	MET-TAL6010S	SOIL	SOIL	SW846	96693	Mn,Zn>LRS not reported	0
AD27886-013	5	SD	12:14	36	MET-TAL6010S	SOIL	SOIL	SW846	96693	Mn,Zn>LRS not reported	0
CCV V-360409	1	CCV	12:18	37							V-360409(CCV)
CCB V-360404	1	CCB	12:21	38							V-360404(ICB/CCB)
AD27882-001	1	SMP	12:24	39	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27882-002	1	SMP	12:28	40	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27882-003	1	SMP	12:32	41	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27882-004	1	SMP	12:36	42	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27882-005	1	SMP	12:39	43	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27882-006	1	SMP	12:43	44	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27882-011	1	SMP	12:47	45	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27882-013	1	SMP	12:51	46	MET-TAL6010S	SOIL	SOIL	SW846	96693	Zn>LRS not reported	0
AD27878-002	1	SMP	12:55	47	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
CCV V-360409	1	CCV	13:00	48							V-360409(CCV)
CCB V-360404	1	CCB	13:03	49							V-360404(ICB/CCB)
AD27878-003	1	SMP	13:07	50	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27878-006	1	SMP	13:10	51	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27878-008	1	SMP	13:14	52	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27878-009	1	SMP	13:18	53	MET-TAL6010S	SOIL	SOIL	SW846	96693	Zn>LRS not reported	0
AD27886-014	1	SMP	13:21	54	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27886-027	1	SMP	13:25	55	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27886-028	1	SMP	13:29	56	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27886-041	1	SMP	13:33	57	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
AD27886-042	1	SMP	13:37	58	MET-TAL6010S	SOIL	SOIL	SW846	96693		0
CCV V-360409	1	CCV	13:41	59							V-360409(CCV)
CCB V-360404	1	CCB	13:45	60							V-360404(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 12/17/2021 6:50:45 AM

Run is OK All elements reported

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

12/27/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S278005A3.txt

Analysis Date: 12/16/21 **Instrument** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
MB 96708 (100)	1	MB	13:48	61		SOIL	SOIL	SW846	96708		0
LCS 96708	1	LCS	13:52	62		SOIL	SOIL	SW846	96708	Zn>LRS not reported	0
LCS MR 96708	1	LCS	13:56	63		SOIL	SOIL	SW846	96708	Zn>LRS not reported	0
AD27927-007	1	SMP	14:00	64	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27927-007	1	MR	14:03	65	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27927-007	1	MS	14:07	66	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27927-007	1	MSD	14:10	67	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27927-007	1	PS	14:14	68	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27927-007	5	SD	14:17	69	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
CCV V-360409	1	CCV	14:21	70							V-360409(CCV)
CCB V-360404	1	CCB	14:24	71							V-360404(ICB/CCB)
AD27928-013	1	SMP	14:28	72	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27928-014	1	SMP	14:31	73	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27928-027	1	SMP	14:35	74	MET-TAL6010S	SOIL	SOIL	SW846	96708	Pb>LRS not reported	0
AD27928-028	1	SMP	14:39	75	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27928-041	1	SMP	14:44	76	MET-TAL6010S	SOIL	SOIL	SW846	96708	Ca>LRS not reported	0
AD27928-042	1	SMP	14:48	77	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
AD27808-002	1	SMP	14:51	78	MET-TAL6010S	SOIL	SOIL	SW846	96708	Zn>LRS not reported	0
AD27808-008	1	SMP	14:55	79	MET-TAL6010S	SOIL	SOIL	SW846	96708	Zn>LRS not reported	0
AD27927-005	1	SMP	14:59	80	MET-TAL6010S	SOIL	SOIL	SW846	96708		0
CCV V-360409	1	CCV	15:03	81							V-360409(CCV)
CCB V-360404	1	CCB	15:06	82							V-360404(ICB/CCB)
AD27925-002	1	SMP	15:10	83		SOIL	SOIL	SW846	96708	Ca>LRS Ca,Zn not reported	0
AD27925-004	1	SMP	15:14	84		SOIL	SOIL	SW846	96708	Zn>LRS Zn not reported	0
AD27924-004	1	SMP	15:18	85	MET-TAL6010S	SOIL	SOIL	SW846	96708	Zn not reported	0
AD27924-006	1	SMP	15:22	86	MET-TAL6010S	SOIL	SOIL	SW846	96708	Zn not reported	0
AD27924-008	1	SMP	15:26	87	MET-TAL6010S	SOIL	SOIL	SW846	96708	Zn not reported	0
AD27844-001	1	SMP	15:29	88	MET-TAL6010S	SOIL	SOIL	SW846	96708	Zn not reported	0
AD27909-001	1	SMP	15:33	89	MET-TAL6010S	SOIL	SOIL	SW846	96708	Zn not reported	0
AD27822-001	1	SMP	15:37	90	MET-RCRA-S	SOIL	SOIL	SW846	96708	Zn not reported	0
CCV V-360409	1	CCV	15:41	91						Zn failed	V-360409(CCV)
CCB V-360404	1	CCB	15:44	92							V-360404(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 12/17/2021 6:50:45 AM

Run is OK All elements reported

12/27/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S121621BN Sample ID: CalBlk V-363691 Sample Date 12/16/21 Sample Time: 14:48

IS ID:	Area	Area Limit		
Ho-1	2951286.38	2065900.466	-	3836672.294
In-1	2548142.53	1783699.771	-	3312585.289
Sc-1	1676813.46	1173769.422	-	2179857.498
Tb-1	3082837.52	2157986.264	-	4007688.776

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	2951286.	2548142.	1676813.	3082837.				
SMP	RINSE	1	2842972.	2504918.	1639390.	2997172.				
SMP	RINSE	2	2827459.	2468846.	1614293.	2964178.				
CAL	CalStd1 V-36369	4	2944554.	2556340.	1680497.	3110265.				
CAL	CalStd2 V-36369	5	2906857.	2505616.	1649466.	3082209.				
CAL	CalStd3 V-36369	6	2952295.	2542545.	1661866.	3072284.				
CAL	CalStd4 V-36369	7	2920914.	2504159.	1640256.	3093603.				
CAL	CalStd5 V-36369	8	2924506.	2494679.	1645787.	3051147.				
ICV	ICV V-363697	9	2932381.	2497479.	1657882.	3091134.				
LLICV	LLICV V-363702	10	2948979.	2539825.	1651780.	3096032.				
ICB	ICB V-363698	11	2918623.	2523742.	1652203.	3081996.				
ICSA	ICSA V-363699	12	2891413.	2330739.	1595618.	3026600.				
SMP	RINSE	13	2954697.	2592597.	1688899.	3113013.				
LRS	LRS V-363700	14	2925507.	2459490.	1673845.	3075287.				
SMP	RINSE	15	2932208.	2563891.	1693443.	3099869.				
SMP	RINSE	16	2896100.	2529482.	1671874.	3059488.				
SMP	RINSE	17	2890990.	2536972.	1667619.	3052985.				
CCV	CCV V-363701	18	2977558.	2549257.	1706321.	3139159.				
CCB	CCB V-363698	19	2981572.	2529178.	1678715.	3125504.				
MB	MB 96709	20	3004601.	2571719.	1673968.	3166210.				
LCS	LCS 96709	21	3096705.	2637328.	1800650.	3249080.				
MR	LCS MR 96709	22	3050565.	2613583.	1796619.	3209997.				
SMP	AD27927-007	23	3139204.	2631025.	1995561.	3308054.				
MR	AD27927-007	24	3131810.	2648012.	2010961.	3336223.				
SD	AD27927-007	25	3043837.	2603334.	1777623.	3227048.				
MS	AD27927-007	26	3107292.	2626588.	1966546.	3293826.				
MSD	AD27927-007	27	3143747.	2625189.	1966971.	3317013.				
PS	AD27927-007	28	3158301.	2610923.	1984009.	3331477.				
SMP	RINSE	29	2956352.	2599454.	1684715.	3122104.				
CCV	CCV V-363701	30	3053475.	2597827.	1701189.	3204663.				
CCB	CCB V-363698	31	3023585.	2590825.	1681642.	3166723.				
SMP	AD27928-013	32	3177428.	2579635.	2220913. *	3335966.				
SMP	AD27928-014	33	3221042.	2622701.	2202062. *	3377450.				
SMP	AD27928-027	34	3072606.	2484297.	2025547.	3231665.				
SMP	AD27928-028	35	3140506.	2561167.	2072552.	3295552.				
SMP	AD27928-041	36	3131708.	2545975.	2076954.	3293739.				
SMP	AD27928-042	37	3156736.	2569871.	2148011.	3313950.				
SMP	AD27808-002	38	3110473.	2589994.	2051217.	3302188.				
SMP	AD27808-008	39	3100345.	2663121.	2051029.	3278752.				
SMP	AD27927-005	40	3108752.	2532871.	2094433.	3267377.				
SMP	RINSE	41	2907518.	2549034.	1662761.	3075809.				
CCV	CCV V-363701	42	2990127.	2543985.	1674405.	3139180.				
CCB	CCB V-363698	43	2951817.	2514522.	1636082.	3107902.				
SMP	AD27925-002	44	3341190.	2529710.	2001956.	3559257.				
SMP	AD27925-004	45	3155883.	2552933.	2079861.	3289686.				
SMP	AD27924-004	46	3106349.	2554512.	2072587.	3255225.				
SMP	AD27924-006	47	3087600.	2560161.	1911234.	3243433.				
SMP	AD27924-008	48	3101160.	2551385.	2010806.	3298866.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AD27844-001	49	3224702.	2526544.	1915819.		3345656.
SMP	AD27909-001	50	3051990.	2486297.	2039284.		3210974.
SMP	AD27822-001	51	3044890.	2503374.	2287466.	*	3214052.
SMP	RINSE	52	2889612.	2457984.	1605586.		3030823.
CCV	CCV V-363701	53	2983052.	2514898.	1641091.		3134600.
CCB	CCB V-363698	54	2967216.	2512647.	1629145.		3104328.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S121621BN Sample ID: CalBlk V-363691 Sample Date 12/16/21 Sample Time: 14:48

IS ID:	Area	Area Limit		
Ho-2	1913038.03	1339126.621	-	2486949.439
In-2	650984.54	455689.178	-	846279.902
Sc-2	78935.91	55255.137	-	102616.683
Tb-2	1946651.33	1362655.931	-	2530646.729

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	1913038.	650984.5	78935.91	1946651.				
SMP	RINSE	1	1915863.	665205.1	78311.21	1970628.				
SMP	RINSE	2	1884397.	657501.2	78050.08	1935770.				
CAL	CalStd1 V-36369	4	1906820.	646335.1	77477.61	1953517.				
CAL	CalStd2 V-36369	5	1921519.	653390.8	77692.83	1954191.				
CAL	CalStd3 V-36369	6	1927342.	654119.7	77510.29	1964325.				
CAL	CalStd4 V-36369	7	1894057.	640940.4	76750.02	1952166.				
CAL	CalStd5 V-36369	8	1923031.	638004.9	76204.61	1971436.				
ICV	ICV V-363697	9	1921881.	647268.2	77387.55	1956834.				
LLICV	LLICV V-363702	10	1911807.	656440.7	77558.93	1952722.				
ICB	ICB V-363698	11	1919016.	651332.4	76487.02	1964396.				
ICSA	ICSA V-363699	12	1864468.	594886.1	74578.56	1905913.				
SMP	RINSE	13	1978090.	680952.5	80042.67	2022942.				
LRS	LRS V-363700	14	1916342.	629755.2	77704.46	1942872.				
SMP	RINSE	15	1935888.	686359.3	81600.04	2007769.				
SMP	RINSE	16	1953496.	680694.4	80161.08	1995133.				
SMP	RINSE	17	1948283.	676865.3	80314.95	1985994.				
CCV	CCV V-363701	18	1935534.	658691.9	78631.28	1978432.				
CCB	CCB V-363698	19	1947607.	661077.2	78540.86	1980810.				
MB	MB 96709	20	1934079.	653104.2	76694.60	1974967.				
LCS	LCS 96709	21	1986346.	667331.5	82886.00	2035859.				
MR	LCS MR 96709	22	1992709.	671331.2	84490.59	2027374.				
SMP	AD27927-007	23	2067672.	672398.5	94091.12	2112010.				
MR	AD27927-007	24	2050511.	675297.1	93394.94	2103879.				
SD	AD27927-007	25	2011095.	690795.9	84304.96	2060833.				
MS	AD27927-007	26	1993802.	660444.3	90548.22	2033323.				
MSD	AD27927-007	27	1993686.	658722.3	89446.67	2036587.				
PS	AD27927-007	28	2041659.	665168.6	94035.16	2084790.				
SMP	RINSE	29	1987990.	693834.1	80717.57	2020533.				
CCV	CCV V-363701	30	1953968.	658209.9	78612.52	2001425.				
CCB	CCB V-363698	31	1976497.	668680.8	78284.36	2003695.				
SMP	AD27928-013	32	2054665.	655413.2	106123.6 *	2101945.				
SMP	AD27928-014	33	2053594.	663076.0	105019.6 *	2101703.				
SMP	AD27928-027	34	1964248.	622676.6	93428.71	1990663.				
SMP	AD27928-028	35	2015126.	649977.3	97936.83	2065536.				
SMP	AD27928-041	36	1990527.	634893.8	96653.34	2034238.				
SMP	AD27928-042	37	2006214.	641443.3	100483.3	2052684.				
SMP	AD27808-002	38	2018411.	660110.8	96887.42	2057891.				
SMP	AD27808-008	39	1994031.	680622.7	95439.82	2031640.				
SMP	AD27927-005	40	2000842.	643522.6	99328.52	2033613.				
SMP	RINSE	41	1941169.	671164.3	78578.69	1989802.				
CCV	CCV V-363701	42	1925076.	648804.3	77917.43	1961412.				
CCB	CCB V-363698	43	1924659.	644814.3	76834.02	1943542.				
SMP	AD27925-002	44	2133827.	633789.8	93974.67	2184904.				
SMP	AD27925-004	45	1999773.	638023.8	98548.82	2050415.				
SMP	AD27924-004	46	1985367.	641976.9	97628.60	2017613.				
SMP	AD27924-006	47	1977506.	644210.3	88685.30	2028006.				
SMP	AD27924-008	48	1993397.	639284.5	94093.17	2053367.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AD27844-001	49	2074620.	633770.1	88260.75		2075749.
SMP	AD27909-001	50	1960507.	621764.4	94597.23		2006882.
SMP	AD27822-001	51	1946122.	623532.4	107219.8	*	1979971.
SMP	RINSE	52	1924269.	654596.9	75360.32		1969473.
CCV	CCV V-363701	53	1917279.	636231.9	75114.86		1953223.
CCB	CCB V-363698	54	1941190.	639132.7	75530.82		1948610.

* Indicates Internal Standard Area outside of limits

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1121003**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD27822-001	SB-014SS	Soil/Terracore	1	90	Percent			12/12/21	12/10/21	12/09/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12639

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD27834-001	85	84.98677	Percent	1.28	16.40	14.13	12/12/21	disham	2.6	5
Sample	AD27822-001	90	89.70935	Percent	1.30	14.03	12.72	12/12/21	disham		
Sample	AD27833-001	68	68.48958	Percent	1.29	12.81	9.18	12/12/21	disham		
Sample	AD27833-002	65	65.24310	Percent	1.29	16.51	11.22	12/12/21	disham		
Sample	AD27834-001	83	82.83530	Percent	1.30	15.69	13.22	12/12/21	disham		
Sample	AD27834-002	85	85.01873	Percent	1.30	14.65	12.65	12/12/21	disham		
Sample	AD27834-003	72	71.95546	Percent	1.28	15.65	11.62	12/12/21	disham		
Sample	AD27834-004	84	83.67580	Percent	1.30	10.06	8.63	12/12/21	disham		
Sample	AD27835-001	88	87.68971	Percent	1.29	13.15	11.69	12/12/21	disham		
Sample	AD27835-002	90	89.60270	Percent	1.29	13.12	11.89	12/12/21	disham		
Sample	AD27835-003	89	88.80171	Percent	1.31	15.33	13.75	12/12/21	disham		
Sample	AD27845-001	85	85.19250	Percent	1.28	11.41	9.91	12/12/21	disham		
Sample	AD27846-001	73	72.82869	Percent	1.29	13.84	10.43	12/12/21	disham		
Sample	AD27846-002	74	73.81672	Percent	1.30	11.23	8.63	12/12/21	disham		
Sample	AD27846-003	79	79.39633	Percent	1.28	16.52	13.38	12/12/21	disham		
Sample	AD27846-004	72	72.30347	Percent	1.30	12.24	9.21	12/12/21	disham		
Sample	AD27846-005	73	72.59450	Percent	1.29	12.93	9.74	12/12/21	disham		
Sample	AD27846-006	74	73.67876	Percent	1.29	10.94	8.40	12/12/21	disham		
Sample	AD27846-007	78	77.97811	Percent	1.28	16.81	13.39	12/12/21	disham		
Sample	AD27850-001	91	91.37717	Percent	1.28	17.40	16.01	12/12/21	disham		
Sample	AD27850-007	92	92.22677	Percent	1.30	18.41	17.08	12/12/21	disham		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 12/17/2021

Report Date: 2/1/2022

Deliverables: MDE-R

Lab ID: AD27961

Lab Project No: 1121702

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1121702

Sample Summary

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project #: 1121702

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD27961-001	SB-016 SS	Soil/Terracore	12/16/2021	12/17/2021
AD27961-002	SB-017 SS	Soil/Terracore	12/16/2021	12/17/2021
AD27961-003	SB-018 SS	Soil/Terracore	12/16/2021	12/17/2021

HC Case Narrative

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project: 1121702

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 98291 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98291 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 96003 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 97648. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batch 97647 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	2/1/22 Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1121702

Project: CSA WMATA 0444100

Lab#: AD27961-001 **Sample ID: SB-016 SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	6.1	15	EPA 6010D
Lead	mg/kg	6.1	9.9	EPA 6010D
Arsenic	mg/kg	0.24	3.5	EPA 6020B
bis(2-Ethylhexyl)phthalate	mg/kg	0.041	0.57	EPA 8270E

Lab#: AD27961-002 **Sample ID: SB-017 SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	6.2	13	EPA 6010D
Lead	mg/kg	6.2	860	EPA 6010D
Arsenic	mg/kg	0.25	8.1	EPA 6020B
Total Petroleum Hydrocarbons	mg/kg	74	120	EPA 8015D
Methylene chloride	mg/kg	0.0023	0.0025	EPA 8260D
Anthracene	mg/kg	0.041	0.053	EPA 8270E
Benzo[a]anthracene	mg/kg	0.041	0.25	EPA 8270E
Benzo[a]pyrene	mg/kg	0.041	0.20	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.041	0.32	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.041	0.13	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.041	0.095	EPA 8270E
bis(2-Ethylhexyl)phthalate	mg/kg	0.041	0.75	EPA 8270E
Chrysene	mg/kg	0.041	0.24	EPA 8270E
Fluoranthene	mg/kg	0.041	0.45	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.041	0.11	EPA 8270E
Phenanthrene	mg/kg	0.041	0.25	EPA 8270E
Pyrene	mg/kg	0.041	0.44	EPA 8270E

Lab#: AD27961-003 **Sample ID: SB-018 SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.4	6.1	EPA 6010D
Lead	mg/kg	5.4	35	EPA 6010D
Arsenic	mg/kg	0.22	1.9	EPA 6020B
Methylene chloride	mg/kg	0.0018	0.0027	EPA 8260D
bis(2-Ethylhexyl)phthalate	mg/kg	0.036	1.4	EPA 8270E
Fluoranthene	mg/kg	0.036	0.039	EPA 8270E
Pyrene	mg/kg	0.036	0.044	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project #: 1121702

Sample ID: SB-016 SS
Lab#: AD27961-001
Matrix: Soil/Terracore

Collection Date: 12/16/2021
Receipt Date: 12/17/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	73	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	74.3	mg/kg	23	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	6.1	15
Lead	1	mg/kg	6.1	9.9

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.24	3.5
Cadmium	1	mg/kg	0.49	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.041	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.041	ND
1,2-Diphenylhydrazine	1	mg/kg	0.041	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.041	ND
2,4,5-Trichlorophenol	1	mg/kg	0.041	ND
2,4,6-Trichlorophenol	1	mg/kg	0.041	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.020	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.041	ND
2,6-Dinitrotoluene	1	mg/kg	0.041	ND
2-Chloronaphthalene	1	mg/kg	0.041	ND
2-Chlorophenol	1	mg/kg	0.041	ND
2-Methylnaphthalene	1	mg/kg	0.041	ND
2-Methylphenol	1	mg/kg	0.012	ND
2-Nitroaniline	1	mg/kg	0.041	ND
2-Nitrophenol	1	mg/kg	0.041	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.041	ND
3-Nitroaniline	1	mg/kg	0.041	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.041	ND
4-Chloro-3-methylphenol	1	mg/kg	0.041	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.041	ND

Sample ID: SB-016 SS	**Collection Date:** 12/16/2021
Lab#: AD27961-001	**Receipt Date:** 12/17/2021
Matrix: Soil/Terracore	

4-Nitroaniline	1	mg/kg	0.041	ND
4-Nitrophenol	1	mg/kg	0.041	ND
Acenaphthene	1	mg/kg	0.041	ND
Acenaphthylene	1	mg/kg	0.041	ND
Acetophenone	1	mg/kg	0.041	ND
Anthracene	1	mg/kg	0.041	ND
Atrazine	1	mg/kg	0.041	ND
Benzaldehyde	1	mg/kg	0.44	ND
Benzidine	1	mg/kg	0.072	ND
Benzo[a]anthracene	1	mg/kg	0.041	ND
Benzo[a]pyrene	1	mg/kg	0.041	ND
Benzo[b]fluoranthene	1	mg/kg	0.041	ND
Benzo[g,h,i]perylene	1	mg/kg	0.041	ND
Benzo[k]fluoranthene	1	mg/kg	0.041	ND
Benzyl alcohol	1	mg/kg	0.041	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.041	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.010	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.041	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.041**	**0.57**
Butylbenzylphthalate	1	mg/kg	0.041	ND
Caprolactam	1	mg/kg	0.041	ND
Carbazole	1	mg/kg	0.041	ND
Chrysene	1	mg/kg	0.041	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.041	ND
Dibenzofuran	1	mg/kg	0.010	ND
Diethylphthalate	1	mg/kg	0.041	ND
Dimethylphthalate	1	mg/kg	0.041	ND
Di-n-butylphthalate	1	mg/kg	0.047	ND
Di-n-octylphthalate	1	mg/kg	0.041	ND
Fluoranthene	1	mg/kg	0.041	ND
Fluorene	1	mg/kg	0.041	ND
Hexachlorobenzene	1	mg/kg	0.041	ND
Hexachlorobutadiene	1	mg/kg	0.041	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.041	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.041	ND
Isophorone	1	mg/kg	0.041	ND
Naphthalene	1	mg/kg	0.012	ND
Nitrobenzene	1	mg/kg	0.041	ND
N-Nitrosodimethylamine	1	mg/kg	0.050	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.14	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	1	mg/kg	0.041	ND
Phenol	1	mg/kg	0.041	ND
Pyrene	1	mg/kg	0.041	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	73	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.833	mg/kg	0.0020	ND
1,1,2,2-Tetrachloroethane	0.833	mg/kg	0.0020	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.833	mg/kg	0.0020	ND
1,1,2-Trichloroethane	0.833	mg/kg	0.0020	ND

Sample ID:	**SB-016 SS**			**Collection Date:**	**12/16/2021**
Lab#:	**AD27961-001**			**Receipt Date:**	**12/17/2021**
Matrix:	**Soil/Terracore**				

1,1-Dichloroethane	0.833	mg/kg	0.0020	ND
1,1-Dichloroethene	0.833	mg/kg	0.0020	ND
1,2,3-Trichlorobenzene	0.833	mg/kg	0.0020	ND
1,2,4-Trichlorobenzene	0.833	mg/kg	0.0020	ND
1,2-Dibromo-3-chloropropane	0.833	mg/kg	0.0020	ND
1,2-Dibromoethane	0.833	mg/kg	0.0010	ND
1,2-Dichlorobenzene	0.833	mg/kg	0.0020	ND
1,2-Dichloroethane	0.833	mg/kg	0.0020	ND
1,2-Dichloropropane	0.833	mg/kg	0.0020	ND
1,3-Dichlorobenzene	0.833	mg/kg	0.0020	ND
1,4-Dichlorobenzene	0.833	mg/kg	0.0020	ND
1,4-Dioxane	0.833	mg/kg	0.10	ND
2-Butanone	0.833	mg/kg	0.0020	ND
2-Hexanone	0.833	mg/kg	0.0020	ND
4-Methyl-2-pentanone	0.833	mg/kg	0.0020	ND
Acetone	0.833	mg/kg	0.010	ND
Acrolein	0.833	mg/kg	0.010	ND
Acrylonitrile	0.833	mg/kg	0.0020	ND
Benzene	0.833	mg/kg	0.0010	ND
Bromochloromethane	0.833	mg/kg	0.0020	ND
Bromodichloromethane	0.833	mg/kg	0.0020	ND
Bromoform	0.833	mg/kg	0.0020	ND
Bromomethane	0.833	mg/kg	0.0020	ND
Carbon disulfide	0.833	mg/kg	0.0035	ND
Carbon tetrachloride	0.833	mg/kg	0.0020	ND
Chlorobenzene	0.833	mg/kg	0.0020	ND
Chloroethane	0.833	mg/kg	0.0020	ND
Chloroform	0.833	mg/kg	0.0020	ND
Chloromethane	0.833	mg/kg	0.0020	ND
cis-1,2-Dichloroethene	0.833	mg/kg	0.0020	ND
cis-1,3-Dichloropropene	0.833	mg/kg	0.0020	ND
Cyclohexane	0.833	mg/kg	0.0020	ND
Dibromochloromethane	0.833	mg/kg	0.0020	ND
Dichlorodifluoromethane	0.833	mg/kg	0.0020	ND
Ethylbenzene	0.833	mg/kg	0.0010	ND
Isopropylbenzene	0.833	mg/kg	0.0010	ND
m&p-Xylenes	0.833	mg/kg	0.0012	ND
Methyl Acetate	0.833	mg/kg	0.0020	ND
Methylcyclohexane	0.833	mg/kg	0.0020	ND
Methylene chloride	0.833	mg/kg	0.0020	ND
Methyl-t-butyl ether	0.833	mg/kg	0.0010	ND
o-Xylene	0.833	mg/kg	0.0010	ND
Styrene	0.833	mg/kg	0.0020	ND
t-Butyl Alcohol	0.833	mg/kg	0.010	ND
Tetrachloroethene	0.833	mg/kg	0.0020	ND
Toluene	0.833	mg/kg	0.0010	ND
trans-1,2-Dichloroethene	0.833	mg/kg	0.0020	ND
trans-1,3-Dichloropropene	0.833	mg/kg	0.0020	ND
Trichloroethene	0.833	mg/kg	0.0020	ND
Trichlorofluoromethane	0.833	mg/kg	0.0020	ND
Vinyl chloride	0.833	mg/kg	0.0020	ND
Xylenes (Total)	0.833	mg/kg	0.0010	ND

Sample ID: SB-017 SS
Lab#: AD27961-002
Matrix: Soil/Terracore

Collection Date: 12/16/2021
Receipt Date: 12/17/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		81

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	74	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	88.7	mg/kg	27	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	6.2	13
Lead	1	mg/kg	6.2	860

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.25	8.1
Cadmium	1	mg/kg	0.49	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.041	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.041	ND
1,2-Diphenylhydrazine	1	mg/kg	0.041	ND
1,4-Dioxane	1	mg/kg	0.021	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.041	ND
2,4,5-Trichlorophenol	1	mg/kg	0.041	ND
2,4,6-Trichlorophenol	1	mg/kg	0.041	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.020	ND
2,4-Dinitrophenol	1	mg/kg	0.21	ND
2,4-Dinitrotoluene	1	mg/kg	0.041	ND
2,6-Dinitrotoluene	1	mg/kg	0.041	ND
2-Chloronaphthalene	1	mg/kg	0.041	ND
2-Chlorophenol	1	mg/kg	0.041	ND
2-Methylnaphthalene	1	mg/kg	0.041	ND
2-Methylphenol	1	mg/kg	0.012	ND
2-Nitroaniline	1	mg/kg	0.041	ND
2-Nitrophenol	1	mg/kg	0.041	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.041	ND
3-Nitroaniline	1	mg/kg	0.041	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.21	ND
4-Bromophenyl-phenylether	1	mg/kg	0.041	ND
4-Chloro-3-methylphenol	1	mg/kg	0.041	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.041	ND
4-Nitroaniline	1	mg/kg	0.041	ND
4-Nitrophenol	1	mg/kg	0.041	ND
Acenaphthene	1	mg/kg	0.041	ND
Acenaphthylene	1	mg/kg	0.041	ND
Acetophenone	1	mg/kg	0.041	ND
Anthracene	1	mg/kg	0.041	0.053
Atrazine	1	mg/kg	0.041	ND

Sample ID:	**SB-017 SS**	**Collection Date:**	**12/16/2021**
Lab#:	**AD27961-002**	**Receipt Date:**	**12/17/2021**
Matrix:	**Soil/Terracore**		

Benzaldehyde	1	mg/kg	0.45	ND
Benzidine	1	mg/kg	0.072	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.041**	**0.25**
Benzo[a]pyrene	**1**	**mg/kg**	**0.041**	**0.20**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.041**	**0.32**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.041**	**0.13**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.041**	**0.095**
Benzyl alcohol	1	mg/kg	0.041	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.041	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.010	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.041	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.041**	**0.75**
Butylbenzylphthalate	1	mg/kg	0.041	ND
Caprolactam	1	mg/kg	0.041	ND
Carbazole	1	mg/kg	0.041	ND
Chrysene	**1**	**mg/kg**	**0.041**	**0.24**
Dibenzo[a,h]anthracene	1	mg/kg	0.041	ND
Dibenzofuran	1	mg/kg	0.010	ND
Diethylphthalate	1	mg/kg	0.041	ND
Dimethylphthalate	1	mg/kg	0.041	ND
Di-n-butylphthalate	1	mg/kg	0.047	ND
Di-n-octylphthalate	1	mg/kg	0.041	ND
Fluoranthene	**1**	**mg/kg**	**0.041**	**0.45**
Fluorene	1	mg/kg	0.041	ND
Hexachlorobenzene	1	mg/kg	0.041	ND
Hexachlorobutadiene	1	mg/kg	0.041	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.041	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.041**	**0.11**
Isophorone	1	mg/kg	0.041	ND
Naphthalene	1	mg/kg	0.012	ND
Nitrobenzene	1	mg/kg	0.041	ND
N-Nitrosodimethylamine	1	mg/kg	0.051	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.14	ND
Pentachlorophenol	1	mg/kg	0.21	ND
Phenanthrene	**1**	**mg/kg**	**0.041**	**0.25**
Phenol	1	mg/kg	0.041	ND
Pyrene	**1**	**mg/kg**	**0.041**	**0.44**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**74**	**120**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.921	mg/kg	0.0023	ND
1,1,2,2-Tetrachloroethane	0.921	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.921	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.921	mg/kg	0.0023	ND
1,1-Dichloroethane	0.921	mg/kg	0.0023	ND
1,1-Dichloroethene	0.921	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.921	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.921	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.921	mg/kg	0.0023	ND
1,2-Dibromoethane	0.921	mg/kg	0.0011	ND
1,2-Dichlorobenzene	0.921	mg/kg	0.0023	ND

Sample ID: SB-017 SS				Collection Date: 12/16/2021	
Lab#: AD27961-002				Receipt Date: 12/17/2021	
Matrix: Soil/Terracore					
1,2-Dichloroethane	0.921	mg/kg	0.0023	ND	
1,2-Dichloropropane	0.921	mg/kg	0.0023	ND	
1,3-Dichlorobenzene	0.921	mg/kg	0.0023	ND	
1,4-Dichlorobenzene	0.921	mg/kg	0.0023	ND	
1,4-Dioxane	0.921	mg/kg	0.11	ND	
2-Butanone	0.921	mg/kg	0.0023	ND	
2-Hexanone	0.921	mg/kg	0.0023	ND	
4-Methyl-2-pentanone	0.921	mg/kg	0.0023	ND	
Acetone	0.921	mg/kg	0.011	ND	
Acrolein	0.921	mg/kg	0.011	ND	
Acrylonitrile	0.921	mg/kg	0.0023	ND	
Benzene	0.921	mg/kg	0.0011	ND	
Bromochloromethane	0.921	mg/kg	0.0023	ND	
Bromodichloromethane	0.921	mg/kg	0.0023	ND	
Bromoform	0.921	mg/kg	0.0023	ND	
Bromomethane	0.921	mg/kg	0.0023	ND	
Carbon disulfide	0.921	mg/kg	0.0039	ND	
Carbon tetrachloride	0.921	mg/kg	0.0023	ND	
Chlorobenzene	0.921	mg/kg	0.0023	ND	
Chloroethane	0.921	mg/kg	0.0023	ND	
Chloroform	0.921	mg/kg	0.0023	ND	
Chloromethane	0.921	mg/kg	0.0023	ND	
cis-1,2-Dichloroethene	0.921	mg/kg	0.0023	ND	
cis-1,3-Dichloropropene	0.921	mg/kg	0.0023	ND	
Cyclohexane	0.921	mg/kg	0.0023	ND	
Dibromochloromethane	0.921	mg/kg	0.0023	ND	
Dichlorodifluoromethane	0.921	mg/kg	0.0023	ND	
Ethylbenzene	0.921	mg/kg	0.0011	ND	
Isopropylbenzene	0.921	mg/kg	0.0011	ND	
m&p-Xylenes	0.921	mg/kg	0.0014	ND	
Methyl Acetate	0.921	mg/kg	0.0023	ND	
Methylcyclohexane	0.921	mg/kg	0.0023	ND	
Methylene chloride	**0.921**	**mg/kg**	**0.0023**	**0.0025**	
Methyl-t-butyl ether	0.921	mg/kg	0.0011	ND	
o-Xylene	0.921	mg/kg	0.0011	ND	
Styrene	0.921	mg/kg	0.0023	ND	
t-Butyl Alcohol	0.921	mg/kg	0.011	ND	
Tetrachloroethene	0.921	mg/kg	0.0023	ND	
Toluene	0.921	mg/kg	0.0011	ND	
trans-1,2-Dichloroethene	0.921	mg/kg	0.0023	ND	
trans-1,3-Dichloropropene	0.921	mg/kg	0.0023	ND	
Trichloroethene	0.921	mg/kg	0.0023	ND	
Trichlorofluoromethane	0.921	mg/kg	0.0023	ND	
Vinyl chloride	0.921	mg/kg	0.0023	ND	
Xylenes (Total)	0.921	mg/kg	0.0011	ND	

Sample ID: SB-018 SS
Lab#: AD27961-003
Matrix: Soil/Terracore

Collection Date: 12/16/2021
Receipt Date: 12/17/2021

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	65	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	93.8	mg/kg	25	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.4	6.1
Lead	1	mg/kg	5.4	35

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.22	1.9
Cadmium	1	mg/kg	0.43	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.036	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.036	ND
1,2-Diphenylhydrazine	1	mg/kg	0.036	ND
1,4-Dioxane	1	mg/kg	0.018	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.036	ND
2,4,5-Trichlorophenol	1	mg/kg	0.036	ND
2,4,6-Trichlorophenol	1	mg/kg	0.036	ND
2,4-Dichlorophenol	1	mg/kg	0.013	ND
2,4-Dimethylphenol	1	mg/kg	0.017	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.036	ND
2,6-Dinitrotoluene	1	mg/kg	0.036	ND
2-Chloronaphthalene	1	mg/kg	0.036	ND
2-Chlorophenol	1	mg/kg	0.036	ND
2-Methylnaphthalene	1	mg/kg	0.036	ND
2-Methylphenol	1	mg/kg	0.010	ND
2-Nitroaniline	1	mg/kg	0.036	ND
2-Nitrophenol	1	mg/kg	0.036	ND
3&4-Methylphenol	1	mg/kg	0.010	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.036	ND
3-Nitroaniline	1	mg/kg	0.036	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.036	ND
4-Chloro-3-methylphenol	1	mg/kg	0.036	ND
4-Chloroaniline	1	mg/kg	0.016	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.036	ND
4-Nitroaniline	1	mg/kg	0.036	ND
4-Nitrophenol	1	mg/kg	0.036	ND
Acenaphthene	1	mg/kg	0.036	ND
Acenaphthylene	1	mg/kg	0.036	ND
Acetophenone	1	mg/kg	0.036	ND
Anthracene	1	mg/kg	0.036	ND
Atrazine	1	mg/kg	0.036	ND

Sample ID:	**SB-018 SS**
Lab#:	**AD27961-003**
Matrix:	**Soil/Terracore**
Collection Date:	**12/16/2021**
Receipt Date:	**12/17/2021**

Benzaldehyde	1	mg/kg	0.39	ND
Benzidine	1	mg/kg	0.063	ND
Benzo[a]anthracene	1	mg/kg	0.036	ND
Benzo[a]pyrene	1	mg/kg	0.036	ND
Benzo[b]fluoranthene	1	mg/kg	0.036	ND
Benzo[g,h,i]perylene	1	mg/kg	0.036	ND
Benzo[k]fluoranthene	1	mg/kg	0.036	ND
Benzyl alcohol	1	mg/kg	0.036	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.036	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0090	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.036	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.036**	**1.4**
Butylbenzylphthalate	1	mg/kg	0.036	ND
Caprolactam	1	mg/kg	0.036	ND
Carbazole	1	mg/kg	0.036	ND
Chrysene	1	mg/kg	0.036	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.036	ND
Dibenzofuran	1	mg/kg	0.0091	ND
Diethylphthalate	1	mg/kg	0.036	ND
Dimethylphthalate	1	mg/kg	0.036	ND
Di-n-butylphthalate	1	mg/kg	0.041	ND
Di-n-octylphthalate	1	mg/kg	0.036	ND
Fluoranthene	**1**	**mg/kg**	**0.036**	**0.039**
Fluorene	1	mg/kg	0.036	ND
Hexachlorobenzene	1	mg/kg	0.036	ND
Hexachlorobutadiene	1	mg/kg	0.036	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.036	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.036	ND
Isophorone	1	mg/kg	0.036	ND
Naphthalene	1	mg/kg	0.010	ND
Nitrobenzene	1	mg/kg	0.036	ND
N-Nitrosodimethylamine	1	mg/kg	0.044	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.013	ND
N-Nitrosodiphenylamine	1	mg/kg	0.12	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	1	mg/kg	0.036	ND
Phenol	1	mg/kg	0.036	ND
Pyrene	**1**	**mg/kg**	**0.036**	**0.044**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	65	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.82	mg/kg	0.0018	ND
1,1,2,2-Tetrachloroethane	0.82	mg/kg	0.0018	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.82	mg/kg	0.0018	ND
1,1,2-Trichloroethane	0.82	mg/kg	0.0018	ND
1,1-Dichloroethane	0.82	mg/kg	0.0018	ND
1,1-Dichloroethene	0.82	mg/kg	0.0018	ND
1,2,3-Trichlorobenzene	0.82	mg/kg	0.0018	ND
1,2,4-Trichlorobenzene	0.82	mg/kg	0.0018	ND
1,2-Dibromo-3-chloropropane	0.82	mg/kg	0.0018	ND
1,2-Dibromoethane	0.82	mg/kg	0.00088	ND
1,2-Dichlorobenzene	0.82	mg/kg	0.0018	ND

Sample ID:	**SB-018 SS**
Lab#:	**AD27961-003**
Matrix:	**Soil/Terracore**
Collection Date:	**12/16/2021**
Receipt Date:	**12/17/2021**

1,2-Dichloroethane	0.82	mg/kg	0.0018	ND
1,2-Dichloropropane	0.82	mg/kg	0.0018	ND
1,3-Dichlorobenzene	0.82	mg/kg	0.0018	ND
1,4-Dichlorobenzene	0.82	mg/kg	0.0018	ND
1,4-Dioxane	0.82	mg/kg	0.088	ND
2-Butanone	0.82	mg/kg	0.0018	ND
2-Hexanone	0.82	mg/kg	0.0018	ND
4-Methyl-2-pentanone	0.82	mg/kg	0.0018	ND
Acetone	0.82	mg/kg	0.0088	ND
Acrolein	0.82	mg/kg	0.0088	ND
Acrylonitrile	0.82	mg/kg	0.0018	ND
Benzene	0.82	mg/kg	0.00088	ND
Bromochloromethane	0.82	mg/kg	0.0018	ND
Bromodichloromethane	0.82	mg/kg	0.0018	ND
Bromoform	0.82	mg/kg	0.0018	ND
Bromomethane	0.82	mg/kg	0.0018	ND
Carbon disulfide	0.82	mg/kg	0.0030	ND
Carbon tetrachloride	0.82	mg/kg	0.0018	ND
Chlorobenzene	0.82	mg/kg	0.0018	ND
Chloroethane	0.82	mg/kg	0.0018	ND
Chloroform	0.82	mg/kg	0.0018	ND
Chloromethane	0.82	mg/kg	0.0018	ND
cis-1,2-Dichloroethene	0.82	mg/kg	0.0018	ND
cis-1,3-Dichloropropene	0.82	mg/kg	0.0018	ND
Cyclohexane	0.82	mg/kg	0.0018	ND
Dibromochloromethane	0.82	mg/kg	0.0018	ND
Dichlorodifluoromethane	0.82	mg/kg	0.0018	ND
Ethylbenzene	0.82	mg/kg	0.00088	ND
Isopropylbenzene	0.82	mg/kg	0.00088	ND
m&p-Xylenes	0.82	mg/kg	0.0011	ND
Methyl Acetate	0.82	mg/kg	0.0018	ND
Methylcyclohexane	0.82	mg/kg	0.0018	ND
Methylene chloride	**0.82**	**mg/kg**	**0.0018**	**0.0027**
Methyl-t-butyl ether	0.82	mg/kg	0.00088	ND
o-Xylene	0.82	mg/kg	0.00088	ND
Styrene	0.82	mg/kg	0.0018	ND
t-Butyl Alcohol	0.82	mg/kg	0.0088	ND
Tetrachloroethene	0.82	mg/kg	0.0018	ND
Toluene	0.82	mg/kg	0.00088	ND
trans-1,2-Dichloroethene	0.82	mg/kg	0.0018	ND
trans-1,3-Dichloropropene	0.82	mg/kg	0.0018	ND
Trichloroethene	0.82	mg/kg	0.0018	ND
Trichlorofluoromethane	0.82	mg/kg	0.0018	ND
Vinyl chloride	0.82	mg/kg	0.0018	ND
Xylenes (Total)	0.82	mg/kg	0.00088	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
HC Project #: 1121702
Project: CSA WMATA 0444100

Lab#: AD27961-001 **Sample ID: SB-016 SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/19/21 00:00	janee
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 08:37	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/22/21 13:39	JM
RCRA Metals 6010D	3005&10/3050	12/20/21 09:30	asilva	EPA 6010D	12/20/21 13:22	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/20/21 09:30	asilva	EPA 6020B	12/20/21 14:22	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/27/21 07:41	AT/JJ	EPA 8270E	12/27/21 18:12	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 08:37	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/21/21 19:49	SG

Lab#: AD27961-002 **Sample ID: SB-017 SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/19/21 00:00	janee
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 09:07	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/22/21 13:55	JM
RCRA Metals 6010D	3005&10/3050	12/20/21 09:30	asilva	EPA 6010D	12/20/21 13:26	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/20/21 09:30	asilva	EPA 6020B	12/20/21 14:26	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/27/21 07:41	AT/JJ	EPA 8270E	12/27/21 18:35	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 09:07	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/21/21 19:29	SG

Lab#: AD27961-003 **Sample ID: SB-018 SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/19/21 00:00	janee
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 09:37	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/22/21 14:12	JM
RCRA Metals 6010D	3005&10/3050	12/20/21 09:30	asilva	EPA 6010D	12/20/21 13:30	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/20/21 09:30	asilva	EPA 6020B	12/20/21 14:44	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/27/21 07:41	AT/JJ	EPA 8270E	12/27/21 17:03	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 09:37	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/21/21 19:08	SG

Chain of Custody

1121702 0016

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1121702

Page 1 of ____

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand)	NY ASP CatA	[ ] Region 2 or 5
Other: ____		Other: ____

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek - PSI
Address: 2930 Eskridge Rd. Fairfax, VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andres.acosta@intertek.com
1d) Send Report to: + rinzova.renthlei@intertek

Project Information

2a) Project: CSA WMATA
2b) Project Mgr:
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # A027961

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH - DRO/ORO/GRO	4 RCRA Metals - As, Cd, Cr, Pb	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
		S																	
-001	SB-016 SS	S	12/16/21	0150		X	X	X	X	X	1	1						2	
-002	SB-017 SS	↓	↓	0945		X	X	X	X	X	1	1						2	
-003	SB-018 SS	↓	↓	~~0930~~ 1040		X	X	X	X	X	1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX	12/16/21	
FEDEX	[signature]	12/17/21	8:25

11) Sampler (print name): RINZOVA RENTHLEI Date: 12/16/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.4

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD27961 Entered By: maxwell
Date Entered 12/17/2021 8:31:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD27961-001	12/17/21 08:25	MAXW	0	M	Received
AD27961-001	12/17/21 08:31	MAXW	0	M	Login
AD27961-001	12/17/21 08:35	R31	1	A	NONE
AD27961-001	12/20/21 07:40	SG	1	M	VOA
AD27961-001	12/20/21 07:47	R31	1	A	NONE
AD27961-001	12/22/21 16:44	JM	1	A	GRO
AD27961-001	12/22/21 16:45	R31	1	A	NONE
AD27961-001	12/17/21 08:35	F18	2	A	NONE
AD27961-001	12/21/21 14:37	SG	2	A	VOA
AD27961-001	12/17/21 08:35	F18	3	A	NONE
AD27961-001	12/17/21 16:52	R12	4	A	NONE
AD27961-001	12/17/21 22:15	PA	4	A	mx
AD27961-001	12/17/21 22:15	R12	4	A	NONE
AD27961-001	12/19/21 18:01	JW	4	A	SOLIDS
AD27961-001	12/19/21 18:04	R12	4	A	NONE
AD27961-001	12/20/21 09:21	ANS	4	A	TDSI/Hg
AD27961-001	12/20/21 10:17	R12	4	A	NONE
AD27961-001	12/27/21 08:40	JJ/AT	4	A	BNA
AD27961-001	12/27/21 12:11	R12	4	A	NONE
AD27961-001	12/28/21 19:42	MSL	4	A	tph
AD27961-002	12/17/21 08:25	MAXW	0	M	Received
AD27961-002	12/17/21 08:31	MAXW	0	M	Login
AD27961-002	12/17/21 08:35	R31	1	A	NONE
AD27961-002	12/20/21 07:40	SG	1	M	VOA
AD27961-002	12/20/21 07:47	R31	1	A	NONE
AD27961-002	12/22/21 16:44	JM	1	A	GRO
AD27961-002	12/22/21 16:45	R31	1	A	NONE
AD27961-002	12/17/21 08:35	F18	2	A	NONE
AD27961-002	12/21/21 14:37	SG	2	A	VOA
AD27961-002	12/17/21 08:35	F18	3	A	NONE
AD27961-002	12/17/21 16:52	R12	4	A	NONE
AD27961-002	12/17/21 22:15	PA	4	A	mx
AD27961-002	12/17/21 22:15	R12	4	A	NONE
AD27961-002	12/19/21 18:01	JW	4	A	SOLIDS
AD27961-002	12/19/21 18:04	R12	4	A	NONE
AD27961-002	12/20/21 09:21	ANS	4	A	TDSI/Hg
AD27961-002	12/20/21 10:17	R12	4	A	NONE
AD27961-002	12/27/21 08:40	JJ/AT	4	A	BNA
AD27961-002	12/27/21 12:11	R12	4	A	NONE
AD27961-002	12/28/21 19:42	MSL	4	A	tph
AD27961-003	12/17/21 08:25	MAXW	0	M	Received
AD27961-003	12/17/21 08:31	MAXW	0	M	Login
AD27961-003	12/17/21 08:35	R31	1	A	NONE
AD27961-003	12/20/21 07:40	SG	1	M	VOA
AD27961-003	12/20/21 07:47	R31	1	A	NONE
AD27961-003	12/22/21 16:44	JM	1	A	GRO
AD27961-003	12/22/21 16:45	R31	1	A	NONE
AD27961-003	12/17/21 08:35	F18	2	A	NONE
AD27961-003	12/21/21 14:37	SG	2	A	VOA
AD27961-003	12/17/21 08:35	F18	3	A	NONE
AD27961-003	12/17/21 16:52	R12	4	A	NONE
AD27961-003	12/17/21 22:15	PA	4	A	mx
AD27961-003	12/17/21 22:15	R12	4	A	NONE
AD27961-003	12/19/21 18:01	JW	4	A	SOLIDS
AD27961-003	12/19/21 18:04	R12	4	A	NONE
AD27961-003	12/20/21 09:21	ANS	4	A	TDSI/Hg
AD27961-003	12/20/21 10:17	R12	4	A	NONE
AD27961-003	12/27/21 08:40	JJ/AT	4	A	BNA
AD27961-003	12/27/21 12:11	R12	4	A	NONE
AD27961-003	12/28/21 19:42	MSL	4	A	tph

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27961-001
Client Id: SB-016 SS
Data File: 8M553460.D
Analysis Date: 12/21/21 19:49
Date Rec/Extracted: 12/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6g
Final Vol: NA
Dilution: 0.833
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0010	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0035	U	1330-20-7	Xylenes (Total)	0.0010	U

Worksheet #: 623555

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

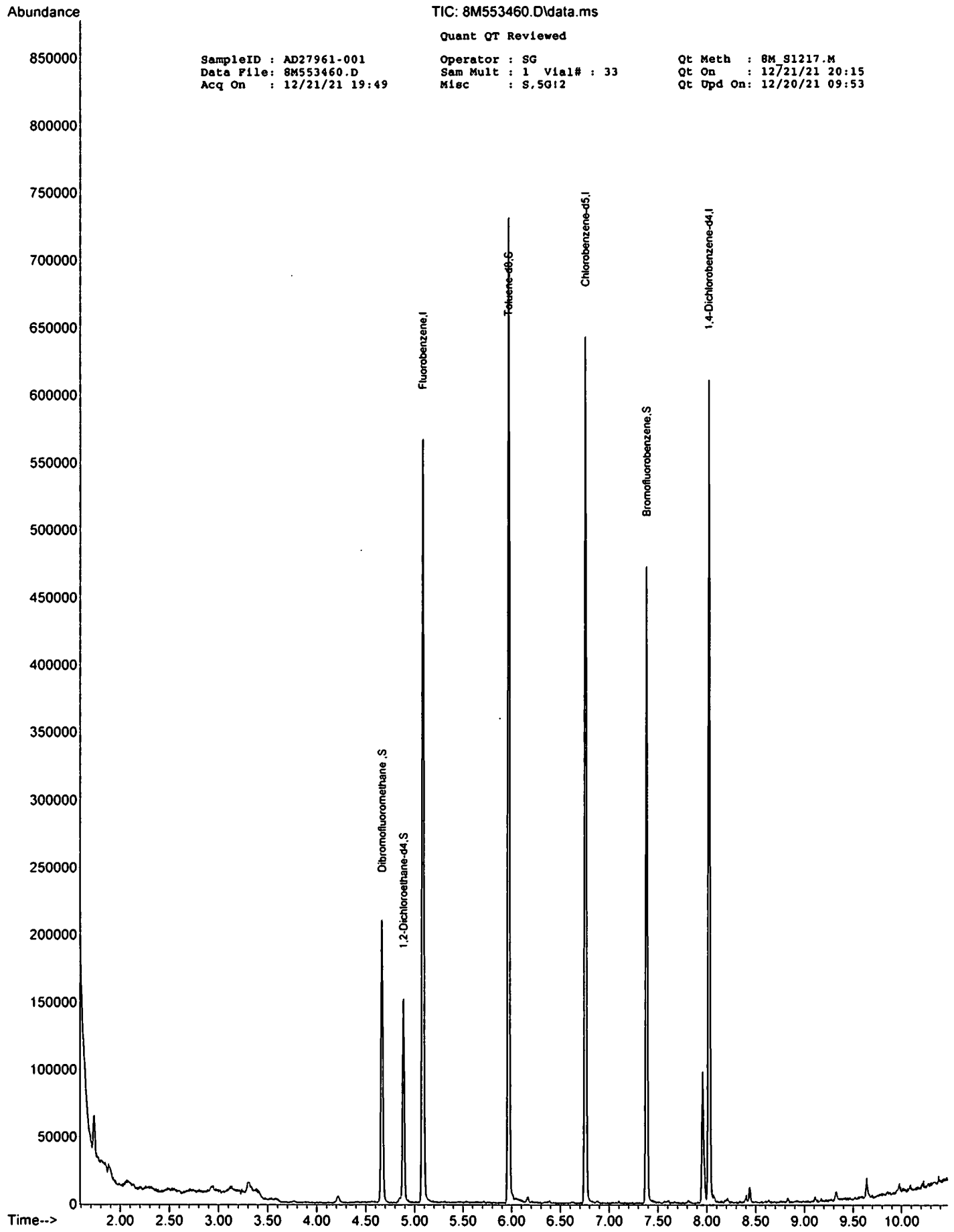
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD27961-001 Operator : SG Qt Meth : 8M_S1217.M
Data File: 8M553460.D Sam Mult : 1 Vial# : 33 Qt On : 12/21/21 20:15
Acq On : 12/21/21 19:49 Misc : S,5G!2 Qt Upd On: 12/20/21 09:53

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	347412	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	265493	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	124316	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.667	111	90277	30.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.90%			
39) 1,2-Dichloroethane-d4	4.886	67	37167	31.90	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.33%			
66) Toluene-d8	5.966	98	337069	29.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.13%			
76) Bromofluorobenzene	7.384	174	94612	31.44	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553460.D\data.ms
Quant QT Reviewed
SampleID : AD27961-001
Data File: 8M553460.D
Acq On : 12/21/21 19:49
Operator : SG
Sam Mult : 1 Vial# : 33
Misc : S,SG!2
Qt Meth : 8M_S1217.M
Qt On : 12/21/21 20:15
Qt Upd On: 12/20/21 09:53
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27961-002
Client Id: SB-017 SS
Data File: 8M553459.D
Analysis Date: 12/21/21 19:29
Date Rec/Extracted: 12/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.43g
Final Vol: NA
Dilution: 0.921
Solids: 81

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.0011	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0023	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0023	U	79601-23-1	m&p-Xylenes	0.0014	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	108-87-2	Methylcyclohexane	0.0023	U
123-91-1	1,4-Dioxane	0.11	U	**75-09-2**	**Methylene Chloride**	**0.0023**	**0.0025**
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.011	U	75-65-0	t-Butyl Alcohol	0.011	U
107-02-8	Acrolein	0.011	U	127-18-4	Tetrachloroethene	0.0023	U
107-13-1	Acrylonitrile	0.0023	U	108-88-3	Toluene	0.0011	U
71-43-2	Benzene	0.0011	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
74-97-5	Bromochloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	79-01-6	Trichloroethene	0.0023	U
75-25-2	Bromoform	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
75-15-0	Carbon Disulfide	0.0039	U	1330-20-7	Xylenes (Total)	0.0011	U

Worksheet #: 623555

Total Target Concentration 0.0025

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

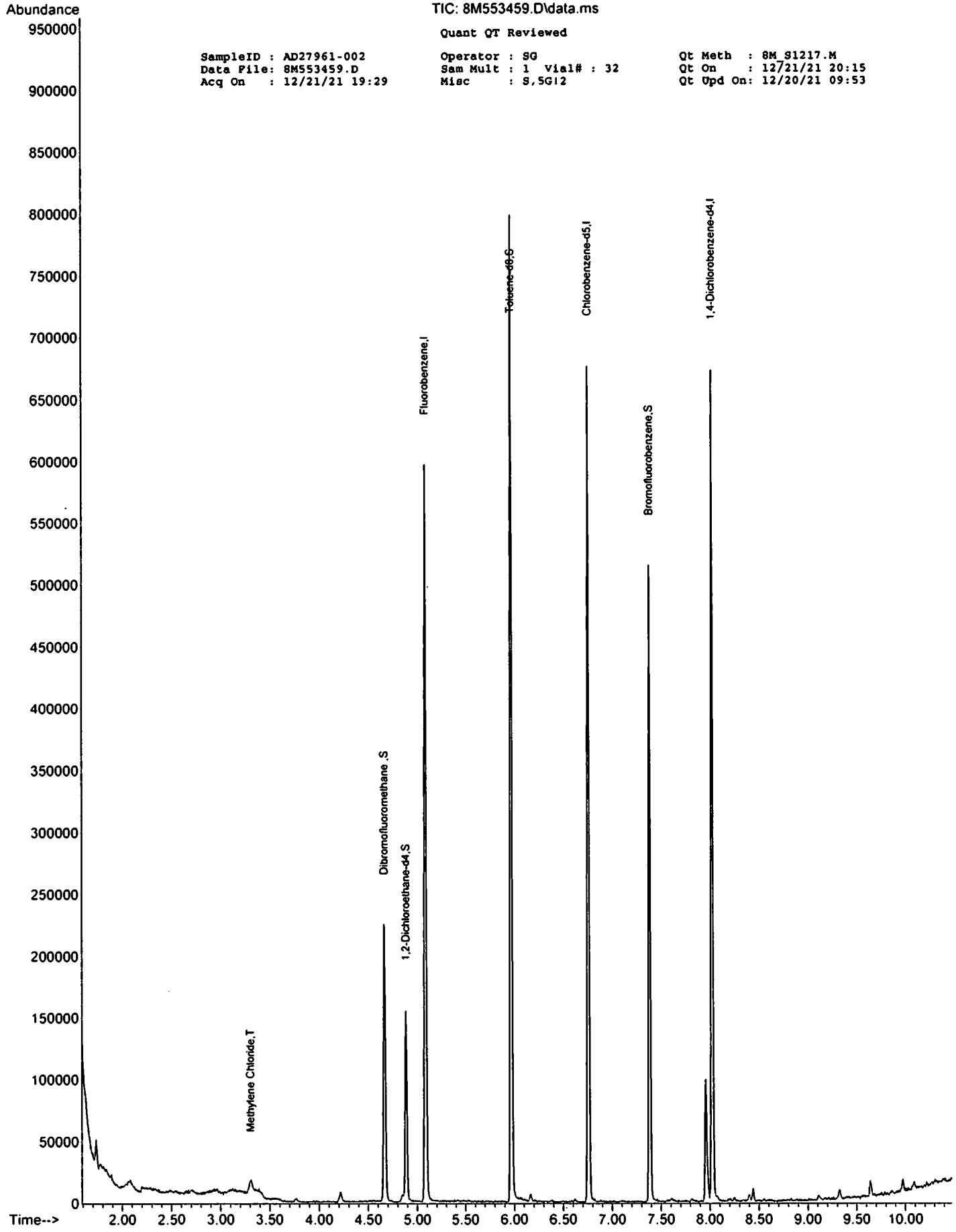
Quantitation Report (QT Reviewed)

SampleID : AD27961-002 Operator : SG Qt Meth : 8M_S1217.M
Data File: 8M553459.D Sam Mult : 1 Vial# : 32 Qt On : 12/21/21 20:15
Acq On : 12/21/21 19:29 Misc : S,5G!2 Qt Upd On: 12/20/21 09:53

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	365704	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	280918	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	135300	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	94408	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.23%			
39) 1,2-Dichloroethane-d4	4.886	67	37840	30.85	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.83%			
66) Toluene-d8	5.970	98	362009	30.19	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.63%			
76) Bromofluorobenzene	7.384	174	99508	30.38	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.27%			
Target Compounds						Qvalue
15) Methylene Chloride	3.304	84	5317	2.1951	ug/l	62

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553459.D\data.ms
Quant QT Reviewed
SampleID : AD27961-002
Data File: 8M553459.D
Acq On : 12/21/21 19:29
Operator : SG
Sam Mult : 1 Vial# : 32
Misc : S,5G12
Qt Meth : 8M_S1217.M
Qt On : 12/21/21 20:15
Qt Upd On: 12/20/21 09:53
Methylene Chloride,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD27961-003
Client Id: SB-018 SS
Data File: 8M553458.D
Analysis Date: 12/21/21 19:08
Date Rec/Extracted: 12/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.1g
Final Vol: NA
Dilution: 0.820
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00088	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00088	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00088	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.088	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0027**
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00088	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00088	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0088	U	75-65-0	t-Butyl Alcohol	0.0088	U
107-02-8	Acrolein	0.0088	U	127-18-4	Tetrachloroethene	0.0018	U
107-13-1	Acrylonitrile	0.0018	U	108-88-3	Toluene	0.00088	U
71-43-2	Benzene	0.00088	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
74-97-5	Bromochloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	79-01-6	Trichloroethene	0.0018	U
75-25-2	Bromoform	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-01-4	Vinyl Chloride	0.0018	U
75-15-0	Carbon Disulfide	0.0030	U	1330-20-7	Xylenes (Total)	0.00088	U

Worksheet #: 623555

Total Target Concentration 0.0027

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

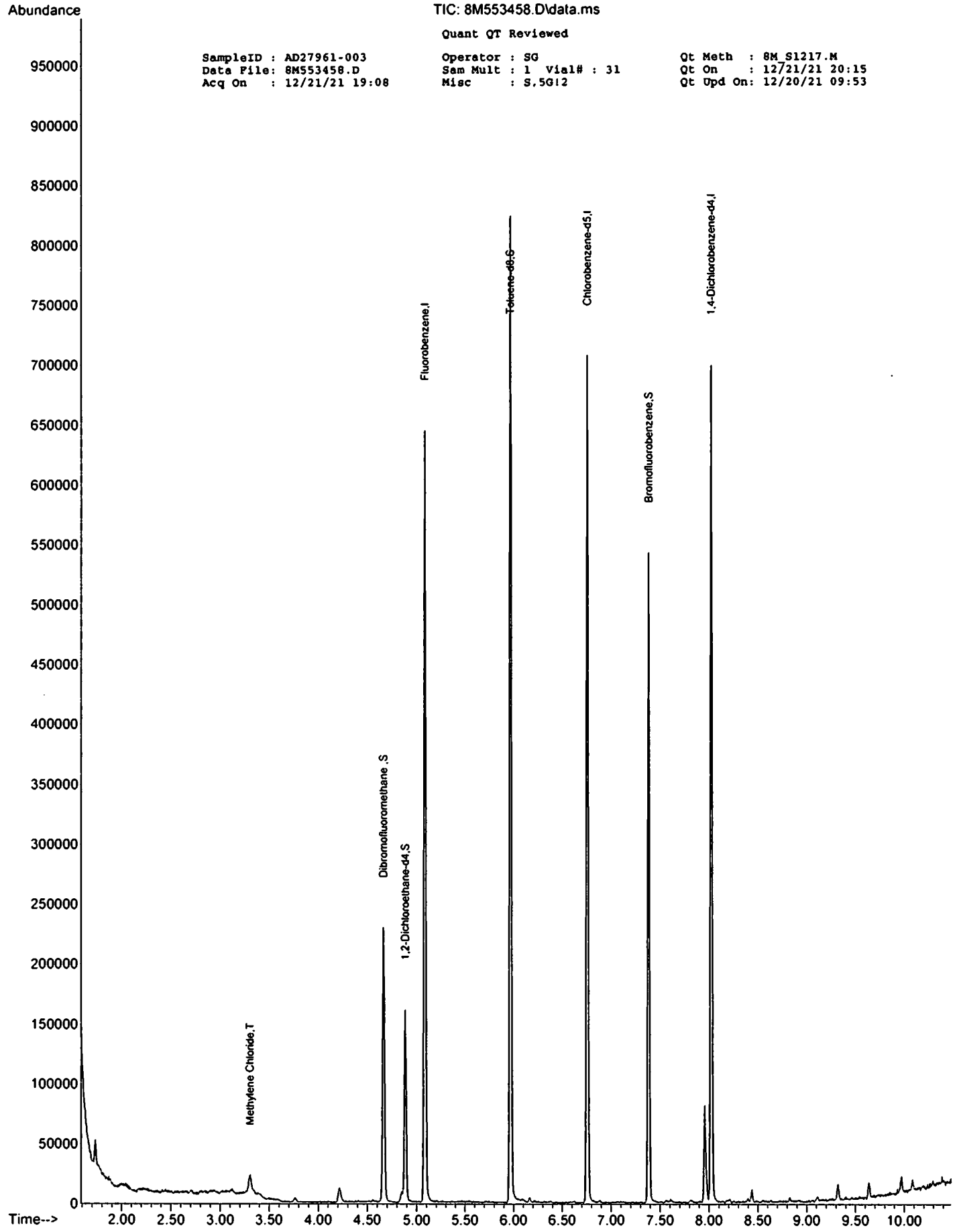
Quantitation Report (QT Reviewed)

SampleID : AD27961-003 Operator : SG Qt Meth : 8M_S1217.M
Data File: 8M553458.D Sam Mult : 1 Vial# : 31 Qt On : 12/21/21 20:15
Acq On : 12/21/21 19:08 Misc : S,5G!2 Qt Upd On: 12/20/21 09:53

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	388673	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	292326	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	143299	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	97983	29.95	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.83%			
39) 1,2-Dichloroethane-d4	4.886	67	39937	30.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.13%			
66) Toluene-d8	5.966	98	379834	30.44	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.47%			
76) Bromofluorobenzene	7.384	174	107783	31.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.57%			
Target Compounds						Qvalue
15) Methylene Chloride	3.304	84	7799	3.0295	ug/l	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553458.D\data.ms
Quant QT Reviewed
SampleID : AD27961-003
Data File: 8M553458.D
Acq On : 12/21/21 19:08
Operator : SG
Sam Mult : 1 Vial# : 31
Misc : S,5G!2
Qt Meth : 8M_S1217.M
Qt On : 12/21/21 20:15
Qt Upd On: 12/20/21 09:53
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M553439.D
Analysis Date: 12/21/21 12:44
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0010	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 623555

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

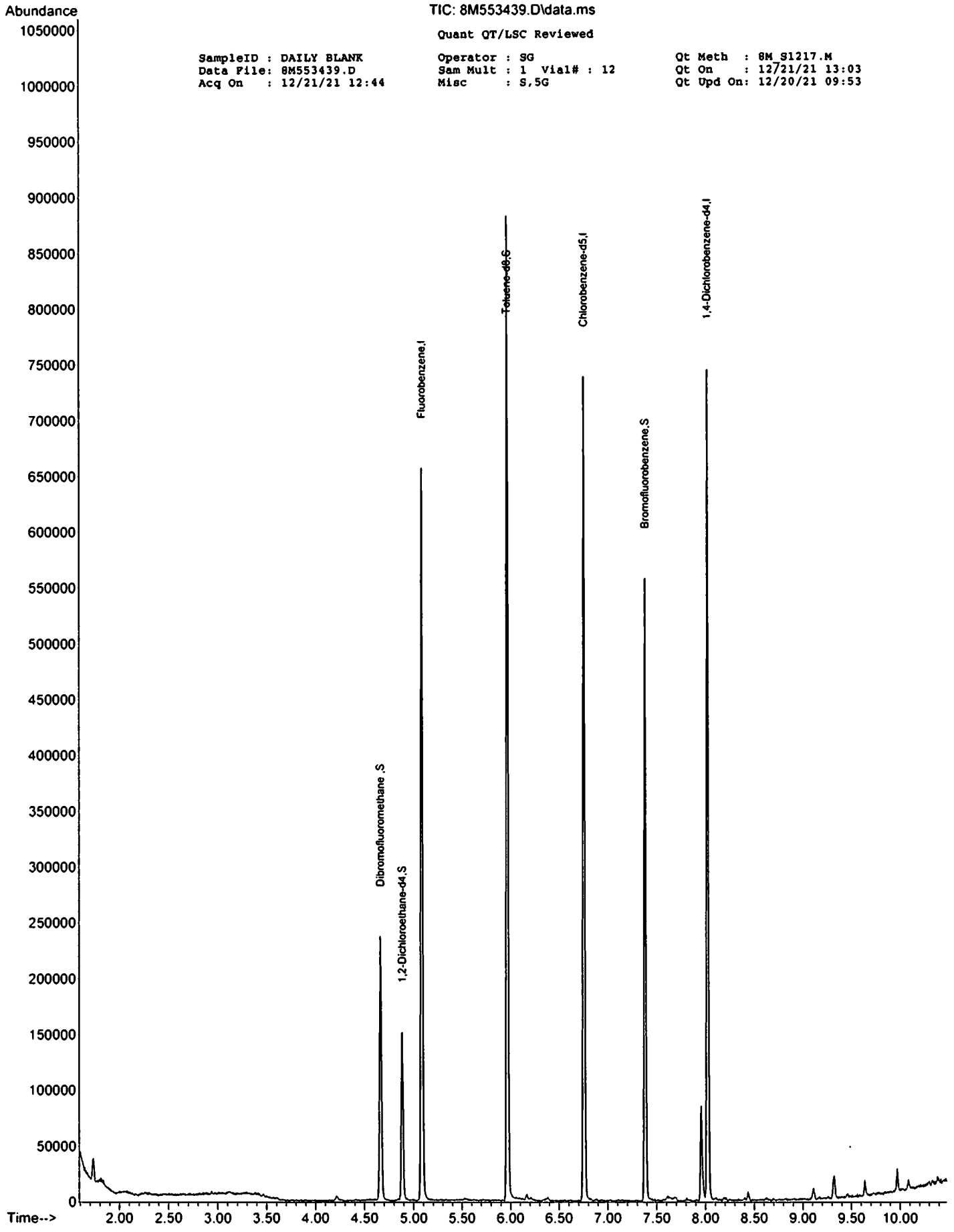
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : DAILY BLANK Operator : SG Qt Meth : 8M_S1217.M
Data File: 8MSS3439.D Sam Mult : 1 Vial# : 12 Qt On : 12/21/21 13:03
Acq On : 12/21/21 12:44 Misc : S,5G Qt Upd On: 12/20/21 09:53

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	406792	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	308485	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	149573	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	97776	28.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.20%			
39) 1,2-Dichloroethane-d4	4.886	67	37709	27.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.13%			
66) Toluene-d8	5.966	98	397720	30.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.67%			
76) Bromofluorobenzene	7.384	174	111275	30.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.43%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553439.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 8M553439.D
Acq On : 12/21/21 12:44
Operator : SG
Sam Mult : 1 Vial# : 12
Misc : S,5G
Qt Meth : 8M_S1217.M
Qt On : 12/21/21 13:03
Qt Upd On: 12/20/21 09:53
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8M553439.D	DAILY BLANK	S	12/21/21 12:44	1		95	92	101	102		
8M553460.D	AD27961-001	S	12/21/21 19:49	1		103	106	99	105		
8M553459.D	AD27961-002	S	12/21/21 19:29	1		102	103	101	101		
8M553458.D	AD27961-003	S	12/21/21 19:08	1		100	102	101	104		
8M553445.D	AD27911-002(MS)	S	12/21/21 14:46	1		104	104	112	123		
8M553446.D	MBS98291	S	12/21/21 15:06	1		100	103	99	103		
8M553448.D	AD27911-002(MSD)	S	12/21/21 15:46	1		106	102	117	127		
8M553449.D	AD27911-002	S	12/21/21 16:06	1		102	103	111	121		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3

Recovery Data Laboratory Limits

QC Batch: MBS98291

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M553446.D	MBS98291	12/21/2021 3:06:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	68.9502	0	50	138*	20	130
Dichlorodifluoromethane	1	55.7916	0	50	112	20	130
Chloromethane	1	50.5142	0	50	101	20	130
Bromomethane	1	47.0275	0	50	94	20	130
Vinyl Chloride	1	55.0645	0	50	110	20	130
Chloroethane	1	44.6284	0	50	89	20	130
Trichlorofluoromethane	1	47.8679	0	50	96	20	130
Ethyl ether	1	49.5899	0	50	99	50	130
Furan	1	43.0093	0	50	86	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	54.5208	0	50	109	50	130
Methylene Chloride	1	46.9851	0	50	94	50	130
Acrolein	1	265.0486	0	200	133*	20	130
Acrylonitrile	1	56.17	0	50	112	20	130
Iodomethane	1	94.6132	0	50	189*	50	130
Acetone	1	200.6839	0	200	100	20	130
Carbon Disulfide	1	52.4604	0	50	105	50	130
t-Butyl Alcohol	1	247.7006	0	200	124	20	130
n-Hexane	1	58.9731	0	50	118	50	130
Di-isopropyl-ether	1	44.7789	0	50	90	50	130
1,1-Dichloroethene	1	46.0318	0	50	92	50	130
Methyl Acetate	1	45.1001	0	50	90	50	130
Methyl-t-butyl ether	1	53.8827	0	50	108	50	130
1,1-Dichloroethane	1	37.4242	0	50	75	50	130
trans-1,2-Dichloroethene	1	52.7275	0	50	105	50	130
Ethyl-t-butyl ether	1	54.8802	0	50	110	50	130
cis-1,2-Dichloroethene	1	48.9129	0	50	98	50	130
Bromochloromethane	1	46.2895	0	50	93	50	130
2,2-Dichloropropane	1	57.0783	0	50	114	50	130
Ethyl acetate	1	58.3916	0	50	117	50	130
1,4-Dioxane	1	2772.205	0	2500	111	50	130
1,1-Dichloropropene	1	52.7445	0	50	105	50	130
Chloroform	1	48.5375	0	50	97	50	130
Cyclohexane	1	58.3505	0	50	117	50	130
1,2-Dichloroethane	1	44.7708	0	50	90	50	130
2-Butanone	1	63.9583	0	50	128	20	130
1,1,1-Trichloroethane	1	34.282	0	50	69	50	130
Carbon Tetrachloride	1	48.8586	0	50	98	50	130
Vinyl Acetate	1	44.5897	0	50	89	50	130
Bromodichloromethane	1	47.6754	0	50	95	50	130
Methylcyclohexane	1	61.0548	0	50	122	50	130
Dibromomethane	1	57.2587	0	50	115	50	130
1,2-Dichloropropane	1	52.5155	0	50	105	50	130
Trichloroethene	1	51.4246	0	50	103	50	130
Benzene	1	53.3132	0	50	107	50	130
tert-Amyl methyl ether	1	46.7659	0	50	94	50	130
Iso-propylacetate	1	63.0406	0	50	126	50	130
Methyl methacrylate	1	50.4696	0	50	101	50	130
Dibromochloromethane	1	50.6756	0	50	101	50	130
2-Chloroethylvinylether	1	38.1291	0	50	76	50	130
cis-1,3-Dichloropropene	1	41.0617	0	50	82	50	130
trans-1,3-Dichloropropene	1	36.2317	0	50	72	50	130
Ethyl methacrylate	1	48.2478	0	50	96	50	130
1,1,2-Trichloroethane	1	53.7636	0	50	108	50	130
1,2-Dibromoethane	1	82.863	0	50	166*	50	130
1,3-Dichloropropane	1	54.9162	0	50	110	50	130
4-Methyl-2-Pentanone	1	48.3205	0	50	97	20	130
2-Hexanone	1	47.3175	0	50	95	20	130
Tetrachloroethene	1	52.1358	0	50	104	50	130
Toluene	1	52.2746	0	50	105	50	130
1,1,1,2-Tetrachloroethane	1	50.0871	0	50	100	50	130
Chlorobenzene	1	51.4443	0	50	103	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	54.6839	0	50	109	50	130
n-Amyl acetate	1	49.1052	0	50	98	50	130
Bromoform	1	48.2997	0	50	97	20	130
Ethylbenzene	1	54.0464	0	50	108	50	130
1,1,2,2-Tetrachloroethane	1	59.991	0	50	120	50	130
Styrene	1	52.5497	0	50	105	50	130
m&p-Xylenes	1	113.224	0	100	113	50	130
o-Xylene	1	52.8991	0	50	106	50	130
trans-1,4-Dichloro-2-butene	1	51.9173	0	50	104	20	130
1,3-Dichlorobenzene	1	55.7083	0	50	111	50	130
1,4-Dichlorobenzene	1	51.5959	0	50	103	50	130
1,2-Dichlorobenzene	1	55.3207	0	50	111	50	130
Isopropylbenzene	1	54.156	0	50	108	50	130
Cyclohexanone	1	227.6235	0	250	91	50	130
Camphene	1	58.2643	0	50	117	50	130
1,2,3-Trichloropropane	1	53.3824	0	50	107	50	130
2-Chlorotoluene	1	54.6441	0	50	109	50	130
p-Ethyltoluene	1	59.5669	0	50	119	50	130
4-Chlorotoluene	1	53.9214	0	50	108	50	130
n-Propylbenzene	1	55.1411	0	50	110	50	130
Bromobenzene	1	58.9873	0	50	118	50	130
1,3,5-Trimethylbenzene	1	54.2051	0	50	108	50	130
Butyl methacrylate	1	51.5108	0	50	103	50	130
t-Butylbenzene	1	59.9237	0	50	120	50	130
1,2,4-Trimethylbenzene	1	58.8437	0	50	118	50	130
sec-Butylbenzene	1	63.6639	0	50	127	50	130
4-Isopropyltoluene	1	46.8016	0	50	94	50	130
n-Butylbenzene	1	61.7931	0	50	124	50	130
p-Diethylbenzene	1	62.2275	0	50	124	50	130
1,2,4,5-Tetramethylbenzene	1	65.5078	0	50	131*	50	130
1,2-Dibromo-3-Chloropropane	1	49.0273	0	50	98	50	130
Camphor	1	705.3974	0	500	141*	50	130
Hexachlorobutadiene	1	51.5519	0	50	103	50	130
1,2,4-Trichlorobenzene	1	50.7355	0	50	101	50	130
1,2,3-Trichlorobenzene	1	53.2717	0	50	107	50	130
Naphthalene	1	40.3354	0	50	81	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553445.D	AD27911-002(MS)	12/21/2021 2:46:00 PM
Non Spike(If applicable):	8M553449.D	AD27911-002	12/21/2021 4:06:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	55.3493	0	50	111	20	130
Dichlorodifluoromethane	1	46.2107	0	50	92	20	130
Chloromethane	1	39.7361	0	50	79	20	130
Bromomethane	1	32.3571	0	50	65	20	130
Vinyl Chloride	1	44.1413	0	50	88	20	130
Chloroethane	1	34.3017	0	50	69	20	130
Trichlorofluoromethane	1	38.2659	0	50	77	20	130
Ethyl ether	1	41.8544	0	50	84	50	130
Furan	1	39.6917	0	50	79	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	41.327	0	50	83	50	130
Methylene Chloride	1	69.5431	34.32	50	70	50	130
Acrolein	1	87.6083	0	200	44	20	130
Acrylonitrile	1	33.9626	0	50	68	20	130
Iodomethane	1	53.2445	0	50	106	50	130
Acetone	1	166.5466	0	200	83	20	130
Carbon Disulfide	1	29.1716	0	50	58	50	130
t-Butyl Alcohol	1	209.0618	0	200	105	20	130
n-Hexane	1	28.2489	0	50	56	50	130
Di-isopropyl-ether	1	27.3508	0	50	55	50	130
1,1-Dichloroethene	1	37.3363	0	50	75	50	130
Methyl Acetate	1	35.7275	0	50	71	50	130
Methyl-t-butyl ether	1	52.3797	0	50	105	50	130
1,1-Dichloroethane	1	22.761	0	50	46*	50	130
trans-1,2-Dichloroethene	1	32.2496	0	50	64	50	130
Ethyl-t-butyl ether	1	48.699	0	50	97	50	130
cis-1,2-Dichloroethene	1	29.0554	0	50	58	50	130
Bromochloromethane	1	30.9533	0	50	62	50	130
2,2-Dichloropropane	1	41.7655	0	50	84	50	130
Ethyl acetate	1	4.6849	0	50	9.4*	50	130
1,4-Dioxane	1	2345.637	0	2500	94	50	130
1,1-Dichloropropene	1	31.8258	0	50	64	50	130
Chloroform	1	35.1667	0	50	70	50	130
Cyclohexane	1	34.4609	0	50	69	50	130
1,2-Dichloroethane	1	30.4759	0	50	61	50	130
2-Butanone	1	5.0605	0	50	10*	20	130
1,1,1-Trichloroethane	1	15.5138	0	50	31*	50	130
Carbon Tetrachloride	1	33.4965	0	50	67	50	130
Vinyl Acetate	1	23.9958	0	50	48*	50	130
Bromodichloromethane	1	31.883	0	50	64	50	130
Methylcyclohexane	1	28.2833	0	50	57	50	130
Dibromomethane	1	33.4842	0	50	67	50	130
1,2-Dichloropropane	1	37.5754	0	50	75	50	130
Trichloroethene	1	29.7319	0	50	59	50	130
Benzene	1	37.382	0	50	75	50	130
tert-Amyl methyl ether	1	50.6883	0	50	101	50	130
Iso-propylacetate	1	7.9753	0	50	16*	50	130
Methyl methacrylate	1	49.2983	0	50	99	50	130
Dibromochloromethane	1	34.2351	0	50	68	50	130
2-Chloroethylvinylether	1	20.3548	0	50	41*	50	130
cis-1,3-Dichloropropene	1	16.316	0	50	33*	50	130
trans-1,3-Dichloropropene	1	12.343	0	50	25*	50	130
Ethyl methacrylate	1	5.2039	0	50	10*	50	130
1,1,2-Trichloroethane	1	39.6537	0	50	79	50	130
1,2-Dibromoethane	1	51.803	0	50	104	50	130
1,3-Dichloropropane	1	37.9052	0	50	76	50	130
4-Methyl-2-Pentanone	1	27.3469	0	50	55	20	130
2-Hexanone	1	15.8807	0	50	32	20	130
Tetrachloroethene	1	32.6965	0	50	65	50	130
Toluene	1	36.9017	0	50	74	50	130
1,1,1,2-Tetrachloroethane	1	34.0583	0	50	68	50	130
Chlorobenzene	1	28.2055	0	50	56	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	2.8947	0	50	5.8*	50	130
n-Amyl acetate	1	0	0	50	0*	50	130
Bromoform	1	35.7627	0	50	72	20	130
Ethylbenzene	1	47.6857	0	50	95	50	130
1,1,2,2-Tetrachloroethane	1	46.253	0	50	93	50	130
Styrene	1	33.7344	0	50	67	50	130
m&p-Xylenes	1	93.4972	1.4277	100	92	50	130
o-Xylene	1	44.6062	0	50	89	50	130
trans-1,4-Dichloro-2-butene	1	29.246	0	50	58	20	130
1,3-Dichlorobenzene	1	25.1751	0	50	50	50	130
1,4-Dichlorobenzene	1	21.665	0	50	43*	50	130
1,2-Dichlorobenzene	1	24.078	0	50	48*	50	130
Isopropylbenzene	1	43.4651	0	50	87	50	130
Cyclohexanone	1	111.5231	0	250	45*	50	130
Camphene	1	34.337	0	50	69	50	130
1,2,3-Trichloropropane	1	41.487	0	50	83	50	130
2-Chlorotoluene	1	36.6999	0	50	73	50	130
p-Ethyltoluene	1	39.9053	0	50	80	50	130
4-Chlorotoluene	1	30.9637	0	50	62	50	130
n-Propylbenzene	1	37.8157	0	50	76	50	130
Bromobenzene	1	32.447	0	50	65	50	130
1,3,5-Trimethylbenzene	1	38.0837	0	50	76	50	130
Butyl methacrylate	1	9.534	0	50	19*	50	130
t-Butylbenzene	1	41.0813	0	50	82	50	130
1,2,4-Trimethylbenzene	1	37.8698	0	50	76	50	130
sec-Butylbenzene	1	39.1407	0	50	78	50	130
4-Isopropyltoluene	1	27.9102	0	50	56	50	130
n-Butylbenzene	1	31.1793	0	50	62	50	130
p-Diethylbenzene	1	31.4653	0	50	63	50	130
1,2,4,5-Tetramethylbenzene	1	28.4355	0	50	57	50	130
1,2-Dibromo-3-Chloropropane	1	32.3984	0	50	65	50	130
Camphor	1	376.3719	0	500	75	50	130
Hexachlorobutadiene	1	18.5352	0	50	37*	50	130
1,2,4-Trichlorobenzene	1	11.8978	0	50	24*	50	130
1,2,3-Trichlorobenzene	1	12.7418	2.406	50	21*	50	130
Naphthalene	1	13.8288	0	50	28*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553448.D	AD27911-002(MSD)	12/21/2021 3:46:00 PM
Non Spike(If applicable):	8M553449.D	AD27911-002	12/21/2021 4:06:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	47.459	0	50	95	20	130
Dichlorodifluoromethane	1	56.0524	0	50	112	20	130
Chloromethane	1	50.6459	0	50	101	20	130
Bromomethane	1	38.7841	0	50	78	20	130
Vinyl Chloride	1	50.1601	0	50	100	20	130
Chloroethane	1	40.7136	0	50	81	20	130
Trichlorofluoromethane	1	45.2013	0	50	90	20	130
Ethyl ether	1	51.7549	0	50	104	50	130
Furan	1	39.9669	0	50	80	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	47.1111	0	50	94	50	130
Methylene Chloride	1	105.8442	34.32	50	143*	50	130
Acrolein	1	90.4074	0	200	45	20	130
Acrylonitrile	1	32.2689	0	50	65	20	130
Iodomethane	1	69.8025	0	50	140*	50	130
Acetone	1	198.9865	0	200	99	20	130
Carbon Disulfide	1	31.6607	0	50	63	50	130
t-Butyl Alcohol	1	258.5145	0	200	129	20	130
n-Hexane	1	32.7376	0	50	65	50	130
Di-isopropyl-ether	1	46.6257	0	50	93	50	130
1,1-Dichloroethene	1	42.5326	0	50	85	50	130
Methyl Acetate	1	36.3313	0	50	73	50	130
Methyl-t-butyl ether	1	70.828	0	50	142*	50	130
1,1-Dichloroethane	1	30.0411	0	50	60	50	130
trans-1,2-Dichloroethene	1	34.7341	0	50	69	50	130
Ethyl-t-butyl ether	1	67.5935	0	50	135*	50	130
cis-1,2-Dichloroethene	1	31.1454	0	50	62	50	130
Bromochloromethane	1	33.9662	0	50	68	50	130
2,2-Dichloropropane	1	46.9268	0	50	94	50	130
Ethyl acetate	1	6.5298	0	50	13*	50	130
1,4-Dioxane	1	2989.324	0	2500	120	50	130
1,1-Dichloropropene	1	35.5622	0	50	71	50	130
Chloroform	1	41.9367	0	50	84	50	130
Cyclohexane	1	39.4754	0	50	79	50	130
1,2-Dichloroethane	1	32.6721	0	50	65	50	130
2-Butanone	1	8.6167	0	50	17*	20	130
1,1,1-Trichloroethane	1	21.0789	0	50	42*	50	130
Carbon Tetrachloride	1	39.4335	0	50	79	50	130
Vinyl Acetate	1	41.4581	0	50	83	50	130
Bromodichloromethane	1	35.4149	0	50	71	50	130
Methylcyclohexane	1	33.576	0	50	67	50	130
Dibromomethane	1	32.6581	0	50	65	50	130
1,2-Dichloropropane	1	43.4892	0	50	87	50	130
Trichloroethene	1	32.5285	0	50	65	50	130
Benzene	1	41.0317	0	50	82	50	130
tert-Amyl methyl ether	1	61.9687	0	50	124	50	130
Iso-propylacetate	1	18.2089	0	50	36*	50	130
Methyl methacrylate	1	47.8571	0	50	96	50	130
Dibromochloromethane	1	39.2349	0	50	78	50	130
2-Chloroethylvinylether	1	24.6469	0	50	49*	50	130
cis-1,3-Dichloropropene	1	21.0561	0	50	42*	50	130
trans-1,3-Dichloropropene	1	16.7229	0	50	33*	50	130
Ethyl methacrylate	1	7.623	0	50	15*	50	130
1,1,2-Trichloroethane	1	47.159	0	50	94	50	130
1,2-Dibromoethane	1	47.9778	0	50	96	50	130
1,3-Dichloropropane	1	42.5549	0	50	85	50	130
4-Methyl-2-Pentanone	1	33.5739	0	50	67	20	130
2-Hexanone	1	16.9136	0	50	34	20	130
Tetrachloroethene	1	40.3045	0	50	81	50	130
Toluene	1	44.4767	0	50	89	50	130
1,1,1,2-Tetrachloroethane	1	43.005	0	50	86	50	130
Chlorobenzene	1	31.9309	0	50	64	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	7.7166	0	50	15*	50	130
n-Amyl acetate	1	8.0794	0	50	16*	50	130
Bromoform	1	42.8727	0	50	86	20	130
Ethylbenzene	1	56.6643	0	50	113	50	130
1,1,2,2-Tetrachloroethane	1	62.1499	0	50	124	50	130
Styrene	1	41.1268	0	50	82	50	130
m&p-Xylenes	1	118.1485	1.4277	100	117	50	130
o-Xylene	1	55.9408	0	50	112	50	130
trans-1,4-Dichloro-2-butene	1	40.4581	0	50	81	20	130
1,3-Dichlorobenzene	1	31.9062	0	50	64	50	130
1,4-Dichlorobenzene	1	28.467	0	50	57	50	130
1,2-Dichlorobenzene	1	29.9693	0	50	60	50	130
Isopropylbenzene	1	55.4047	0	50	111	50	130
Cyclohexanone	1	193.3875	0	250	77	50	130
Camphene	1	49.2071	0	50	98	50	130
1,2,3-Trichloropropane	1	50.7127	0	50	101	50	130
2-Chlorotoluene	1	45.3686	0	50	91	50	130
p-Ethyltoluene	1	51.2233	0	50	102	50	130
4-Chlorotoluene	1	36.097	0	50	72	50	130
n-Propylbenzene	1	49.5037	0	50	99	50	130
Bromobenzene	1	39.0445	0	50	78	50	130
1,3,5-Trimethylbenzene	1	50.1551	0	50	100	50	130
Butyl methacrylate	1	22.0138	0	50	44*	50	130
t-Butylbenzene	1	54.5501	0	50	109	50	130
1,2,4-Trimethylbenzene	1	49.0965	0	50	98	50	130
sec-Butylbenzene	1	53.3009	0	50	107	50	130
4-Isopropyltoluene	1	37.3526	0	50	75	50	130
n-Butylbenzene	1	43.6715	0	50	87	50	130
p-Diethylbenzene	1	44.0103	0	50	88	50	130
1,2,4,5-Tetramethylbenzene	1	40.8248	0	50	82	50	130
1,2-Dibromo-3-Chloropropane	1	33.2178	0	50	66	50	130
Camphor	1	1809.99	0	500	362*	50	130
Hexachlorobutadiene	1	26.4439	0	50	53	50	130
1,2,4-Trichlorobenzene	1	20.7675	0	50	42*	50	130
1,2,3-Trichlorobenzene	1	22.3147	2.406	50	40*	50	130
Naphthalene	1	23.3995	0	50	47*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98291

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553448.D	AD27911-002(MSD)	12/21/2021 3:46:00 PM
Duplicate(If applicable):	8M553445.D	AD27911-002(MS)	12/21/2021 2:46:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	47.459	55.3493	15	30
Dichlorodifluoromethane	**1**	**56.0524**	**46.2107**	**19**	**30**
Chloromethane	**1**	**50.6459**	**39.7361**	**24**	**30**
Bromomethane	**1**	**38.7841**	**32.3571**	**18**	**30**
Vinyl Chloride	**1**	**50.1601**	**44.1413**	**13**	**40**
Chloroethane	**1**	**40.7136**	**34.3017**	**17**	**30**
Trichlorofluoromethane	**1**	**45.2013**	**38.2659**	**17**	**30**
Ethyl ether	1	51.7549	41.8544	21	30
Furan	1	39.9669	39.6917	0.69	30
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**47.1111**	**41.327**	**13**	**30**
Methylene Chloride	**1**	**105.8442**	**69.5431**	**41***	**30**
Acrolein	**1**	**90.4074**	**87.6083**	**3.1**	**30**
Acrylonitrile	**1**	**32.2689**	**33.9626**	**5.1**	**30**
Iodomethane	1	69.8025	53.2445	27	30
Acetone	**1**	**198.9865**	**166.5466**	**18**	**30**
Carbon Disulfide	**1**	**31.6607**	**29.1716**	**8.2**	**30**
t-Butyl Alcohol	**1**	**258.5145**	**209.0618**	**21**	**30**
n-Hexane	1	32.7376	28.2489	15	30
Di-isopropyl-ether	1	46.6257	27.3508	52*	30
1,1-Dichloroethene	**1**	**42.5326**	**37.3363**	**13**	**40**
Methyl Acetate	**1**	**36.3313**	**35.7275**	**1.7**	**30**
Methyl-t-butyl ether	**1**	**70.828**	**52.3797**	**30**	**30**
1,1-Dichloroethane	**1**	**30.0411**	**22.761**	**28**	**40**
trans-1,2-Dichloroethene	**1**	**34.7341**	**32.2496**	**7.4**	**30**
Ethyl-t-butyl ether	1	67.5935	48.699	32*	30
cis-1,2-Dichloroethene	**1**	**31.1454**	**29.0554**	**6.9**	**30**
Bromochloromethane	**1**	**33.9662**	**30.9533**	**9.3**	**30**
2,2-Dichloropropane	1	46.9268	41.7655	12	30
Ethyl acetate	1	6.5298	4.6849	33*	30
1,4-Dioxane	**1**	**2989.324**	**2345.637**	**24**	**30**
1,1-Dichloropropene	1	35.5622	31.8258	11	30
Chloroform	**1**	**41.9367**	**35.1667**	**18**	**40**
Cyclohexane	**1**	**39.4754**	**34.4609**	**14**	**30**
1,2-Dichloroethane	**1**	**32.6721**	**30.4759**	**7**	**40**
2-Butanone	**1**	**8.6167**	**5.0605**	**52***	**40**
1,1,1-Trichloroethane	**1**	**21.0789**	**15.5138**	**30**	**30**
Carbon Tetrachloride	**1**	**39.4335**	**33.4965**	**16**	**40**
Vinyl Acetate	1	41.4581	23.9958	53*	30
Bromodichloromethane	**1**	**35.4149**	**31.883**	**10**	**30**
Methylcyclohexane	**1**	**33.576**	**28.2833**	**17**	**30**
Dibromomethane	1	32.6581	33.4842	2.5	30
1,2-Dichloropropane	**1**	**43.4892**	**37.5754**	**15**	**30**
Trichloroethene	**1**	**32.5285**	**29.7319**	**9**	**40**
Benzene	**1**	**41.0317**	**37.382**	**9.3**	**40**
tert-Amyl methyl ether	1	61.9687	50.6883	20	30
Iso-propylacetate	1	18.2089	7.9753	78*	30
Methyl methacrylate	1	47.8571	49.2983	3	30
Dibromochloromethane	**1**	**39.2349**	**34.2351**	**14**	**30**
2-Chloroethylvinylether	1	24.6469	20.3548	19	30
cis-1,3-Dichloropropene	**1**	**21.0561**	**16.316**	**25**	**30**
trans-1,3-Dichloropropene	**1**	**16.7229**	**12.343**	**30**	**30**
Ethyl methacrylate	1	7.623	5.2039	38*	30
1,1,2-Trichloroethane	**1**	**47.159**	**39.6537**	**17**	**30**
1,2-Dibromoethane	**1**	**47.9778**	**51.803**	**7.7**	**30**
1,3-Dichloropropane	1	42.5549	37.9052	12	30
4-Methyl-2-Pentanone	**1**	**33.5739**	**27.3469**	**20**	**30**
2-Hexanone	**1**	**16.9136**	**15.8807**	**6.3**	**30**
Tetrachloroethene	**1**	**40.3045**	**32.6965**	**21**	**40**
Toluene	**1**	**44.4767**	**36.9017**	**19**	**40**
1,1,1,2-Tetrachloroethane	1	43.005	34.0583	23	30
Chlorobenzene	**1**	**31.9309**	**28.2055**	**12**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	7.7166	2.8947	91*	30
n-Amyl acetate	1	8.0794	0	200*	30
Bromoform	**1**	**42.8727**	**35.7627**	**18**	**30**
Ethylbenzene	**1**	**56.6643**	**47.6857**	**17**	**30**
1,1,2,2-Tetrachloroethane	**1**	**62.1499**	**46.253**	**29**	**30**
Styrene	**1**	**41.1268**	**33.7344**	**20**	**30**
m&p-Xylenes	**1**	**118.1485**	**93.4972**	**23**	**30**
o-Xylene	**1**	**55.9408**	**44.6062**	**23**	**30**
trans-1,4-Dichloro-2-butene	1	40.4581	29.246	32*	30
1,3-Dichlorobenzene	**1**	**31.9062**	**25.1751**	**24**	**30**
1,4-Dichlorobenzene	**1**	**28.467**	**21.665**	**27**	**40**
1,2-Dichlorobenzene	**1**	**29.9693**	**24.078**	**22**	**40**
Isopropylbenzene	**1**	**55.4047**	**43.4651**	**24**	**30**
Cyclohexanone	1	193.3875	111.5231	54*	30
Camphene	1	49.2071	34.337	36*	30
1,2,3-Trichloropropane	1	50.7127	41.487	20	30
2-Chlorotoluene	1	45.3686	36.6999	21	30
p-Ethyltoluene	1	51.2233	39.9053	25	30
4-Chlorotoluene	1	36.097	30.9637	15	30
n-Propylbenzene	1	49.5037	37.8157	27	40
Bromobenzene	1	39.0445	32.447	18	30
1,3,5-Trimethylbenzene	1	50.1551	38.0837	27	30
Butyl methacrylate	1	22.0138	9.534	79*	30
t-Butylbenzene	1	54.5501	41.0813	28	30
1,2,4-Trimethylbenzene	1	49.0965	37.8698	26	30
sec-Butylbenzene	1	53.3009	39.1407	31	40
4-Isopropyltoluene	1	37.3526	27.9102	29	30
n-Butylbenzene	1	43.6715	31.1793	33*	30
p-Diethylbenzene	1	44.0103	31.4653	33*	30
1,2,4,5-Tetramethylbenzene	1	40.8248	28.4355	36*	30
1,2-Dibromo-3-Chloropropane	**1**	**33.2178**	**32.3984**	**2.5**	**30**
Camphor	1	1809.99	376.3719	131*	30
Hexachlorobutadiene	1	26.4439	18.5352	35*	30
1,2,4-Trichlorobenzene	**1**	**20.7675**	**11.8978**	**54***	**30**
1,2,3-Trichlorobenzene	**1**	**22.3147**	**12.7418**	**55***	**30**
Naphthalene	1	23.3995	13.8288	51*	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M553439.D
Matrix: Soil

Blank Analysis Date: 12/21/21 12:44
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD27961-001	8M553460.D	12/21/21 19:49
AD27961-002	8M553459.D	12/21/21 19:29
AD27961-003	8M553458.D	12/21/21 19:08
AD27911-002	8M553449.D	12/21/21 16:06
AD27911-002(MSD	8M553448.D	12/21/21 15:46
MBS98291	8M553446.D	12/21/21 15:06
AD27911-002(MS)	8M553445.D	12/21/21 14:46

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 8M553313.D
Analysis Date: 12/17/21 22:25
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.359 to 7.394 min

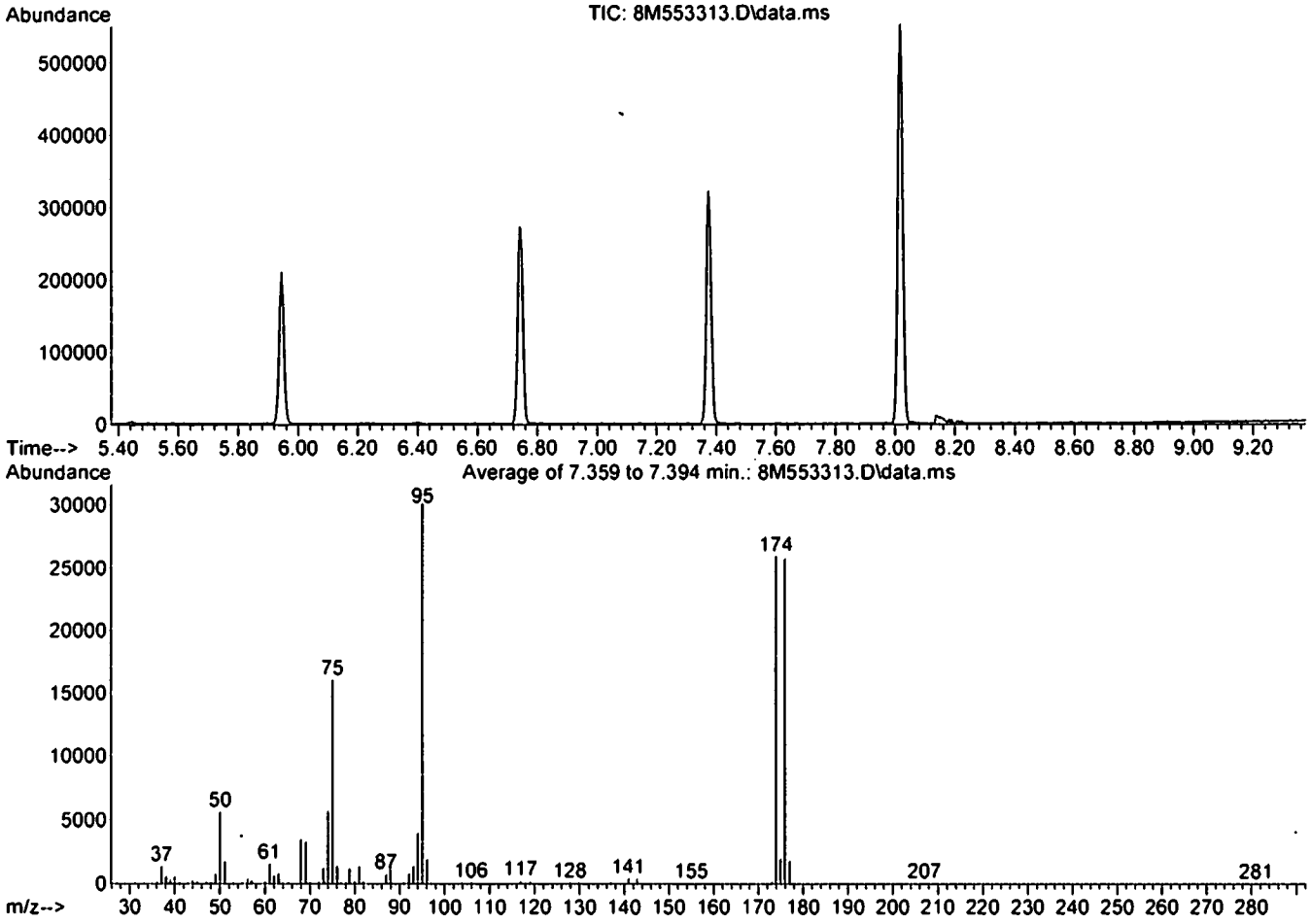
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	5648	PASS
75	95	30	60	53.4	16104	PASS
95	95	100	100	100.0	30163	PASS
96	95	5	9	6.5	1970	PASS
173	174	0.00	2	0.7	190	PASS
174	95	50	100	86.2	25991	PASS
175	174	5	9	7.8	2035	PASS
176	174	95	101	99.3	25801	PASS
177	176	5	9	7.2	1854	PASS

Data File	Sample Number	Analysis Date:
8M553317.D	CAL @ 5 PPB	12/17/21 23:46
8M553318.D	CAL @ 2 PPB	12/18/21 00:06
8M553319.D	CAL @ 1 PPB	12/18/21 00:27
8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47
8M553321.D	CAL @ 20 PPB	12/18/21 01:07
8M553322.D	CAL @ 50 PPB	12/18/21 01:27
8M553323.D	CAL @100 PPB	12/18/21 01:48
8M553324.D	CAL @ 250 PPB	12/18/21 02:08
8M553325.D	CAL @ 500 PPB	12/18/21 02:28
8M553330.D	ICV	12/18/21 04:09
8M553334.D	STD	12/18/21 05:30
8M553335.D	BLK	12/18/21 05:50
8M553336.D	BLK	12/18/21 06:11
8M553337.D	BLK	12/18/21 06:31
8M553338.D	BLK	12/18/21 06:51
8M553339.D	BLK	12/18/21 07:11
8M553340.D	BLK	12/18/21 07:32
8M553341.D	DAILY BLANK	12/18/21 07:52
8M553342.D	AD27831-002	12/18/21 08:12
8M553343.D	AD27831-004	12/18/21 08:32
8M553344.D	AD27831-005	12/18/21 08:53
8M553345.D	AD27831-006	12/18/21 09:13
8M553346.D	AD27840-002	12/18/21 09:33
8M553347.D	AD27697-002	12/18/21 09:54
8M553348.D	MBS98260	12/18/21 10:14
8M553349.D	MBS98261	12/18/21 10:34
8M553350.D	BLK	12/18/21 10:54
8M553351.D	BLK	12/18/21 11:15
8M553352.D	BLK	12/18/21 11:35
8M553353.D	BLK	12/18/21 11:55
8M553354.D	BLK	12/20/21 06:40
8M553355.D	BLK	12/20/21 07:01

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-1721\
Data File : 8M553313.D
Acq On : 17 Dec 2021 22:25
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_11\MethodQt\11M_A1203.M
Title : @GCMS_11,ug,624,8260
Last Update : Mon Dec 06 16:37:09 2021



Spectrum Information: Average of 7.359 to 7.394 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	5648	PASS
75	95	30	60	53.4	16104	PASS
95	95	100	100	100.0	30163	PASS
96	95	5	9	6.5	1970	PASS
173	174	0.00	2	0.7	190	PASS
174	95	50	100	86.2	25991	PASS
175	174	5	9	7.8	2035	PASS
176	174	95	101	99.3	25801	PASS
177	176	5	9	7.2	1854	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M553432.D
Analysis Date: 12/21/21 10:23
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.368 to 7.394 min

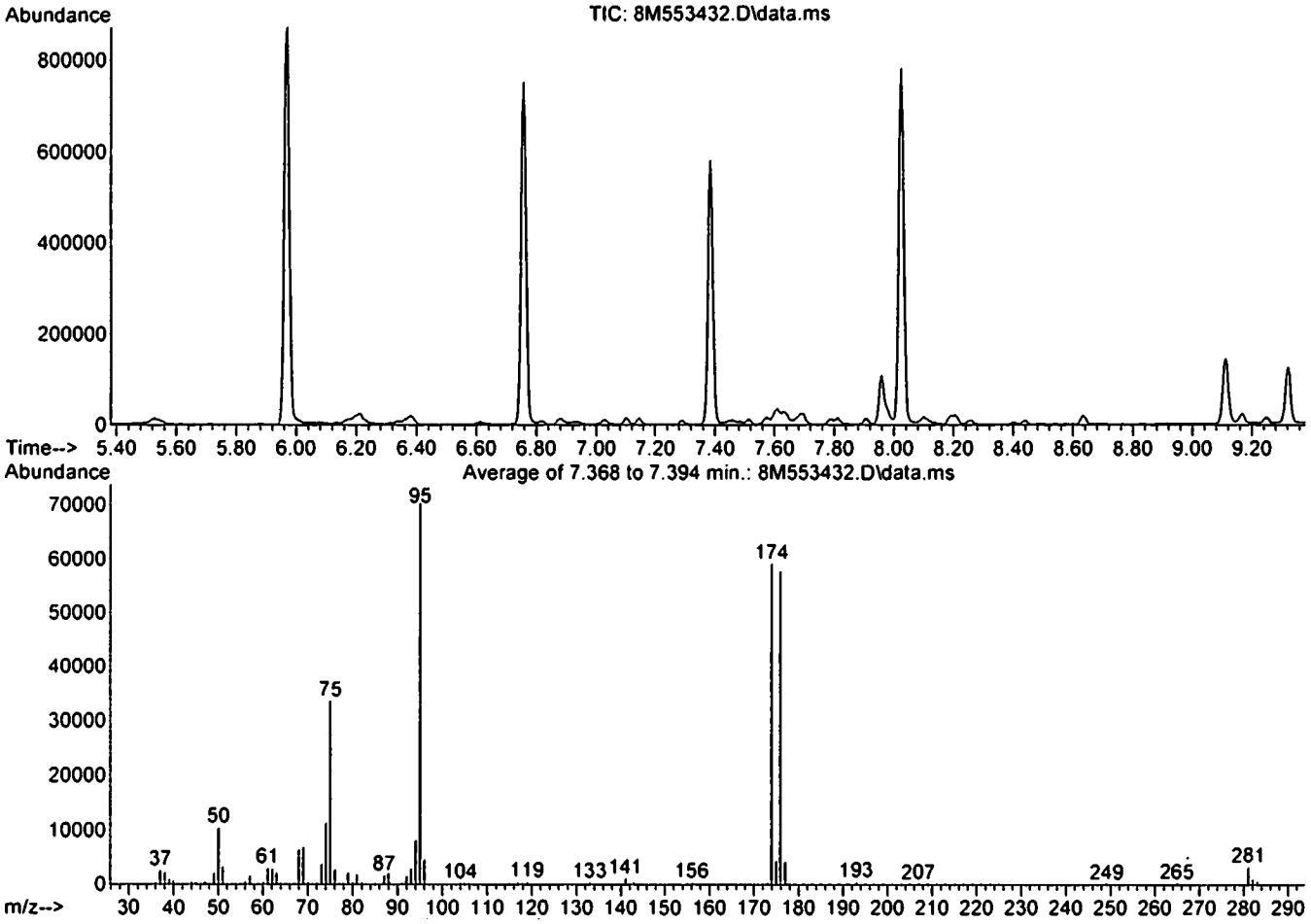
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.0	10561	PASS
75	95	30	60	47.8	33651	PASS
95	95	100	100	100.0	70402	PASS
96	95	5	9	6.6	4662	PASS
173	174	0.00	2	0.7	412	PASS
174	95	50	100	84.1	59222	PASS
175	174	5	9	7.5	4446	PASS
176	174	95	101	97.7	57857	PASS
177	176	5	9	7.4	4303	PASS

Data File	Sample Number	Analysis Date:
8M553433.D	50 PPB	12/21/21 10:43
8M553434.D	CAL @ 50 PPB	12/21/21 11:04
8M553435.D	BLK	12/21/21 11:24
8M553436.D	BLK	12/21/21 11:44
8M553437.D	BLK	12/21/21 12:04
8M553438.D	BLK	12/21/21 12:24
8M553439.D	DAILY BLANK	12/21/21 12:44
8M553440.D	AD27953-002	12/21/21 13:05
8M553441.D	AD27953-001	12/21/21 13:25
8M553442.D	AD27950-001	12/21/21 13:45
8M553443.D	AD27983-001	12/21/21 14:05
8M553444.D	AD27883-003	12/21/21 14:26
8M553445.D	AD27911-002(MS)	12/21/21 14:46
8M553446.D	MBS98291	12/21/21 15:06
8M553447.D	MBS98292	12/21/21 15:26
8M553448.D	AD27911-002(MSD	12/21/21 15:46
8M553449.D	AD27911-002	12/21/21 16:06
8M553450.D	BLK	12/21/21 16:27
8M553451.D	BLK	12/21/21 16:47
8M553452.D	AD27952-003	12/21/21 17:07
8M553453.D	AD27952-001	12/21/21 17:27
8M553454.D	AD28000-001	12/21/21 17:47
8M553455.D	AD27963-001	12/21/21 18:08
8M553456.D	AD27963-002	12/21/21 18:28
8M553457.D	AD27963-003	12/21/21 18:48
8M553458.D	AD27961-003	12/21/21 19:08
8M553459.D	AD27961-002	12/21/21 19:29
8M553460.D	AD27961-001	12/21/21 19:49
8M553461.D	AD27990-006	12/21/21 20:09
8M553462.D	AD27993-001	12/21/21 20:29
8M553463.D	AD27993-002	12/21/21 20:49
8M553464.D	AD27981-004	12/21/21 21:10
8M553465.D	AD27992-012	12/21/21 21:30
8M553466.D	AD27992-011	12/21/21 21:50
8M553467.D	BLK	12/21/21 22:10

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Data File : 8M553432.D
Acq On : 21 Dec 2021 10:23
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_8\MethodQt\8M_S1217.M
Title : @GCMS_8,ug,624,8260
Last Update : Mon Dec 20 09:34:40 2021



Spectrum Information: Average of 7.368 to 7.394 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	10561	PASS
75	95	30	60	47.8	33651	PASS
95	95	100	100	100.0	70402	PASS
96	95	5	9	6.6	4662	PASS
173	174	0.00	2	0.7	412	PASS
174	95	50	100	84.1	59222	PASS
175	174	5	9	7.5	4446	PASS
176	174	95	101	97.7	57857	PASS
177	176	5	9	7.4	4303	PASS

1121702 0046

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M553321.D	CAL @ 20 PPB	12/18/21 01:07	2	8M553317.D	CAL @ 5 PPB	12/17/21 23:46
3	8M553318.D	CAL @ 2 PPB	12/18/21 00:06	4	8M553322.D	CAL @ 50 PPB	12/18/21 01:27
5	8M553323.D	CAL @100 PPB	12/18/21 01:48	6	8M553324.D	CAL @ 250 PPB	12/18/21 02:08
7	8M553325.D	CAL @ 500 PPB	12/18/21 02:28	8	8M553319.D	CAL @ 1 PPB	12/18/21 00:27
9	8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2524	0.2590	0.2187	0.2749	0.2991	0.2943	0.2471	----	----	0.264	1.66	0.991	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.1944	0.2013	0.1932	0.2123	0.2362	0.2338	0.1965	----	----	0.210	1.66	0.991	0.999	8.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1848	0.2131	0.1967	0.1949	0.2174	0.2273	0.2002	----	----	0.205	1.82	0.996	0.999	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1361	0.1486	0.1532	0.1467	0.1711	0.1966	0.1845	----	----	0.162	2.20	0.998	0.999	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.2556	0.2762	0.2682	0.2576	0.2733	0.2620	0.2174	----	----	0.259	1.92	0.990	1.00	7.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Qua	0.1199	0.1364	0.1011	0.1230	0.1425	0.1458	0.1283	----	----	0.128	2.28	0.995	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.4108	0.4314	0.3797	0.4283	0.4737	0.4649	0.3953	----	----	0.426	2.49	0.993	1.00	8.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1055	0.1213	0.1317	0.1043	0.1063	0.1112	0.0972	----	----	0.111	2.71	0.995	0.999	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.3116	0.3403	0.3181	0.3115	0.3383	0.3410	0.2883	----	----	0.321	2.75	0.992	0.999	6.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1841	0.2086	0.1859	0.1965	0.2184	0.2160	0.1834	----	----	0.199	2.90	0.992	0.999	7.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.1843	0.2115	0.2039	0.1866	0.2061	0.2132	0.1850	----	----	0.199	3.31	0.995	0.999	6.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0191	0.0248	0.0211	0.0168	0.0163	0.0142	0.0117	----	----	0.0178	2.81	0.988	1.00	25		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0234	0.0230	0.0294	0.0233	0.0244	0.0242	0.0213	----	----	0.0242	3.49	0.996	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.0322	0.0327	0.0139	0.0379	0.0283	0.0208	0.0227	----	----	0.0270	3.06	0.991	0.991	31		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0234	0.0264	0.0299	0.0198	0.0203	0.0193	0.0185	----	----	0.0226	2.93	1.00	1.00	19	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.5900	0.6513	0.5976	0.6294	0.6956	0.6761	0.5769	----	----	0.631	3.12	0.993	1.00	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0211	0.0244	0.0263	0.0208	0.0212	0.0222	0.0194	----	----	0.0223	2.71	0.995	0.999	11		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.2123	0.2460	0.2329	0.2268	0.2463	0.2417	0.2079	----	----	0.231	3.76	0.994	1.00	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Qua	0.1149	0.1256	0.1185	0.1431	0.1765	0.2108	0.2399	----	----	0.161	3.92	0.995	1.00	30		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.4502	0.4778	0.4978	0.4362	0.4507	0.4011	0.3173	----	----	0.433	2.92	0.982	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0469	0.0507	0.0582	0.0513	0.0587	0.0674	0.0630	----	----	0.0567	3.20	0.998	0.999	13	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.0045	0.0035	0.0028	0.0041	0.0051	0.0046	0.0039	0.0048	----	0.00422	3.51	0.993	0.999	18	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Qua	0.1564	0.1282	0.2607	0.2169	0.2759	0.3159	0.2887	----	----	0.235	3.89	0.997	0.998	30	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.2068	0.2274	0.2088	0.2102	0.2337	0.2288	0.1961	----	----	0.216	3.54	0.993	1.00	6.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Qua	0.0062	0.0112	0.0072	0.0065	0.0059	0.0054	0.0047	----	----	0.00678	4.21	0.994	1.00	31	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.2578	0.2633	0.2682	0.2623	0.2806	0.2861	0.2491	----	----	0.267	4.35	0.995	0.999	4.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1026	0.1102	0.1038	0.1025	0.1175	0.1256	0.1099	----	----	0.110	4.52	0.995	0.999	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Qua	0.0056	0.0019	0.0084	0.0061	0.0069	0.0071	0.0080	----	----	0.00635	4.34	0.997	1.00	34		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.0350	0.0416	0.0571	0.0358	0.0462	0.0510	0.0494	----	----	0.0452	4.38	0.999	0.999	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0009	0.0011	0.0009	0.0009	0.0009	0.0009	0.0008	----	----	0.000960	5.49	0.995	1.00	11		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.2818	0.2996	0.2746	0.3061	0.3405	0.3235	0.2759	----	----	0.300	4.80	0.992	1.00	8.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.3635	0.3735	0.3467	0.3720	0.4036	0.4060	0.3498	----	----	0.374	4.56	0.994	0.999	6.3	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2527	0.2554	0.2514	0.2565	0.2594	0.2551	0.2522	0.2441	0.2452	0.252	4.67	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2555	0.2654	0.2405	0.2758	0.3011	0.2983	0.2532	----	----	0.270	4.74	0.992	0.999	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1014	0.1032	0.1011	0.1013	0.1039	0.0995	0.0937	0.0974	0.1038	0.101	4.89	-1	-1	3.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2166	0.2263	0.2058	0.2188	0.2364	0.2472	0.2050	----	----	0.222	4.93	0.991	0.999	7.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0217	0.0286	0.0361	0.0269	0.0293	0.0328	0.0284	----	----	0.0292	4.37	0.994	0.998	15	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Qua	0.1213	0.0959	0.0625	0.2023	0.2778	0.3321	0.3213	----	----	0.202	4.70	0.998	0.998	55	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.2612	0.2900	0.2375	0.2817	0.3166	0.3185	0.2796	----	----	0.284	4.81	0.995	0.999	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Qua	0.0649	0.0822	0.0750	0.0862	0.1041	0.1282	0.1546	----	----	0.0994	3.92	0.992	1.00	32		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.2400	0.2504	0.2390	0.2425	0.2607	0.2687	0.2351	----	----	0.248	5.56	0.995	0.999	5.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.2

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121702 0047

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M553321.D	CAL @ 20 PPB	12/18/21 01:07	2	8M553317.D	CAL @ 5 PPB	12/17/21 23:46
3	8M553318.D	CAL @ 2 PPB	12/18/21 00:06	4	8M553322.D	CAL @ 50 PPB	12/18/21 01:27
5	8M553323.D	CAL @100 PPB	12/18/21 01:48	6	8M553324.D	CAL @ 250 PPB	12/18/21 02:08
7	8M553325.D	CAL @ 500 PPB	12/18/21 02:28	8	8M553319.D	CAL @ 1 PPB	12/18/21 00:27
9	8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.3121	0.3174	0.2717	0.3403	0.3771	0.3712	0.3202	----	----	0.330	5.42	0.994	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Qua	0.0852	0.0989	0.0954	0.0787	0.0750	0.0606	0.0522	----	----	0.0781	5.49	0.990	0.999	22		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.1527	0.1476	0.1413	0.1599	0.1717	0.1728	0.1526	----	----	0.157	5.42	0.996	1.00	7.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.2467	0.2615	0.2394	0.2584	0.2813	0.2773	0.2425	----	----	0.258	5.29	0.995	1.00	6.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.7369	0.7579	0.7206	0.7486	0.8171	0.8106	0.6959	0.6662	----	0.744	4.93	0.994	1.00	7.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Qua	0.0078	0.0080	0.0104	0.0042	0.0044	0.0047	0.0038	----	----	0.00624	4.97	0.991	0.997	41		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Qua	0.0217	0.0297	0.0332	0.0258	0.0333	0.0517	----	----	----	0.0326	4.93	0.977	1.00	32	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Methyl methacrylate	1	0	Avg	0.0819	0.0763	0.0925	0.0856	0.0941	0.0913	0.0824	----	----	0.0863	5.46	0.997	1.00	7.6	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.2069	0.2200	0.1810	0.2074	0.2261	0.2315	0.2082	----	----	0.212	6.44	0.997	1.00	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0270	0.0163	0.0050	0.0408	0.0528	0.0579	0.0540	----	----	0.0363	5.75	0.998	0.999	57		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Qua	0.1530	0.1254	0.0969	0.2117	0.2572	0.2814	0.2585	----	----	0.198	5.81	0.997	0.999	37	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Qua	0.0748	0.0489	0.0665	0.1162	0.1587	0.1956	0.1996	----	----	0.123	6.10	0.998	0.999	51	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.1014	0.1117	0.1140	0.1006	0.1111	0.1145	0.1044	----	----	0.108	6.13	0.998	1.00	5.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1462	0.1628	0.1474	0.1462	0.1534	0.1522	0.1370	----	----	0.149	6.21	0.997	1.00	5.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Qua	0.0942	0.1186	0.1170	0.0780	0.0584	0.0441	0.0439	0.1084	----	0.0829	6.51	0.993	0.993	38	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.2313	0.2454	0.2100	0.2280	0.2371	0.2231	0.2011	----	----	0.225	6.31	0.997	1.00	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.0614	0.0798	0.0684	0.0601	0.0643	0.0663	0.0645	----	----	0.0664	5.88	1.00	1.00	9.8	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0399	0.0447	0.0580	0.0349	0.0380	0.0399	0.0404	----	----	0.0423	6.33	1.00	1.00	18	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.2517	0.2692	0.2558	0.2654	0.2941	0.2790	0.2489	----	----	0.266	6.31	0.996	1.00	6.1	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.2881	1.2862	1.2711	1.2721	1.3037	1.2771	1.2800	1.2803	1.2674	1.28	5.97	-1	-1	0.86		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6233	0.6739	0.6302	0.6391	0.7001	0.6889	0.6016	0.6534	----	0.651	6.00	0.995	1.00	5.2	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2472	0.2575	0.2242	0.2498	0.2701	0.2757	0.2553	----	----	0.254	6.81	0.998	1.00	6.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.6924	0.7434	0.6548	0.6965	0.7552	0.7537	0.6662	----	----	0.709	6.77	0.996	1.00	5.9	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.3065	0.3342	0.3454	0.3285	0.3871	0.4676	----	----	----	0.362	7.02	0.994	1.00	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
n-Amyl acetate	1	0	Avg	0.2389	0.2467	0.3547	0.2618	0.2909	0.3568	----	----	----	0.292	7.14	0.993	1.00	18	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Bromoform	1	0	Avg	0.2153	0.2430	0.2329	0.2376	0.2463	0.2958	----	----	----	0.245	7.22	0.995	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Ethylbenzene	1	0	Avg	0.6348	0.6591	0.6143	0.6701	0.7707	0.8524	0.7043	0.6521	----	0.695	6.82	0.991	0.998	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.2858	0.3135	0.2865	0.2878	0.3064	0.3711	0.1768	----	----	0.290	7.44	0.820	0.975	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7364	0.7655	0.7566	0.7796	0.7560	0.9231	0.3201	0.7535	0.7444	0.726	7.38	-1	-1	22		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.2683	1.2942	1.1444	1.4480	1.5134	1.7588	----	----	----	1.40	7.10	0.997	1.00	16	0.30	20.00	5.00	2.00	50.00	100.0	250.0			
m&p-Xylenes	1	0	Avg	0.8606	0.8805	0.8291	0.9443	1.0266	1.1265	0.6544	0.8586	0.8567	0.893	6.88	0.916	0.990	15	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8290	0.8264	0.7912	0.9580	0.9764	1.1209	----	0.8528	----	0.908	7.10	0.997	1.00	13	0.30	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1030	0.1068	0.1059	0.1121	0.1366	0.1561	0.0921	----	----	0.116	7.46	0.912	0.988	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.0089	1.1206	1.0191	1.0359	1.1595	0.9251	0.8226	----	----	1.01	7.99	0.992	0.998	11	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.9978	1.0796	1.0063	1.0301	1.1163	1.2110	1.0397	----	----	1.07	8.04	0.994	0.999	7.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.8706	0.9038	0.8521	0.8874	0.9866	0.8139	0.8019	----	----	0.874	8.25	0.998	0.999	7.1	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.3095	2.3363	2.1177	2.6067	2.7891	3.2787	----	1.9193	----	2.48	7.29	0.996	1.00	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
Cyclohexanone	1	0	Avg	0.0013	0.0011	0.0015	0.0011	0.0009	0.0009	----	----	----	0.00119	7.36	0.997	0.998	20		100.0	25.00	10.00	250.0	500.0	1250.			
Camphene	1	0	Avg	0.6498	0.6491	0.6302	0.7292	0.8338	1.0008	0.6266	----	----	0.731	7.46	0.933	0.988	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.3033	0.3150	0.2975	0.3013	0.3348	0.4041	0.2788	----	----	0.319	7.47	0.960	0.991	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.3990	1.5726	1.3559	1.4507	1.6340	1.7481	1.1462	----	----	1.47	7.58	0.945	0.994	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.2
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121702 0048

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	8M553321.D	CAL @ 20 PPB	12/18/21 01:07	2	8M553317.D	CAL @ 5 PPB	12/17/21 23:46
3	8M553318.D	CAL @ 2 PPB	12/18/21 00:06	4	8M553322.D	CAL @ 50 PPB	12/18/21 01:27
5	8M553323.D	CAL @100 PPB	12/18/21 01:48	6	8M553324.D	CAL @ 250 PPB	12/18/21 02:08
7	8M553325.D	CAL @ 500 PPB	12/18/21 02:28	8	8M553319.D	CAL @ 1 PPB	12/18/21 00:27
9	8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.2588	2.3398	2.0722	2.4265	2.7292	3.0081	1.7071	-----	-----	2.36	7.57	0.897	0.989	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.3309	1.4105	1.3515	1.3791	1.5111	1.5058	1.2250	-----	-----	1.39	7.64	0.988	0.999	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	2.6169	2.7039	2.4357	2.8080	3.1143	3.6335	2.2644	2.4707	-----	2.76	7.51	0.936	0.990	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.9424	0.9862	0.7605	1.0134	1.1129	1.3257	0.9148	-----	-----	1.01	7.48	0.960	0.992	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	1.8170	1.9002	1.6167	1.9093	2.1524	2.2396	1.6975	1.6264	-----	1.87	7.60	0.979	0.998	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.3164	0.2874	0.3538	0.3185	0.3776	0.3278	0.2633	-----	-----	0.321	7.61	0.983	0.999	12	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	1.9331	1.9281	1.7708	2.0774	2.3553	1.8794	1.4140	1.6593	-----	1.88	7.79	0.969	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.8359	1.8648	1.7239	1.9377	2.1869	1.5964	1.2736	1.7410	-----	1.77	7.81	0.974	0.997	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.4285	2.4364	2.1555	2.6056	2.9643	1.9955	1.4811	2.1432	-----	2.28	7.91	0.952	0.994	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	2.3022	2.5189	2.9428	2.3552	2.6181	1.7023	-----	3.8030	-----	2.61	7.98	0.958	0.996	25		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
n-Butylbenzene	1	0	Avg	2.2043	2.1611	1.9893	2.3443	2.6745	1.8347	1.6223	2.0658	-----	2.11	8.20	0.983	0.994	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.1477	1.1466	1.0888	1.2525	1.4565	1.1446	1.0019	-----	-----	1.18	8.19	0.990	0.998	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	1.4357	1.3719	1.3785	1.6463	1.9674	1.4858	1.0248	-----	-----	1.47	8.63	0.942	0.998	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Qua	0.0537	0.0800	0.0520	0.0550	0.0585	0.0410	-----	-----	-----	0.0567	8.69	0.972	0.998	23	0.05 a	20.00	5.00	2.00	50.00	100.0	250.0			
Camphor	1	0	Qua	0.0034	0.0092	0.0103	0.0059	0.0095	0.0126	-----	-----	-----	0.00853	9.11	0.984	0.998	38		200.0	50.00	20.00	500.0	1000.	2500.			
Hexachlorobutadiene	1	0	Avg	0.3533	0.3336	0.3339	0.3701	0.4288	0.4972	0.3599	-----	-----	0.382	9.25	0.970	0.994	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.4562	0.5220	0.4900	0.5023	0.5706	0.6885	-----	-----	-----	0.538	9.17	0.994	1.00	15	0.20	20.00	5.00	2.00	50.00	100.0	250.0			
1,2,3-Trichlorobenzen	1	0	Avg	0.3500	0.4025	0.3787	0.3768	0.4479	0.5650	0.3392	-----	-----	0.409	9.46	0.919	0.984	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.6096	0.6844	0.8746	0.6932	0.8424	1.0327	0.7409	1.1029	-----	0.823	9.32	0.970	0.992	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.2
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: 8M553434.D Instrument: GCMS 8

Cont Calibration Date/Time 12/21/2021 11:04:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	46.48	50	20	0.1	0.264	0.245	7.04	
Dichlorodifluoromethane	1	0		1.66	59.78	50	20	0.1	0.210	0.251	19.56	
Chloromethane	1	0		1.82	48.57	50	20	0.1	0.205	0.199	2.87	
Bromomethane	1	0		2.20	44.15	50	20	0.1	0.162	0.143	11.70	
Vinyl Chloride	1	0		1.92	52.48	50	20	0.1	0.259	0.271	4.96	
Chloroethane	1	0		2.28	40.89	50	20	0.1	0.128	0.125	18.22	
Trichlorofluoromethane	1	0		2.49	44.37	50	20	0.1	0.426	0.378	11.25	
Ethyl ether	1	0		2.71	43.59	50	20	0.5	0.111	0.097	12.83	
Furan	1	0		2.75	37.95	50	20	0.5	0.321	0.244	24.11	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.91	50.19	50	20	0.1	0.199	0.200	0.38	
Methylene Chloride	1	0		3.30	43.13	50	20	0.1	0.199	0.171	13.75	
Acrolein	1	0		2.81	233.41	250	20		0.018	0.015	6.64	
Acrylonitrile	1	0		3.49	49.24	50	20		0.024	0.024	1.53	
Iodomethane	1	0		3.06	83.17	50	20		0.027	0.039	66.35	C1
Acetone	1	0		2.93	195.42	250	20	0.1	0.023	0.018	21.83	C1
Carbon Disulfide	1	0		3.12	48.67	50	20	0.1	0.631	0.614	2.65	
t-Butyl Alcohol	1	0		2.71	217.71	250	20		0.022	0.019	12.92	
n-Hexane	1	0		3.76	58.07	50	20		0.231	0.268	16.13	
Di-isopropyl-ether	1	0		3.93	41.20	50	20		0.161	0.145	17.60	
1,1-Dichloroethene	1	0		2.91	43.03	50	20	0.1	0.433	0.373	13.93	
Methyl Acetate	1	0		3.20	37.09	50	20	0.1	0.057	0.042	25.81	C1
Methyl-t-butyl ether	1	0		3.51	54.25	50	20	0.1	0.004	0.005	8.51	
1,1-Dichloroethane	1	0		3.89	33.59	50	20	0.2	0.235	0.207	32.82	C1
trans-1,2-Dichloroethene	1	0		3.54	50.40	50	20	0.1	0.216	0.218	0.81	
Ethyl-t-butyl ether	1	0		4.21	44.52	50	20	0.5	0.007	0.005	10.96	
cis-1,2-Dichloroethene	1	0		4.35	45.10	50	20	0.1	0.267	0.241	9.79	
Bromochloromethane	1	0		4.52	42.67	50	20		0.110	0.094	14.65	
2,2-Dichloropropane	1	0		4.34	40.52	50	20		0.006	0.005	18.96	
Ethyl acetate	1	0		4.37	52.84	50	20		0.045	0.048	5.67	
1,4-Dioxane	1	0		5.49	2579.56	2500	20		0.001	0.001	3.18	
1,1-Dichloropropene	1	0		4.80	49.24	50	20		0.300	0.296	1.52	
Chloroform	1	0		4.56	44.92	50	20	0.2	0.374	0.336	10.16	
Dibromofluoromethane	1	0	S	4.67	29.87	75	**		0.253	0.251	0.45	
Cyclohexane	1	0		4.75	55.11	50	20	0.1	0.270	0.298	10.22	
1,2-Dichloroethane-d4	1	0	S	4.89	28.65	75	**		0.101	0.096	4.49	
1,2-Dichloroethane	1	0		4.93	40.78	50	20	0.1	0.222	0.181	18.45	
2-Butanone	1	0		4.37	50.91	50	20	0.1	0.029	0.030	1.82	
1,1,1-Trichloroethane	1	0		4.70	28.46	50	20	0.1	0.202	0.174	43.08	C1
Carbon Tetrachloride	1	0		4.81	43.75	50	20	0.1	0.284	0.248	12.51	
Vinyl Acetate	1	0		3.92	39.07	50	20		0.099	0.079	21.87	C1
Bromodichloromethane	1	0		5.56	44.40	50	20	0.2	0.248	0.220	11.20	
Methylcyclohexane	1	0		5.42	58.30	50	20	0.1	0.330	0.385	16.59	
Dibromomethane	1	0		5.49	53.14	50	20		0.078	0.076	6.28	
1,2-Dichloropropane	1	0		5.42	48.48	50	20	0.1	0.157	0.152	3.04	
Trichloroethene	1	0		5.29	49.71	50	20	0.2	0.258	0.257	0.59	
Benzene	1	0		4.93	49.98	50	20	0.5	0.744	0.744	0.04	
tert-Amyl methyl ether	1	0		4.97	43.00	50	20		0.006	0.004	14.00	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.93	54.24	50	20	0.5	0.033	0.030	8.48	
Methyl methacrylate	1	0		5.46	50.25	50	20	0.5	0.086	0.087	0.50	
Dibromochloromethane	1	0		6.44	48.47	50	20	0.1	0.212	0.205	3.07	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M553434.D **Instrument:** GCMS 8

Cont Calibration Date/Time 12/21/2021 11:04:00 Method: EPA 8260D

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.75	37.87	50	20		0.036	0.043	24.27	C1
cis-1,3-Dichloropropene	1	0		5.81	37.53	50	20	0.2	0.198	0.209	24.93	C1
trans-1,3-Dichloropropene	1	0		6.10	33.31	50	20	0.1	0.123	0.115	33.38	C1
Ethyl methacrylate	1	0		6.13	44.92	50	20	0.5	0.108	0.097	10.15	
1,1,2-Trichloroethane	1	0		6.21	52.32	50	20	0.1	0.149	0.156	4.64	
1,2-Dibromoethane	1	0		6.51	73.15	50	20	0.1	0.083	0.076	46.30	C1
1,3-Dichloropropane	1	0		6.31	51.73	50	20		0.225	0.233	3.47	
4-Methyl-2-Pentanone	1	0		5.88	45.27	50	20	0.1	0.066	0.060	9.47	
2-Hexanone	1	0		6.33	40.36	50	20	0.1	0.042	0.034	19.28	
Tetrachloroethene	1	0		6.31	50.67	50	20	0.2	0.266	0.270	1.35	
Toluene-d8	1	0	S	5.97	30.71	75	**		1.281	1.311	2.37	
Toluene	1	0		6.00	50.53	50	20	0.4	0.651	0.658	1.06	
1,1,1,2-Tetrachloroethane	1	0		6.81	47.21	50	20		0.254	0.240	5.58	
Chlorobenzene	1	0		6.77	51.23	50	20	0.5	0.709	0.726	2.46	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.02	54.12	50	20	0.5	0.362	0.391	8.25	
n-Amyl acetate	1	0		7.14	48.32	50	20	0.5	0.292	0.282	3.36	
Bromoform	1	0		7.22	47.61	50	20	0.1	0.245	0.233	4.79	
Ethylbenzene	1	0		6.82	53.10	50	20	0.1	0.695	0.738	6.21	
1,1,2,2-Tetrachloroethane	1	0		7.44	57.64	50	20	0.1	0.290	0.334	15.29	
Bromofluorobenzene	1	0	S	7.38	31.29	75	**		0.726	0.757	4.30	
Styrene	1	0		7.10	52.25	50	20	0.3	1.405	1.468	4.51	
m&p-Xylenes	1	0		6.88	111.85	100	20	0.1	0.893	0.999	11.85	
o-Xylene	1	0		7.10	52.73	50	20	0.3	0.908	0.957	5.47	
trans-1,4-Dichloro-2-butene	1	0		7.46	49.46	50	20		0.116	0.115	1.08	
1,3-Dichlorobenzene	1	0		7.99	55.54	50	20	0.6	1.013	1.125	11.08	
1,4-Dichlorobenzene	1	0		8.04	51.10	50	20	0.5	1.069	1.092	2.19	
1,2-Dichlorobenzene	1	0		8.25	54.23	50	20	0.4	0.874	0.948	8.46	
Isopropylbenzene	1	0		7.29	53.17	50	20	0.1	2.480	2.637	6.34	
Cyclohexanone	1	0		7.36	218.58	250	20		0.001	0.001	12.57	
Camphene	1	0		7.46	57.22	50	20		0.731	0.837	14.45	
1,2,3-Trichloropropane	1	0		7.47	51.79	50	20		0.319	0.331	3.58	
2-Chlorotoluene	1	0		7.58	53.41	50	20		1.472	1.573	6.82	
p-Ethyltoluene	1	0		7.57	58.63	50	20		2.363	2.771	17.26	
4-Chlorotoluene	1	0		7.64	52.48	50	20		1.388	1.457	4.96	
n-Propylbenzene	1	0		7.51	54.48	50	20		2.756	3.003	8.96	
Bromobenzene	1	0		7.48	52.72	50	20		1.008	1.063	5.45	
1,3,5-Trimethylbenzene	1	0		7.60	54.16	50	20		1.870	2.025	8.32	
Butyl methacrylate	1	0		7.60	52.61	50	20	0.5	0.321	0.337	5.22	
t-Butylbenzene	1	0		7.79	58.49	50	20		1.877	2.196	16.97	
1,2,4-Trimethylbenzene	1	0		7.81	57.40	50	20		1.770	2.032	14.79	
sec-Butylbenzene	1	0		7.91	61.65	50	20		2.276	2.807	23.31	C1
4-Isopropyltoluene	1	0		7.98	45.83	50	20		2.606	2.507	8.33	
n-Butylbenzene	1	0		8.20	60.47	50	20		2.112	2.554	20.94	C1
p-Diethylbenzene	1	0		8.19	61.33	50	20		1.177	1.444	22.66	C1
1,2,4,5-Tetramethylbenzene	1	0		8.63	63.45	50	20		1.473	1.869	26.89	C1
1,2-Dibromo-3-Chloropropane	1	0		8.69	48.77	50	20	0.05	0.057	0.060	2.47	
Camphor	1	0		9.11	836.26	500	20		0.009	0.014	67.25	C1
Hexachlorobutadiene	1	0		9.25	48.72	50	20		0.382	0.373	2.56	
1,2,4-Trichlorobenzene	1	0		9.17	52.21	50	20	0.2	0.538	0.562	4.42	
1,2,3-Trichlorobenzene	1	0		9.46	53.07	50	20		0.409	0.434	6.14	
Naphthalene	1	0		9.32	45.62	50	20		0.823	1.003	8.76	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553321.D Method: EPA 8260D

Analysis Date/Time: 12/18/21 01:07

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	366342	5.09	286093	6.76	155086	8.02								
Eval File Area Limit:	183171-732684		143046-572186		77543-310172									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample						
8M553317.D	CAL @ 5 PPB	368695	5.09	289764	6.76	155482	8.02
8M553318.D	CAL @ 2 PPB	399834	5.09	313518	6.76	164892	8.02
8M553319.D	CAL @ 1 PPB	393069	5.09	308552	6.76	162192	8.02
8M553320.D	CAL @ 0.5 PPB	350584	5.09	277054	6.76	145770	8.02
8M553321.D	CAL @ 20 PPB	366342	5.09	286093	6.76	155086	8.02
8M553322.D	CAL @ 50 PPB	368775	5.09	292857	6.76	155621	8.02
8M553323.D	CAL @100 PPB	355067	5.09	279175	6.76	146056	8.02
8M553324.D	CAL @ 250 PPB	383571	5.09	308057	6.76	144794	8.02
8M553325.D	CAL @ 500 PPB	437706	5.09	352709	6.76	182671	8.02
8M553330.D	ICV	358982	5.09	277421	6.76	143250	8.02
8M553334.D	STD	287808	5.09	220405	6.76	118782	8.02
8M553335.D	BLK	363094	5.09	273522	6.76	143301	8.02
8M553336.D	BLK	380753	5.09	278093	6.76	144873	8.02
8M553337.D	BLK	415113	5.09	308590	6.76	159126	8.02
8M553338.D	BLK	400219	5.09	300836	6.76	156058	8.02
8M553339.D	BLK	417446	5.09	319782	6.76	162071	8.02
8M553340.D	BLK	381913	5.09	281889	6.76	143138	8.02
8M553341.D	DAILY BLANK	410698	5.09	305948	6.76	153475	8.02
8M553342.D	AD27831-002	352634	5.09	273128	6.76	140581	8.02
8M553343.D	AD27831-004	338087	5.09	260171	6.76	134417	8.02
8M553344.D	AD27831-005	354231	5.09	273271	6.76	137851	8.02
8M553345.D	AD27831-006	356347	5.09	276090	6.76	138224	8.02
8M553346.D	AD27840-002	305396	5.09	235898	6.76	121638	8.02
8M553347.D	AD27697-002	295197	5.09	223659	6.76	116491	8.02
8M553348.D	MBS98260	415519	5.09	315036	6.76	161026	8.02
8M553349.D	MBS98261	349758	5.09	270050	6.76	140493	8.02
8M553350.D	BLK	375846	5.09	274626	6.76	139685	8.02
8M553351.D	BLK	384387	5.09	287545	6.76	144707	8.02
8M553352.D	BLK	368503	5.09	278622	6.76	140182	8.02
8M553353.D	BLK	383718	5.09	289834	6.76	145136	8.02
8M553354.D	BLK	50968 A	5.06	78474 A	6.75	64638 A	8.02
8M553355.D	BLK	65881 A	5.06	91682 A	6.75	80902	8.02

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553434.D Method: EPA 8260D

Analysis Date/Time: 12/21/21 11:04

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	394804	5.09	300122	6.76	151488	8.02								
Eval File Area Limit:	197402-789608		150061-600244		75744-302976									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample													
8M553433.D	50 PPB	416912	5.09	319558	6.76	161057	8.02							
8M553435.D	BLK	404754	5.09	302727	6.76	151599	8.02							
8M553436.D	BLK	434903	5.09	322258	6.76	157727	8.02							
8M553437.D	BLK	411503	5.09	288892	6.76	141497	8.02							
8M553438.D	BLK	381564	5.08	285237	6.76	143452	8.02							
8M553439.D	DAILY BLANK	406792	5.09	308485	6.76	149573	8.02							
8M553440.D	AD27953-002	371467	5.09	270416	6.76	125626	8.02							
8M553441.D	AD27953-001	157765A	5.09	86810A	6.76	30461A	8.03							
8M553442.D	AD27950-001	348278	5.09	266199	6.76	126027	8.02							
8M553443.D	AD27983-001	345686	5.09	246318	6.76	100771	8.02							
8M553444.D	AD27883-003	134541A	5.09	104077A	6.76	53654A	8.03							
8M553445.D	AD27911-002(MS)	340907	5.09	221723	6.76	81367	8.02							
8M553446.D	MBS98291	360433	5.09	279253	6.76	143582	8.02							
8M553447.D	MBS98292	378370	5.09	287480	6.76	143646	8.02							
8M553448.D	AD27911-002(MSD)	345387	5.09	206757	6.76	71626A	8.02							
8M553449.D	AD27911-002	339618	5.09	221197	6.76	82141	8.02							
8M553450.D	BLK	394927	5.09	282109	6.76	135356	8.02							
8M553451.D	BLK	408100	5.09	292995	6.76	145167	8.02							
8M553452.D	AD27952-003	387965	5.09	300492	6.76	147989	8.02							
8M553453.D	AD27952-001	392668	5.09	300131	6.76	148645	8.02							
8M553454.D	AD28000-001	374535	5.09	266012	6.76	109313	8.02							
8M553455.D	AD27963-001	459109	5.09	311914	6.76	112872	8.02							
8M553456.D	AD27963-002	418893	5.09	279823	6.76	106545	8.02							
8M553457.D	AD27963-003	426741	5.09	285302	6.76	107379	8.02							
8M553458.D	AD27961-003	388673	5.09	292326	6.76	143299	8.02							
8M553459.D	AD27961-002	365704	5.09	280918	6.76	135300	8.02							
8M553460.D	AD27961-001	347412	5.09	265493	6.76	124316	8.02							
8M553461.D	AD27990-006	343253	5.09	266297	6.76	134477	8.02							
8M553462.D	AD27993-001	380899	5.09	284532	6.76	135488	8.02							
8M553463.D	AD27993-002	337191	5.09	253445	6.76	120452	8.02							
8M553464.D	AD27981-004	335845	5.09	261234	6.76	129470	8.02							
8M553465.D	AD27992-012	380506	5.09	291947	6.76	141783	8.02							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1121702 0053

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553434.D Method: EPA 8260D

Analysis Date/Time: 12/21/21 11:04

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	394804	5.09	300122	6.76	151488	8.02								
Eval File Area Limit:	197402-789608		150061-600244		75744-302976									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									
Data File Sample														
8M553466.D AD27992-011	348890	5.09	267194	6.76	132850	8.02								
8M553467.D BLK	374846	5.09	277591	6.76	137274	8.02								

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27961-001
Client Id: SB-016 SS
Data File: 9M110415.D
Analysis Date: 12/27/21 18:12
Date Rec/Extracted: 12/17/21-12/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.041	U	50-32-8	Benzo[a]pyrene	0.041	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.041	U	205-99-2	Benzo[b]fluoranthene	0.041	U
122-66-7	1,2-Diphenylhydrazine	0.041	U	191-24-2	Benzo[g,h,i]perylene	0.041	U
123-91-1	1,4-Dioxane	0.020	U	207-08-9	Benzo[k]fluoranthene	0.041	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.041	U	100-51-6	Benzyl alcohol	0.041	U
95-95-4	2,4,5-Trichlorophenol	0.041	U	111-91-1	bis(2-Chloroethoxy)methan	0.041	U
88-06-2	2,4,6-Trichlorophenol	0.041	U	111-44-4	bis(2-Chloroethyl)ether	0.010	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.041	U
105-67-9	2,4-Dimethylphenol	0.020	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.041**	**0.57**
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.041	U
121-14-2	2,4-Dinitrotoluene	0.041	U	105-60-2	Caprolactam	0.041	U
606-20-2	2,6-Dinitrotoluene	0.041	U	86-74-8	Carbazole	0.041	U
91-58-7	2-Chloronaphthalene	0.041	U	218-01-9	Chrysene	0.041	U
95-57-8	2-Chlorophenol	0.041	U	53-70-3	Dibenzo[a,h]anthracene	0.041	U
91-57-6	2-Methylnaphthalene	0.041	U	132-64-9	Dibenzofuran	0.010	U
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.041	U
88-74-4	2-Nitroaniline	0.041	U	131-11-3	Dimethylphthalate	0.041	U
88-75-5	2-Nitrophenol	0.041	U	84-74-2	Di-n-butylphthalate	0.047	U
106-44-5	3&4-Methylphenol	0.012	U	117-84-0	Di-n-octylphthalate	0.041	U
91-94-1	3,3'-Dichlorobenzidine	0.041	U	206-44-0	Fluoranthene	0.041	U
99-09-2	3-Nitroaniline	0.041	U	86-73-7	Fluorene	0.041	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.041	U
101-55-3	4-Bromophenyl-phenylether	0.041	U	87-68-3	Hexachlorobutadiene	0.041	U
59-50-7	4-Chloro-3-methylphenol	0.041	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.041	U
7005-72-3	4-Chlorophenyl-phenylether	0.041	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.041	U
100-01-6	4-Nitroaniline	0.041	U	78-59-1	Isophorone	0.041	U
100-02-7	4-Nitrophenol	0.041	U	91-20-3	Naphthalene	0.012	U
83-32-9	Acenaphthene	0.041	U	98-95-3	Nitrobenzene	0.041	U
208-96-8	Acenaphthylene	0.041	U	62-75-9	N-Nitrosodimethylamine	0.050	U
98-86-2	Acetophenone	0.041	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	Anthracene	0.041	U	86-30-6	n-Nitrosodiphenylamine	0.14	U
1912-24-9	Atrazine	0.041	U	87-86-5	Pentachlorophenol	0.20	U
100-52-7	Benzaldehyde	0.44	U	85-01-8	Phenanthrene	0.041	U
92-87-5	Benzidine	0.072	U	108-95-2	Phenol	0.041	U
56-55-3	Benzo[a]anthracene	0.041	U	129-00-0	Pyrene	0.041	U

Worksheet #: 623533

Total Target Concentration 0.57

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

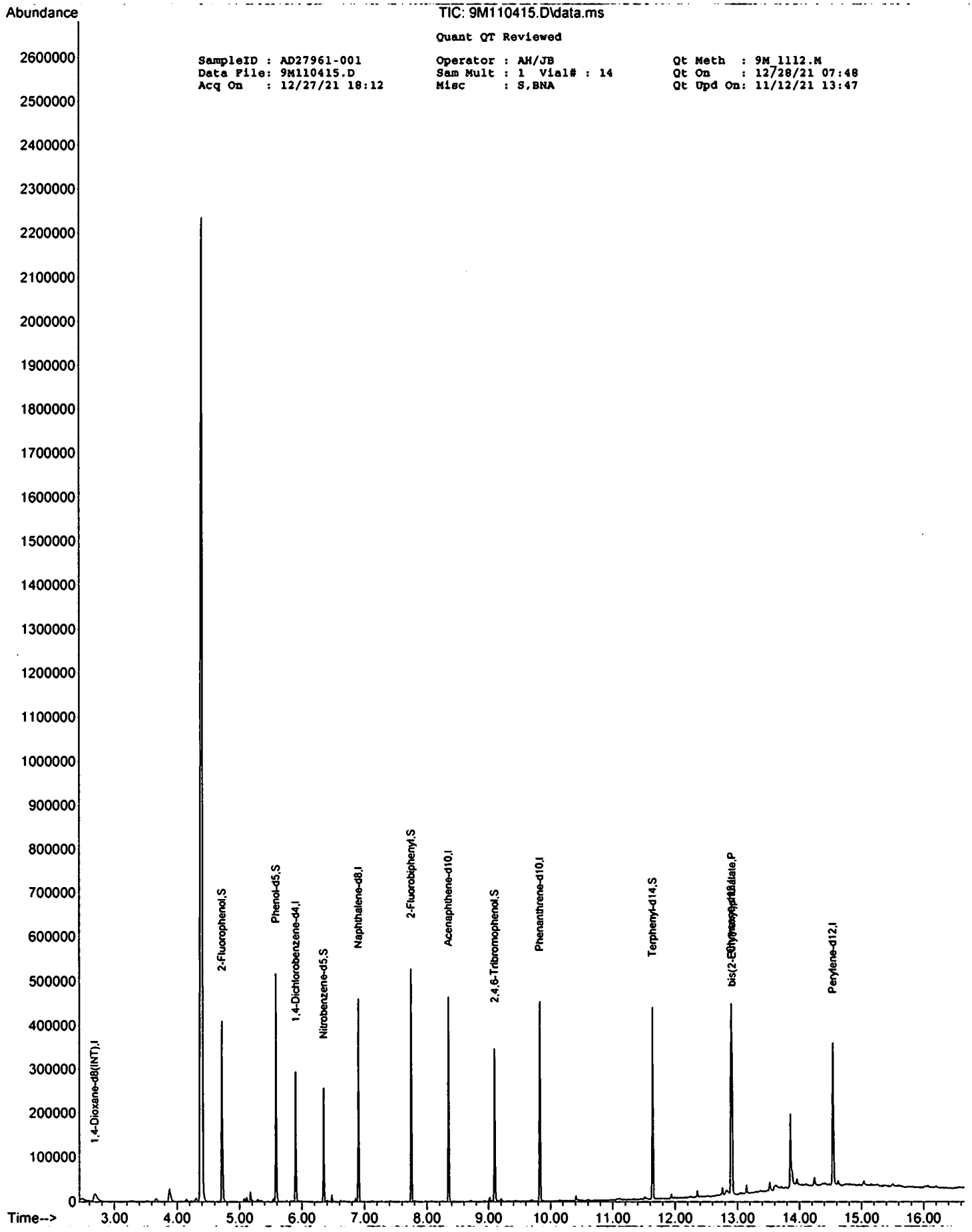
Quantitation Report (QT Reviewed)

SampleID : AD27961-001 Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110415.D Sam Mult : 1 Vial# : 14 Qt On : 12/28/21 07:48
Acq On : 12/27/21 18:12 Misc : S,BNA Qt Upd On: 11/12/21 13:47

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-27-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.684	96	22309	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.901	152	44601	40.00	ng	-0.03
31) Naphthalene-d8	6.907	136	179218	40.00	ng	-0.03
50) Acenaphthene-d10	8.348	164	87527	40.00	ng	-0.04
77) Phenanthrene-d10	9.830	188	162812	40.00	ng	-0.02
91) Chrysene-d12	12.901	240	136124	40.00	ng	-0.02
103) Perylene-d12	14.542	264	135772	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.719	112	124150	96.61	ng	-0.01
Spiked Amount 100.000			Recovery = 96.61%			
16) Phenol-d5	5.584	99	166230	100.98	ng	-0.02
Spiked Amount 100.000			Recovery = 100.98%			
32) Nitrobenzene-d5	6.348	128	30914	47.71	ng	-0.03
Spiked Amount 50.000			Recovery = 95.42%			
55) 2-Fluorobiphenyl	7.748	172	143655	44.22	ng	-0.04
Spiked Amount 50.000			Recovery = 88.44%			
80) 2,4,6-Tribromophenol	9.101	330	41096	95.96	ng	-0.02
Spiked Amount 100.000			Recovery = 95.96%			
94) Terphenyl-d14	11.642	244	121551	53.45	ng	-0.02
Spiked Amount 50.000			Recovery = 106.90%			
Target Compounds						Qvalue
102) bis(2-Ethylhexyl)phtha...	12.913	149	79552	28.1615	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110415.D\data.ms
Quant QT Reviewed
SampleID : AD27961-001
Data File: 9M110415.D
Acq On : 12/27/21 18:12
Operator : AH/JB
Sam Mult : 1 Vial# : 14
Misc : S,BNA
Qt Meth : 9M_1112.M
Qt On : 12/28/21 07:48
Qt Upd On: 11/12/21 13:47
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27961-002
Client Id: SB-017 SS
Data File: 9M110416.D
Analysis Date: 12/27/21 18:35
Date Rec/Extracted: 12/17/21-12/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 81

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.041	U	**50-32-8**	**Benzo[a]pyrene**	**0.041**	**0.20**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.041	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.041**	**0.32**
122-66-7	1,2-Diphenylhydrazine	0.041	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.041**	**0.13**
123-91-1	1,4-Dioxane	0.021	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.041**	**0.095**
58-90-2	2,3,4,6-Tetrachlorophenol	0.041	U	100-51-6	Benzyl alcohol	0.041	U
95-95-4	2,4,5-Trichlorophenol	0.041	U	111-91-1	bis(2-Chloroethoxy)methan	0.041	U
88-06-2	2,4,6-Trichlorophenol	0.041	U	111-44-4	bis(2-Chloroethyl)ether	0.010	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.041	U
105-67-9	2,4-Dimethylphenol	0.020	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.041**	**0.75**
51-28-5	2,4-Dinitrophenol	0.21	U	85-68-7	Butylbenzylphthalate	0.041	U
121-14-2	2,4-Dinitrotoluene	0.041	U	105-60-2	Caprolactam	0.041	U
606-20-2	2,6-Dinitrotoluene	0.041	U	86-74-8	Carbazole	0.041	U
91-58-7	2-Chloronaphthalene	0.041	U	**218-01-9**	**Chrysene**	**0.041**	**0.24**
95-57-8	2-Chlorophenol	0.041	U	53-70-3	Dibenzo[a,h]anthracene	0.041	U
91-57-6	2-Methylnaphthalene	0.041	U	132-64-9	Dibenzofuran	0.010	U
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.041	U
88-74-4	2-Nitroaniline	0.041	U	131-11-3	Dimethylphthalate	0.041	U
88-75-5	2-Nitrophenol	0.041	U	84-74-2	Di-n-butylphthalate	0.047	U
106-44-5	3&4-Methylphenol	0.012	U	117-84-0	Di-n-octylphthalate	0.041	U
91-94-1	3,3'-Dichlorobenzidine	0.041	U	**206-44-0**	**Fluoranthene**	**0.041**	**0.45**
99-09-2	3-Nitroaniline	0.041	U	86-73-7	Fluorene	0.041	U
534-52-1	4,6-Dinitro-2-methylphenol	0.21	U	118-74-1	Hexachlorobenzene	0.041	U
101-55-3	4-Bromophenyl-phenylether	0.041	U	87-68-3	Hexachlorobutadiene	0.041	U
59-50-7	4-Chloro-3-methylphenol	0.041	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.018	U	67-72-1	Hexachloroethane	0.041	U
7005-72-3	4-Chlorophenyl-phenylether	0.041	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.041**	**0.11**
100-01-6	4-Nitroaniline	0.041	U	78-59-1	Isophorone	0.041	U
100-02-7	4-Nitrophenol	0.041	U	91-20-3	Naphthalene	0.012	U
83-32-9	Acenaphthene	0.041	U	98-95-3	Nitrobenzene	0.041	U
208-96-8	Acenaphthylene	0.041	U	62-75-9	N-Nitrosodimethylamine	0.051	U
98-86-2	Acetophenone	0.041	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	**Anthracene**	**0.041**	**0.053**	86-30-6	n-Nitrosodiphenylamine	0.14	U
1912-24-9	Atrazine	0.041	U	87-86-5	Pentachlorophenol	0.21	U
100-52-7	Benzaldehyde	0.45	U	**85-01-8**	**Phenanthrene**	**0.041**	**0.25**
92-87-5	Benzidine	0.072	U	108-95-2	Phenol	0.041	U
56-55-3	**Benzo[a]anthracene**	**0.041**	**0.25**	**129-00-0**	**Pyrene**	**0.041**	**0.44**

Worksheet #: 623533

Total Target Concentration 3.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

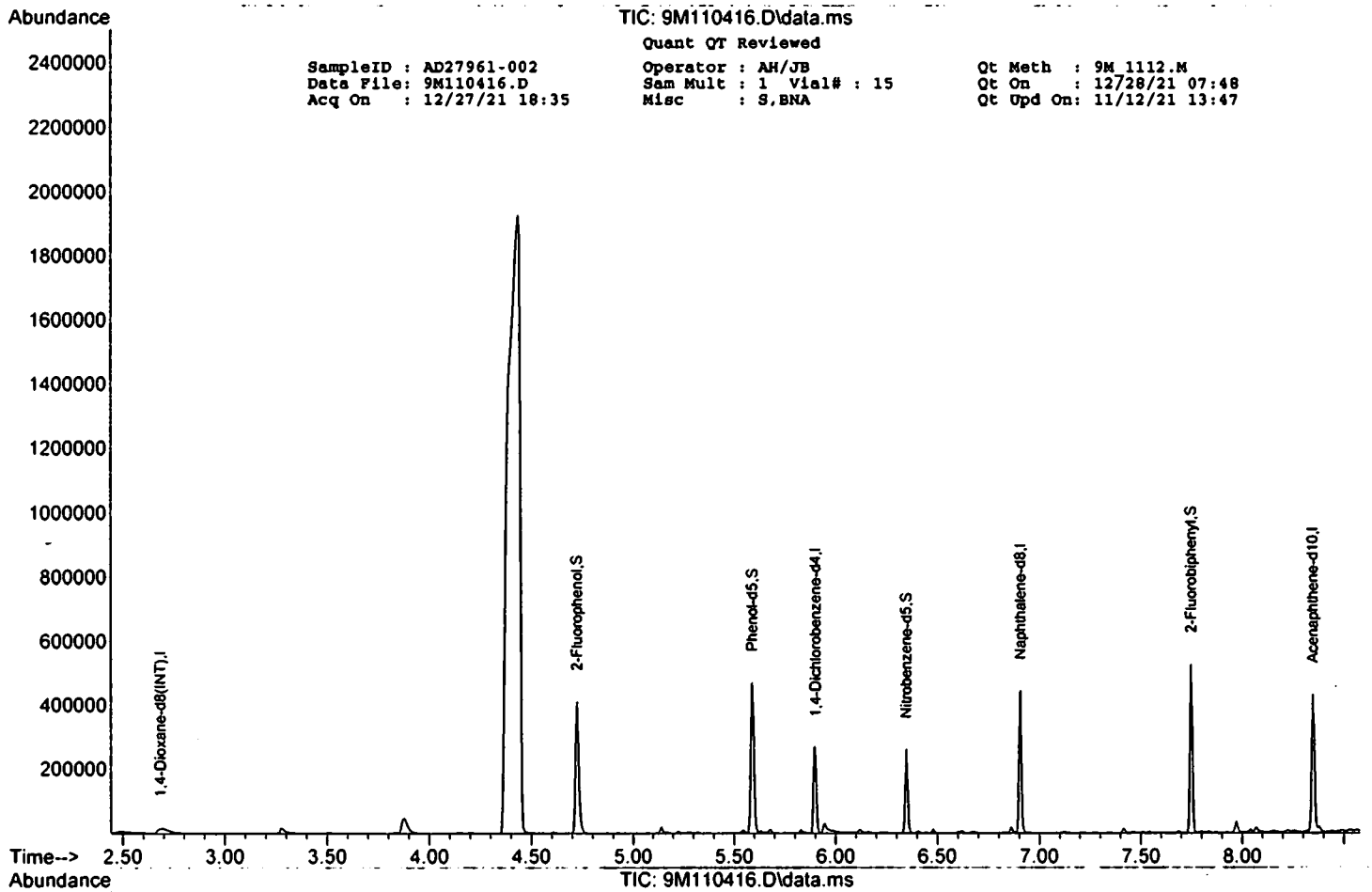
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

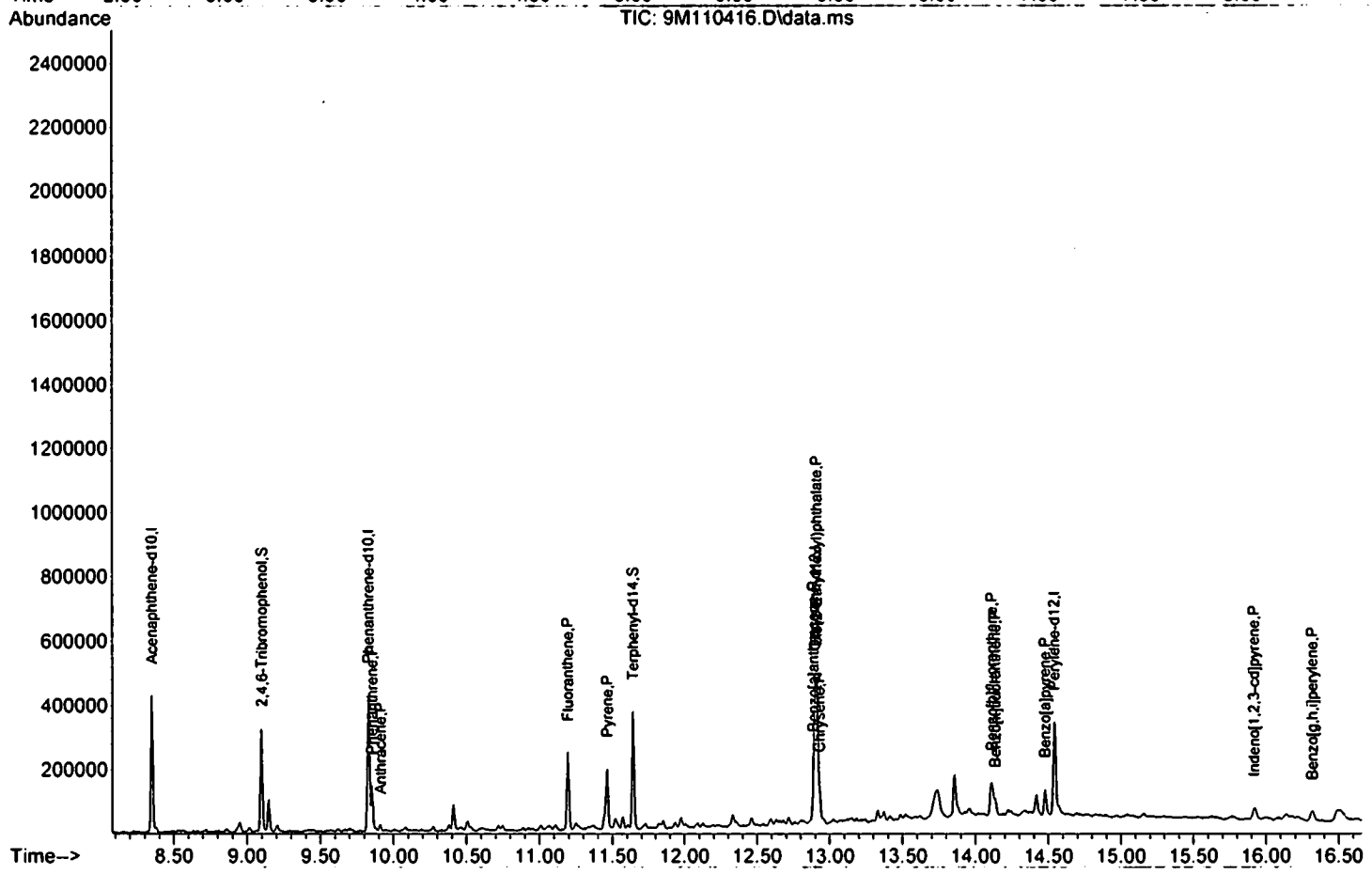
SampleID : AD27961-002 Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110416.D Sam Mult : 1 Vial# : 15 Qt On : 12/28/21 07:48
Acq On : 12/27/21 18:35 Misc : S,BNA Qt Upd On: 11/12/21 13:47

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-27-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.684	96	21319	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.901	152	42864	40.00	ng	-0.03
31) Naphthalene-d8	6.907	136	173326	40.00	ng	-0.03
50) Acenaphthene-d10	8.348	164	83031	40.00	ng	-0.04
77) Phenanthrene-d10	9.831	188	149446	40.00	ng	-0.02
91) Chrysene-d12	12.901	240	121551	40.00	ng	-0.02
103) Perylene-d12	14.542	264	125552	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.725	112	127250	103.62	ng	0.00
Spiked Amount 100.000			Recovery = 103.62%			
16) Phenol-d5	5.590	99	172766	109.82	ng	-0.01
Spiked Amount 100.000			Recovery = 109.82%			
32) Nitrobenzene-d5	6.348	128	30930	49.20	ng	-0.03
Spiked Amount 50.000			Recovery = 98.40%			
55) 2-Fluorobiphenyl	7.748	172	139559	45.29	ng	-0.04
Spiked Amount 50.000			Recovery = 90.58%			
80) 2,4,6-Tribromophenol	9.101	330	36369	92.77	ng	-0.02
Spiked Amount 100.000			Recovery = 92.77%			
94) Terphenyl-d14	11.642	244	98932	48.72	ng	-0.02
Spiked Amount 50.000			Recovery = 97.44%			
Target Compounds						Qvalue
86) Phenanthrene	9.854	178	49435	11.9371	ng	99
87) Anthracene	9.913	178	10822	2.5804	ng	96
90) Fluoranthene	11.195	202	94908	21.7671	ng	95
92) Pyrene	11.466	202	83265	21.2706	ng	91
100) Benzo[a]anthracene	12.889	228	45510	11.9072	ng	97
101) Chrysene	12.930	228	44121	11.8229	ng	99
102) bis(2-Ethylhexyl)phtha...	12.913	149	91665	36.3379	ng	95
105) Benzo[b]fluoranthene	14.113	252	56452m	15.6458	ng	
106) Benzo[k]fluoranthene	14.136	252	16407m	4.6326	ng	
107) Benzo[a]pyrene	14.477	252	33828	9.9172	ng	94
108) Indeno[1,2,3-cd]pyrene	15.918	276	20602	5.2874	ng	81
110) Benzo[g,h,i]perylene	16.318	276	20700	6.4051	ng	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110416.D\data.ms
Quant QT Reviewed
SampleID : AD27961-002
Data File: 9M110416.D
Acq On : 12/27/21 18:35
Operator : AH/JB
Sam Mult : 1 Vial# : 15
Misc : S,BNA
Qt Meth : 9M_1112.M
Qt On : 12/28/21 07:48
Qt Upd On: 11/12/21 13:47
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
Time-->


Abundance
TIC: 9M110416.D\data.ms
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Fluoranthene.P
Pyrene.P
Terphenyl-d14.S
Benzo[a]pyrene.P
Perylene-d12.I
Indeno[1,2,3-cd]pyrene.P
Benzo[g,h,i]perylene.P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD27961-003
Client Id: SB-018 SS
Data File: 9M110412.D
Analysis Date: 12/27/21 17:03
Date Rec/Extracted: 12/17/21-12/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.036	U	50-32-8	Benzo[a]pyrene	0.036	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	U	205-99-2	Benzo[b]fluoranthene	0.036	U
122-66-7	1,2-Diphenylhydrazine	0.036	U	191-24-2	Benzo[g,h,i]perylene	0.036	U
123-91-1	1,4-Dioxane	0.018	U	207-08-9	Benzo[k]fluoranthene	0.036	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.036	U	100-51-6	Benzyl alcohol	0.036	U
95-95-4	2,4,5-Trichlorophenol	0.036	U	111-91-1	bis(2-Chloroethoxy)methan	0.036	U
88-06-2	2,4,6-Trichlorophenol	0.036	U	111-44-4	bis(2-Chloroethyl)ether	0.0090	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.036	U
105-67-9	2,4-Dimethylphenol	0.017	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.036**	**1.4**
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.036	U
121-14-2	2,4-Dinitrotoluene	0.036	U	105-60-2	Caprolactam	0.036	U
606-20-2	2,6-Dinitrotoluene	0.036	U	86-74-8	Carbazole	0.036	U
91-58-7	2-Chloronaphthalene	0.036	U	218-01-9	Chrysene	0.036	U
95-57-8	2-Chlorophenol	0.036	U	53-70-3	Dibenzo[a,h]anthracene	0.036	U
91-57-6	2-Methylnaphthalene	0.036	U	132-64-9	Dibenzofuran	0.0091	U
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.036	U
88-74-4	2-Nitroaniline	0.036	U	131-11-3	Dimethylphthalate	0.036	U
88-75-5	2-Nitrophenol	0.036	U	84-74-2	Di-n-butylphthalate	0.041	U
106-44-5	3&4-Methylphenol	0.010	U	117-84-0	Di-n-octylphthalate	0.036	U
91-94-1	3,3'-Dichlorobenzidine	0.036	U	**206-44-0**	**Fluoranthene**	**0.036**	**0.039**
99-09-2	3-Nitroaniline	0.036	U	86-73-7	Fluorene	0.036	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.036	U
101-55-3	4-Bromophenyl-phenylether	0.036	U	87-68-3	Hexachlorobutadiene	0.036	U
59-50-7	4-Chloro-3-methylphenol	0.036	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.036	U
7005-72-3	4-Chlorophenyl-phenylether	0.036	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U
100-01-6	4-Nitroaniline	0.036	U	78-59-1	Isophorone	0.036	U
100-02-7	4-Nitrophenol	0.036	U	91-20-3	Naphthalene	0.010	U
83-32-9	Acenaphthene	0.036	U	98-95-3	Nitrobenzene	0.036	U
208-96-8	Acenaphthylene	0.036	U	62-75-9	N-Nitrosodimethylamine	0.044	U
98-86-2	Acetophenone	0.036	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.036	U	86-30-6	n-Nitrosodiphenylamine	0.12	U
1912-24-9	Atrazine	0.036	U	87-86-5	Pentachlorophenol	0.18	U
100-52-7	Benzaldehyde	0.39	U	85-01-8	Phenanthrene	0.036	U
92-87-5	Benzidine	0.063	U	108-95-2	Phenol	0.036	U
56-55-3	Benzo[a]anthracene	0.036	U	**129-00-0**	**Pyrene**	**0.036**	**0.044**

Worksheet #: 623533

Total Target Concentration 1.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

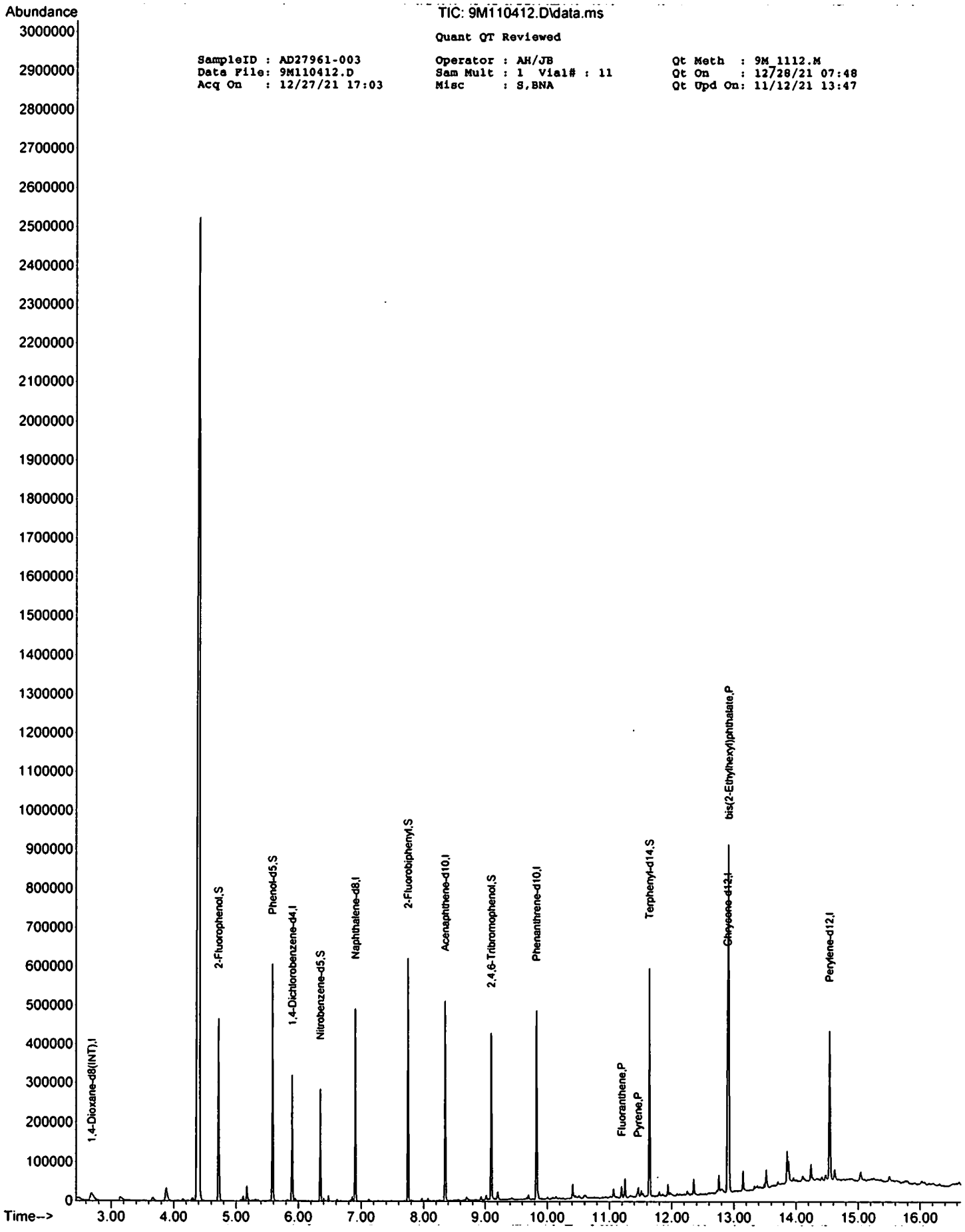
Quantitation Report (QT Reviewed)

SampleID : AD27961-003 Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110412.D Sam Mult : 1 Vial# : 11 Qt On : 12/28/21 07:48
Acq On : 12/27/21 17:03 Misc : S,BNA Qt Upd On: 11/12/21 13:47

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-27-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.690	96	25781	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.901	152	48454	40.00	ng	-0.03
31) Naphthalene-d8	6.907	136	195503	40.00	ng	-0.03
50) Acenaphthene-d10	8.348	164	95056	40.00	ng	-0.04
77) Phenanthrene-d10	9.831	188	178713	40.00	ng	-0.02
91) Chrysene-d12	12.901	240	148038	40.00	ng	-0.02
103) Perylene-d12	14.542	264	153352	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.719	112	139997	94.27	ng	-0.01
Spiked Amount 100.000			Recovery = 94.27%			
16) Phenol-d5	5.584	99	192673	101.28	ng	-0.02
Spiked Amount 100.000			Recovery = 101.28%			
32) Nitrobenzene-d5	6.348	128	34690	48.95	ng	-0.03
Spiked Amount 50.000			Recovery = 97.90%			
55) 2-Fluorobiphenyl	7.748	172	169416	48.02	ng	-0.04
Spiked Amount 50.000			Recovery = 96.04%			
80) 2,4,6-Tribromophenol	9.101	330	50572	106.65	ng	-0.02
Spiked Amount 100.000			Recovery = 106.65%			
94) Terphenyl-d14	11.642	244	160060	64.72	ng	-0.02
Spiked Amount 50.000			Recovery = 129.44%			
Target Compounds						Qvalue
90) Fluoranthene	11.195	202	11289	2.1651	ng	97
92) Pyrene	11.460	202	11729	2.4602	ng	97
102) bis(2-Ethylhexyl)phtha...	12.919	149	243403	79.2023	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed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TIC: 9M110412.D\data.ms
Quant QT Reviewed
SampleID : AD27961-003
Data File: 9M110412.D
Acq On : 12/27/21 17:03
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : S,BNA
Qt Meth : 9M_1112.M
Qt On : 12/28/21 07:48
Qt Upd On: 11/12/21 13:47
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Fluoranthene.P
Pyrene.P
Terphenyl-d14.S
Chrysene-d12.I
bis(2-Ethylhexyl)phthalate.P
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB96003
Client Id:
Data File: 9M110405.D
Analysis Date: 12/27/21 14:15
Date Rec/Extracted: NA-12/27/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 623533

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

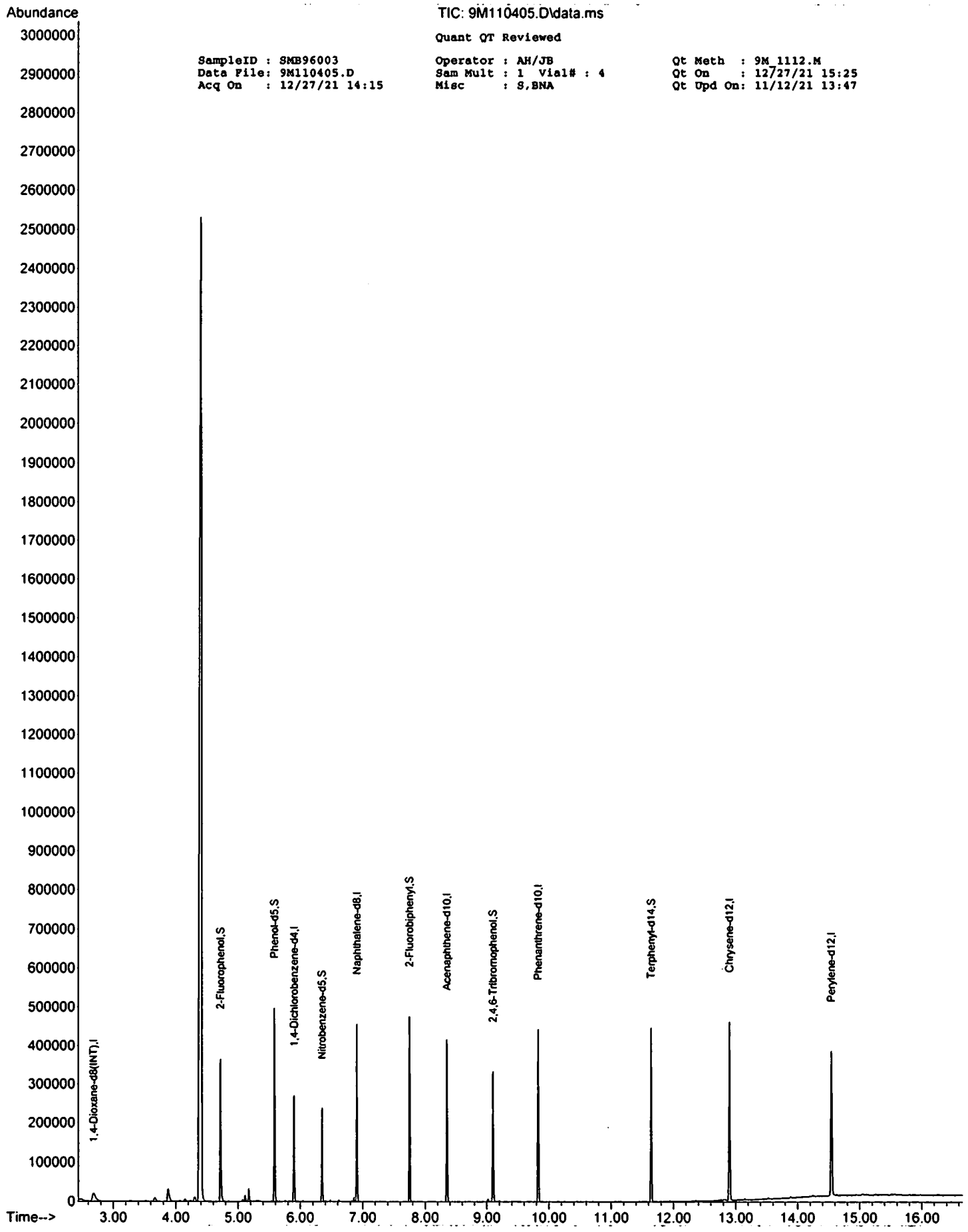
Quantitation Report (QT Reviewed)

SampleID : SMB96003 Operator : AH/JB Qt Meth : 9M_1112.M
Data File: 9M110405.D Sam Mult : 1 Vial# : 4 Qt On : 12/27/21 15:25
Acq On : 12/27/21 14:15 Misc : S,BNA Qt Upd On: 11/12/21 13:47

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-27-21\
Qt Path : G:\GCMSDATA\2021\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.684	96	24398	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.901	152	42024	40.00	ng	-0.03
31) Naphthalene-d8	6.907	136	173858	40.00	ng	-0.03
50) Acenaphthene-d10	8.348	164	84278	40.00	ng	-0.04
77) Phenanthrene-d10	9.831	188	158509	40.00	ng	-0.02
91) Chrysene-d12	12.901	240	151176	40.00	ng	-0.02
103) Perylene-d12	14.542	264	165446	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.719	112	115562	82.23	ng	-0.01
Spiked Amount 100.000			Recovery = 82.23%			
16) Phenol-d5	5.584	99	156204	86.76	ng	-0.02
Spiked Amount 100.000			Recovery = 86.76%			
32) Nitrobenzene-d5	6.348	128	29443	46.91	ng	-0.03
Spiked Amount 50.000			Recovery = 93.82%			
55) 2-Fluorobiphenyl	7.748	172	136497	43.64	ng	-0.04
Spiked Amount 50.000			Recovery = 87.28%			
80) 2,4,6-Tribromophenol	9.101	330	39563	94.97	ng	-0.02
Spiked Amount 100.000			Recovery = 94.97%			
94) Terphenyl-d14	11.642	244	128820	51.01	ng	-0.02
Spiked Amount 50.000			Recovery = 102.02%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110405.D\data.ms
Quant QT Reviewed
SampleID : SMB96003
Data File: 9M110405.D
Acq On : 12/27/21 14:15
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : S,BNA
Qt Meth : 9M_1112.M
Qt On : 12/27/21 15:25
Qt Upd On: 11/12/21 13:47
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M110405.D	SMB96003	S	12/27/21 14:15	1		82	87	94	87	95	102
9M110415.D	AD27961-001	S	12/27/21 18:12	1		97	101	95	88	96	107
9M110416.D	AD27961-002	S	12/27/21 18:35	1		104	110	98	91	93	97
9M110412.D	AD27961-003	S	12/27/21 17:03	1		94	101	98	96	107	129
7M118721.D	SMB96003(MS)	S	12/27/21 14:20	1		84	87	101	99	125	116
9M110413.D	AD27961-003(MS)	S	12/27/21 17:26	1		101	106	105	99	110	120
9M110414.D	AD27961-003(MSD)	S	12/27/21 17:49	1		99	107	103	102	114	127

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96003

Data File	Sample ID:	Analysis Date
Spike or Dup: 7M118721.D	SMB96003(MS)	12/27/2021 2:20:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	25.1484	0	50	50	25	150
Pyridine	1	37.49	0	50	75	1	150
N-Nitrosodimethylamine	1	39.748	0	50	79	50	130
Benzaldehyde	1	34.4589	0	50	69	20	220
Aniline	1	23.5202	0	50	47	20	150
Pentachloroethane	1	40.4129	0	50	81	50	130
bis(2-Chloroethyl)ether	1	39.8578	0	50	80	50	130
Phenol	1	76.7521	0	100	77	20	150
2-Chlorophenol	1	81.2512	0	100	81	50	130
N-Decane	1	38.4342	0	50	77	20	130
1,3-Dichlorobenzene	1	38.3059	0	50	77	60	130
1,4-Dichlorobenzene	1	43.9831	0	50	88	60	130
1,2-Dichlorobenzene	1	43.2077	0	50	86	50	130
Benzyl alcohol	1	45.1549	0	50	90	20	130
bis(2-chloroisopropyl)ether	1	44.2363	0	50	88	40	130
2-Methylphenol	1	90.9256	0	100	91	50	130
Acetophenone	1	43.4976	0	50	87	50	130
Hexachloroethane	1	42.4826	0	50	85	50	130
N-Nitroso-di-n-propylamine	1	39.8162	0	50	80	40	130
3&4-Methylphenol	1	94.3259	0	100	94	70	130
Nitrobenzene	1	44.9659	0	50	90	70	130
Isophorone	1	41.0994	0	50	82	60	130
2-Nitrophenol	1	97.391	0	100	97	70	130
2,4-Dimethylphenol	1	84.5718	0	100	85	40	130
Benzoic Acid	1	98.7483	0	100	99	20	130
bis(2-Chloroethoxy)methane	1	46.4412	0	50	93	60	130
2,4-Dichlorophenol	1	97.6454	0	100	98	70	130
1,2,4-Trichlorobenzene	1	45.2834	0	50	91	50	130
Naphthalene	1	44.7544	0	50	90	50	130
4-Chloroaniline	1	22.3792	0	50	45	10	150
Hexachlorobutadiene	1	41.2744	0	50	83	60	130
Caprolactam	1	49.2881	0	50	99	50	130
4-Chloro-3-methylphenol	1	101.5487	0	100	102	50	130
2-Methylnaphthalene	1	48.3036	0	50	97	70	130
1-Methylnaphthalene	1	46.5807	0	50	93	70	130
1,1'-Biphenyl	1	46.6317	0	50	93	60	130
1,2,4,5-Tetrachlorobenzene	1	45.0885	0	50	90	70	130
Hexachlorocyclopentadiene	1	37.0591	0	50	74	20	160
2,4,6-Trichlorophenol	1	114.215	0	100	114	70	130
2,4,5-Trichlorophenol	1	105.2842	0	100	105	70	130
2-Chloronaphthalene	1	47.003	0	50	94	70	130
1,4-Dimethylnaphthalene	1	48.604	0	50	97	70	130
Diphenyl Ether	1	46.7677	0	50	94	70	130
2-Nitroaniline	1	50.0983	0	50	100	50	130
Coumarin	1	53.6271	0	50	107	70	130
Acenaphthylene	1	44.7739	0	50	90	70	130
Dimethylphthalate	1	47.1189	0	50	94	70	130
2,6-Dinitrotoluene	1	51.11	0	50	102	70	130
Acenaphthene	1	46.7079	0	50	93	50	130
3-Nitroaniline	1	33.2074	0	50	66	10	130
2,4-Dinitrophenol	1	107.8765	0	100	108	20	150
Dibenzofuran	1	48.474	0	50	97	70	130
2,4-Dinitrotoluene	1	49.2531	0	50	99	40	130
4-Nitrophenol	1	98.9726	0	100	99	20	150
2,3,4,6-Tetrachlorophenol	1	102.1321	0	100	102	70	130
Fluorene	1	48.3922	0	50	97	50	130
4-Chlorophenyl-phenylether	1	49.2757	0	50	99	70	130
Diethylphthalate	1	46.9373	0	50	94	70	130
4-Nitroaniline	1	50.3393	0	50	101	50	130
Atrazine	1	50.008	0	50	100	50	130
4,6-Dinitro-2-methylphenol	1	118.1944	0	100	118	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96003

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	42.3551	0	50	85	50	130
1,2-Diphenylhydrazine	1	45.7155	0	50	91	70	130
4-Bromophenyl-phenylether	1	51.9974	0	50	104	70	130
Hexachlorobenzene	1	49.2868	0	50	99	70	130
N-Octadecane	1	54.1592	0	50	108	70	130
Pentachlorophenol	1	118.329	0	100	118	40	130
Phenanthrene	1	49.5512	0	50	99	70	130
Anthracene	1	49.2803	0	50	99	70	130
Carbazole	1	51.7939	0	50	104	70	130
Di-n-butylphthalate	1	52.2471	0	50	104	70	130
Fluoranthene	1	51.7368	0	50	103	70	130
Pyrene	1	48.3734	0	50	97	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	51.7146	0	50	103	50	130
3,3'-Dichlorobenzidine	1	25.1374	0	50	50	10	130
Benzo[a]anthracene	1	44.8253	0	50	90	70	130
Chrysene	1	51.6604	0	50	103	60	130
bis(2-Ethylhexyl)phthalate	1	52.6881	0	50	105	70	130
Di-n-octylphthalate	1	53.9572	0	50	108	70	130
Benzo[b]fluoranthene	1	48.1415	0	50	96	70	130
Benzo[k]fluoranthene	1	49.6896	0	50	99	70	130
Benzo[a]pyrene	1	46.6118	0	50	93	70	130
Indeno[1,2,3-cd]pyrene	1	54.1246	0	50	108	70	130
Dibenzo[a,h]anthracene	1	52.1376	0	50	104	60	130
Benzo[g,h,i]perylene	1	49.928	0	50	100	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96003

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110413.D	AD27961-003(MS)	12/27/2021 5:26:00 PM
Non Spike(If applicable):	9M110412.D	AD27961-003	12/27/2021 5:03:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.6593	0	50	37	25	150
Pyridine	1	38.8041	0	50	78	1	150
N-Nitrosodimethylamine	1	40.4325	0	50	81	50	130
Benzaldehyde	1	40.9059	0	50	82	20	220
Aniline	1	32.7136	0	50	65	20	150
Pentachloroethane	1	38.0655	0	50	76	50	130
bis(2-Chloroethyl)ether	1	38.5053	0	50	77	50	130
Phenol	1	89.0655	0	100	89	20	150
2-Chlorophenol	1	90.0443	0	100	90	50	130
N-Decane	1	35.9575	0	50	72	20	130
1,3-Dichlorobenzene	1	37.2241	0	50	74	60	130
1,4-Dichlorobenzene	1	36.6963	0	50	73	60	130
1,2-Dichlorobenzene	1	36.4555	0	50	73	50	130
Benzyl alcohol	1	42.34	0	50	85	20	130
bis(2-chloroisopropyl)ether	1	40.1233	0	50	80	40	130
2-Methylphenol	1	84.2434	0	100	84	50	130
Acetophenone	1	40.5185	0	50	81	50	130
Hexachloroethane	1	36.9045	0	50	74	50	130
N-Nitroso-di-n-propylamine	1	39.034	0	50	78	40	130
3&4-Methylphenol	1	87.0813	0	100	87	70	130
Nitrobenzene	1	46.9296	0	50	94	70	130
Isophorone	1	40.5688	0	50	81	60	130
2-Nitrophenol	1	97.4602	0	100	97	70	130
2,4-Dimethylphenol	1	87.716	0	100	88	40	130
Benzoic Acid	1	57.8382	0	100	58	20	130
bis(2-Chloroethoxy)methane	1	41.5947	0	50	83	60	130
2,4-Dichlorophenol	1	86.3983	0	100	86	70	130
1,2,4-Trichlorobenzene	1	39.0434	0	50	78	50	130
Naphthalene	1	38.0299	0	50	76	50	130
4-Chloroaniline	1	32.6316	0	50	65	10	150
Hexachlorobutadiene	1	37.2652	0	50	75	60	130
Caprolactam	1	46.0719	0	50	92	50	130
4-Chloro-3-methylphenol	1	98.8697	0	100	99	50	130
2-Methylnaphthalene	1	40.3322	0	50	81	70	130
1-Methylnaphthalene	1	39.9968	0	50	80	70	130
1,1'-Biphenyl	1	40.063	0	50	80	60	130
1,2,4,5-Tetrachlorobenzene	1	37.2607	0	50	75	70	130
Hexachlorocyclopentadiene	1	9.7875	0	50	20	20	160
2,4,6-Trichlorophenol	1	88.19	0	100	88	70	130
2,4,5-Trichlorophenol	1	89.7938	0	100	90	70	130
2-Chloronaphthalene	1	40.1321	0	50	80	70	130
1,4-Dimethylnaphthalene	1	38.9381	0	50	78	70	130
Diphenyl Ether	1	39.3687	0	50	79	70	130
2-Nitroaniline	1	51.2849	0	50	103	50	130
Coumarin	1	40.0491	0	50	80	70	130
Acenaphthylene	1	39.3235	0	50	79	70	130
Dimethylphthalate	1	41.9563	0	50	84	70	130
2,6-Dinitrotoluene	1	41.1489	0	50	82	70	130
Acenaphthene	1	40.0194	0	50	80	50	130
3-Nitroaniline	1	42.5526	0	50	85	70	130
2,4-Dinitrophenol	1	93.9637	0	100	94	20	150
Dibenzofuran	1	40.265	0	50	81	70	130
2,4-Dinitrotoluene	1	46.8632	0	50	94	40	130
4-Nitrophenol	1	102.8637	0	100	103	20	150
2,3,4,6-Tetrachlorophenol	1	85.6747	0	100	86	70	130
Fluorene	1	40.0406	0	50	80	50	130
4-Chlorophenyl-phenylether	1	41.034	0	50	82	70	130
Diethylphthalate	1	42.2466	0	50	84	70	130
4-Nitroaniline	1	42.2713	0	50	85	50	130
Atrazine	1	43.5674	0	50	87	50	130
4,6-Dinitro-2-methylphenol	1	109.6909	0	100	110	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96003

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.6131	0	50	71	50	130
1,2-Diphenylhydrazine	1	47.0766	0	50	94	70	130
4-Bromophenyl-phenylether	1	43.1619	0	50	86	70	130
Hexachlorobenzene	1	39.557	0	50	79	70	130
N-Octadecane	1	52.0639	0	50	104	70	130
Pentachlorophenol	1	94.4709	0	100	94	40	130
Phenanthrene	1	42.7942	0	50	86	70	130
Anthracene	1	40.7985	0	50	82	70	130
Carbazole	1	42.3705	0	50	85	70	130
Di-n-butylphthalate	1	47.0506	0	50	94	70	130
Fluoranthene	1	45.1169	2.1651	50	86	70	130
Pyrene	1	46.6652	2.4602	50	88	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	50.5742	0	50	101	50	130
3,3'-Dichlorobenzidine	1	36.8493	0	50	74	10	130
Benzo[a]anthracene	1	39.5242	0	50	79	70	130
Chrysene	1	44.0001	0	50	88	60	130
bis(2-Ethylhexyl)phthalate	1	132.6882	79.2023	50	107	70	130
Di-n-octylphthalate	1	51.9665	0	50	104	70	130
Benzo[b]fluoranthene	1	48.7203	0	50	97	70	130
Benzo[k]fluoranthene	1	44.7132	0	50	89	70	130
Benzo[a]pyrene	1	41.6888	0	50	83	70	130
Indeno[1,2,3-cd]pyrene	1	42.061	0	50	84	70	130
Dibenzo[a,h]anthracene	1	40.7055	0	50	81	60	130
Benzo[g,h,i]perylene	1	41.1459	0	50	82	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96003

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110414.D	AD27961-003(MSD)	12/27/2021 5:49:00 PM
Non Spike(If applicable):	9M110412.D	AD27961-003	12/27/2021 5:03:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.4035	0	50	37	25	150
Pyridine	1	37.5368	0	50	75	1	150
N-Nitrosodimethylamine	1	39.3448	0	50	79	50	130
Benzaldehyde	1	41.2113	0	50	82	20	220
Aniline	1	30.5185	0	50	61	20	150
Pentachloroethane	1	38.0614	0	50	76	50	130
bis(2-Chloroethyl)ether	1	38.7618	0	50	78	50	130
Phenol	1	89.9416	0	100	90	20	150
2-Chlorophenol	1	88.4854	0	100	88	50	130
N-Decane	1	36.4002	0	50	73	20	130
1,3-Dichlorobenzene	1	36.2405	0	50	72	60	130
1,4-Dichlorobenzene	1	35.2404	0	50	70	60	130
1,2-Dichlorobenzene	1	35.0195	0	50	70	50	130
Benzyl alcohol	1	41.7087	0	50	83	20	130
bis(2-chloroisopropyl)ether	1	38.6827	0	50	77	40	130
2-Methylphenol	1	82.4467	0	100	82	50	130
Acetophenone	1	39.1825	0	50	78	50	130
Hexachloroethane	1	35.582	0	50	71	50	130
N-Nitroso-di-n-propylamine	1	38.687	0	50	77	40	130
3&4-Methylphenol	1	85.0191	0	100	85	70	130
Nitrobenzene	1	45.6328	0	50	91	70	130
Isophorone	1	39.4633	0	50	79	60	130
2-Nitrophenol	1	93.9865	0	100	94	70	130
2,4-Dimethylphenol	1	85.9537	0	100	86	40	130
Benzoic Acid	1	57.7642	0	100	58	20	130
bis(2-Chloroethoxy)methane	1	40.8046	0	50	82	60	130
2,4-Dichlorophenol	1	83.6753	0	100	84	70	130
1,2,4-Trichlorobenzene	1	37.9514	0	50	76	50	130
Naphthalene	1	37.0923	0	50	74	50	130
4-Chloroaniline	1	30.727	0	50	61	10	150
Hexachlorobutadiene	1	36.53	0	50	73	60	130
Caprolactam	1	45.4227	0	50	91	50	130
4-Chloro-3-methylphenol	1	96.6783	0	100	97	50	130
2-Methylnaphthalene	1	39.874	0	50	80	70	130
1-Methylnaphthalene	1	39.2711	0	50	79	70	130
1,1'-Biphenyl	1	39.3402	0	50	79	60	130
1,2,4,5-Tetrachlorobenzene	1	36.6687	0	50	73	70	130
Hexachlorocyclopentadiene	1	9.3605	0	50	19*	20	160
2,4,6-Trichlorophenol	1	88.1435	0	100	88	70	130
2,4,5-Trichlorophenol	1	88.6258	0	100	89	70	130
2-Chloronaphthalene	1	39.8765	0	50	80	70	130
1,4-Dimethylnaphthalene	1	39.2427	0	50	78	70	130
Diphenyl Ether	1	39.2649	0	50	79	70	130
2-Nitroaniline	1	52.1856	0	50	104	50	130
Coumarin	1	39.966	0	50	80	70	130
Acenaphthylene	1	39.3981	0	50	79	70	130
Dimethylphthalate	1	42.393	0	50	85	70	130
2,6-Dinitrotoluene	1	41.1477	0	50	82	70	130
Acenaphthene	1	40.4505	0	50	81	50	130
3-Nitroaniline	1	42.2158	0	50	84	70	130
2,4-Dinitrophenol	1	96.7358	0	100	97	20	150
Dibenzofuran	1	40.1613	0	50	80	70	130
2,4-Dinitrotoluene	1	47.8538	0	50	96	40	130
4-Nitrophenol	1	102.9854	0	100	103	20	150
2,3,4,6-Tetrachlorophenol	1	85.0427	0	100	85	70	130
Fluorene	1	40.477	0	50	81	50	130
4-Chlorophenyl-phenylether	1	41.1771	0	50	82	70	130
Diethylphthalate	1	42.8182	0	50	86	70	130
4-Nitroaniline	1	42.3771	0	50	85	50	130
Atrazine	1	43.2611	0	50	87	50	130
4,6-Dinitro-2-methylphenol	1	110.3144	0	100	110	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96003

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	35.8682	0	50	72	50	130
1,2-Diphenylhydrazine	1	47.7073	0	50	95	70	130
4-Bromophenyl-phenylether	1	43.6774	0	50	87	70	130
Hexachlorobenzene	1	40.6002	0	50	81	70	130
N-Octadecane	1	52.9693	0	50	106	70	130
Pentachlorophenol	1	94.6094	0	100	95	40	130
Phenanthrene	1	43.5644	0	50	87	70	130
Anthracene	1	41.8361	0	50	84	70	130
Carbazole	1	42.1297	0	50	84	70	130
Di-n-butylphthalate	1	47.6367	0	50	95	70	130
Fluoranthene	1	46.0102	2.1651	50	88	70	130
Pyrene	1	47.6769	2.4602	50	90	50	130
Benzidine	1	2.3499	0	50	4.7	0	130
Butylbenzylphthalate	1	51.8107	0	50	104	50	130
3,3'-Dichlorobenzidine	1	35.84	0	50	72	10	130
Benzo[a]anthracene	1	40.7493	0	50	81	70	130
Chrysene	1	44.0847	0	50	88	60	130
bis(2-Ethylhexyl)phthalate	1	147.6238	79.2023	50	137*	70	130
Di-n-octylphthalate	1	52.8737	0	50	106	70	130
Benzo[b]fluoranthene	1	48.8146	0	50	98	70	130
Benzo[k]fluoranthene	1	39.5709	0	50	79	70	130
Benzo[a]pyrene	1	42.452	0	50	85	70	130
Indeno[1,2,3-cd]pyrene	1	42.8777	0	50	86	70	130
Dibenzo[a,h]anthracene	1	41.2868	0	50	83	60	130
Benzo[g,h,i]perylene	1	41.8167	0	50	84	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB96003

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110414.D	AD27961-003(MSD)	12/27/2021 5:49:00 PM
Duplicate(If applicable):	9M110413.D	AD27961-003(MS)	12/27/2021 5:26:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	18.4035	18.6593	1.4	30
Pyridine	1	37.5368	38.8041	3.3	30
N-Nitrosodimethylamine	1	39.3448	40.4325	2.7	30
Benzaldehyde	1	41.2113	40.9059	0.74	30
Aniline	1	30.5185	32.7136	6.9	30
Pentachloroethane	1	38.0614	38.0655	0.01	30
bis(2-Chloroethyl)ether	1	38.7618	38.5053	0.66	30
Phenol	1	89.9416	89.0655	0.98	40
2-Chlorophenol	1	88.4854	90.0443	1.7	40
N-Decane	1	36.4002	35.9575	1.2	30
1,3-Dichlorobenzene	1	36.2405	37.2241	2.7	30
1,4-Dichlorobenzene	1	35.2404	36.6963	4	40
1,2-Dichlorobenzene	1	35.0195	36.4555	4	30
Benzyl alcohol	1	41.7087	42.34	1.5	30
bis(2-chloroisopropyl)ether	1	38.6827	40.1233	3.7	30
2-Methylphenol	1	82.4467	84.2434	2.2	40
Acetophenone	1	39.1825	40.5185	3.4	30
Hexachloroethane	1	35.582	36.9045	3.6	30
N-Nitroso-di-n-propylamine	1	38.687	39.034	0.89	40
3&4-Methylphenol	1	85.0191	87.0813	2.4	30
Nitrobenzene	1	45.6328	46.9296	2.8	30
Isophorone	1	39.4633	40.5688	2.8	30
2-Nitrophenol	1	93.9865	97.4602	3.6	30
2,4-Dimethylphenol	1	85.9537	87.716	2	40
Benzoic Acid	1	57.7642	57.8382	0.13	30
bis(2-Chloroethoxy)methane	1	40.8046	41.5947	1.9	30
2,4-Dichlorophenol	1	83.6753	86.3983	3.2	30
1,2,4-Trichlorobenzene	1	37.9514	39.0434	2.8	40
Naphthalene	1	37.0923	38.0299	2.5	40
4-Chloroaniline	1	30.727	32.6316	6	30
Hexachlorobutadiene	1	36.53	37.2652	2	30
Caprolactam	1	45.4227	46.0719	1.4	30
4-Chloro-3-methylphenol	1	96.6783	98.8697	2.2	40
2-Methylnaphthalene	1	39.874	40.3322	1.1	30
1-Methylnaphthalene	1	39.2711	39.9968	1.8	30
1,1'-Biphenyl	1	39.3402	40.063	1.8	30
1,2,4,5-Tetrachlorobenzene	1	36.6687	37.2607	1.6	30
Hexachlorocyclopentadiene	1	9.3605	9.7875	4.5	30
2,4,6-Trichlorophenol	1	88.1435	88.19	0.05	30
2,4,5-Trichlorophenol	1	88.6258	89.7938	1.3	30
2-Chloronaphthalene	1	39.8765	40.1321	0.64	30
1,4-Dimethylnaphthalene	1	39.2427	38.9381	0.78	30
Diphenyl Ether	1	39.2649	39.3687	0.26	30
2-Nitroaniline	1	52.1856	51.2849	1.7	30
Coumarin	1	39.966	40.0491	0.21	30
Acenaphthylene	1	39.3981	39.3235	0.19	30
Dimethylphthalate	1	42.393	41.9563	1	30
2,6-Dinitrotoluene	1	41.1477	41.1489	0	30
Acenaphthene	1	40.4505	40.0194	1.1	40
3-Nitroaniline	1	42.2158	42.5526	0.79	30
2,4-Dinitrophenol	1	96.7358	93.9637	2.9	30
Dibenzofuran	1	40.1613	40.265	0.26	30
2,4-Dinitrotoluene	1	47.8538	46.8632	2.1	40
4-Nitrophenol	1	102.9854	102.8637	0.12	40
2,3,4,6-Tetrachlorophenol	1	85.0427	85.6747	0.74	30
Fluorene	1	40.477	40.0406	1.1	40
4-Chlorophenyl-phenylether	1	41.1771	41.034	0.35	30
Diethylphthalate	1	42.8182	42.2466	1.3	30
4-Nitroaniline	1	42.3771	42.2713	0.25	30
Atrazine	1	43.2611	43.5674	0.71	30
4,6-Dinitro-2-methylphenol	1	110.3144	109.6909	0.57	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB96003

Method: 8270E	Matrix: Soil	Units: mg/Kg	QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	**1**	**35.8682**	**35.6131**	**0.71**	**30**
1,2-Diphenylhydrazine	**1**	**47.7073**	**47.0766**	**1.3**	**30**
4-Bromophenyl-phenylether	**1**	**43.6774**	**43.1619**	**1.2**	**30**
Hexachlorobenzene	**1**	**40.6002**	**39.557**	**2.6**	**30**
N-Octadecane	1	52.9693	52.0639	1.7	30
Pentachlorophenol	**1**	**94.6094**	**94.4709**	**0.15**	**40**
Phenanthrene	**1**	**43.5644**	**42.7942**	**1.8**	**30**
Anthracene	**1**	**41.8361**	**40.7985**	**2.5**	**30**
Carbazole	**1**	**42.1297**	**42.3705**	**0.57**	**30**
Di-n-butylphthalate	**1**	**47.6367**	**47.0506**	**1.2**	**30**
Fluoranthene	**1**	**46.0102**	**45.1169**	**2**	**30**
Pyrene	**1**	**47.6769**	**46.6652**	**2.1**	**40**
Benzidine	**1**	**2.3499**	**0**	**200***	**30**
Butylbenzylphthalate	**1**	**51.8107**	**50.5742**	**2.4**	**40**
3,3'-Dichlorobenzidine	**1**	**35.84**	**36.8493**	**2.8**	**30**
Benzo[a]anthracene	**1**	**40.7493**	**39.5242**	**3.1**	**30**
Chrysene	**1**	**44.0847**	**44.0001**	**0.19**	**30**
bis(2-Ethylhexyl)phthalate	**1**	**147.6238**	**132.6882**	**11**	**30**
Di-n-octylphthalate	**1**	**52.8737**	**51.9665**	**1.7**	**30**
Benzo[b]fluoranthene	**1**	**48.8146**	**48.7203**	**0.19**	**30**
Benzo[k]fluoranthene	**1**	**39.5709**	**44.7132**	**12**	**30**
Benzo[a]pyrene	**1**	**42.452**	**41.6888**	**1.8**	**30**
Indeno[1,2,3-cd]pyrene	**1**	**42.8777**	**42.061**	**1.9**	**30**
Dibenzo[a,h]anthracene	**1**	**41.2868**	**40.7055**	**1.4**	**30**
Benzo[g,h,i]perylene	**1**	**41.8167**	**41.1459**	**1.6**	**30**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB96003
Blank Data File: 9M110405.D
Matrix: Soil

Blank Analysis Date: 12/27/21 14:15
Blank Extraction Date: 12/27/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD27961-001	9M110415.D	12/27/21 18:12
AD27961-002	9M110416.D	12/27/21 18:35
AD27961-003	9M110412.D	12/27/21 17:03
AD27961-003(MSD	9M110414.D	12/27/21 17:49
AD27961-003(MS)	9M110413.D	12/27/21 17:26
SMB96003(MS)	7M118721.D	12/27/21 14:20

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M109528.D
Analysis Date: 11/12/21 08:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.119 to 10.130 min

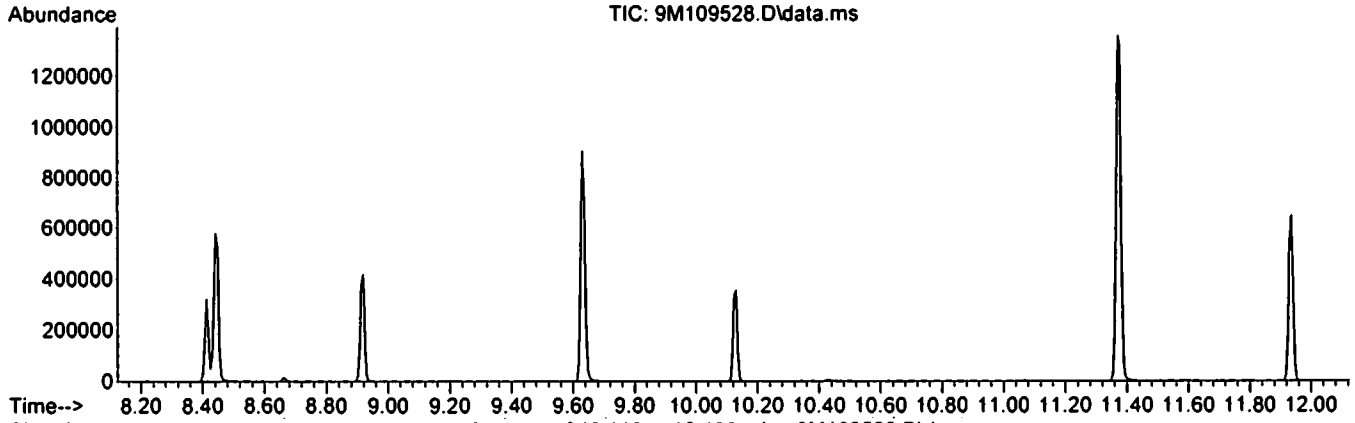
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

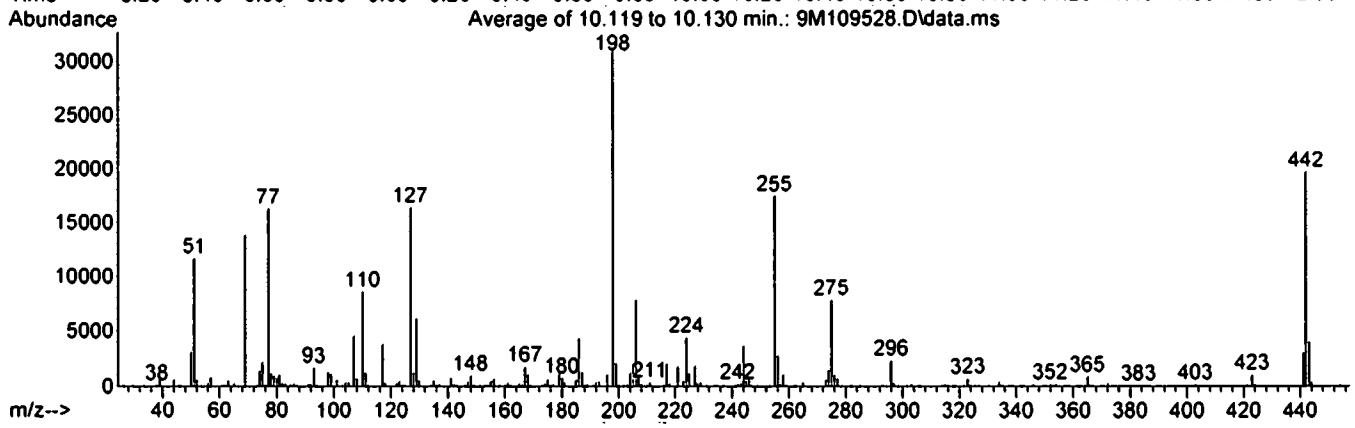
Data File	Sample Number	Analysis Date:
9M109529.D	CAL BNA@50PPM	11/12/21 08:27
9M109530.D	CAL BNA@50PPM	11/12/21 10:07
9M109531.D	CAL BNA@196PP	11/12/21 10:34
9M109532.D	CAL BNA@160PP	11/12/21 10:57
9M109533.D	CAL BNA@120PP	11/12/21 11:20
9M109534.D	CAL BNA@80PPM	11/12/21 11:43
9M109535.D	CAL BNA@10PPM	11/12/21 12:06
9M109536.D	CAL BNA@2PPM	11/12/21 12:29
9M109537.D	CAL BNA@20PPM	11/12/21 12:52
9M109538.D	CAL BNA@0.5PP	11/12/21 13:15
9M109539.D	ICV BNA@50PPM	11/12/21 13:39

Data Path : G:\GcMsData\2021\GCMS_9\Data\11-12-21\
Data File : 9M109528.D
Acq On : 12 Nov 2021 8:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1110.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Nov 10 11:23:34 2021





Spectrum Information: Average of 10.119 to 10.130 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	11707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.5	13901	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.5	16419	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	31246	PASS
199	198	5	9	6.6	2076	PASS
275	198	10	30	25.1	7834	PASS
365	198	1	100	2.8	876	PASS
441	443	0.01	100	75.6	3033	PASS
442	198	40	100	63.2	19733	PASS
443	442	17	23	20.3	4015	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M118592.D
Analysis Date: 12/20/21 08:55
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.155 to 10.161 min

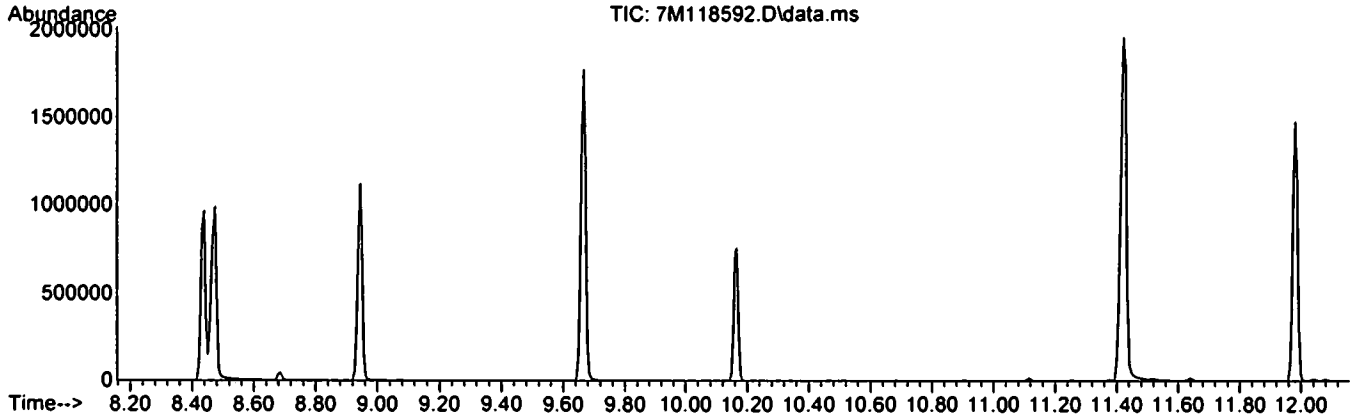
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.0	22325	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	26092	PASS
70	69	0.00	2	0.4	98	PASS
127	198	40	60	55.0	33188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60372	PASS
199	198	5	9	6.8	4112	PASS
275	198	10	30	23.7	14291	PASS
365	198	1	100	2.5	1496	PASS
441	443	0.01	100	71.9	4256	PASS
442	198	40	100	49.2	29700	PASS
443	442	17	23	19.9	5915	PASS

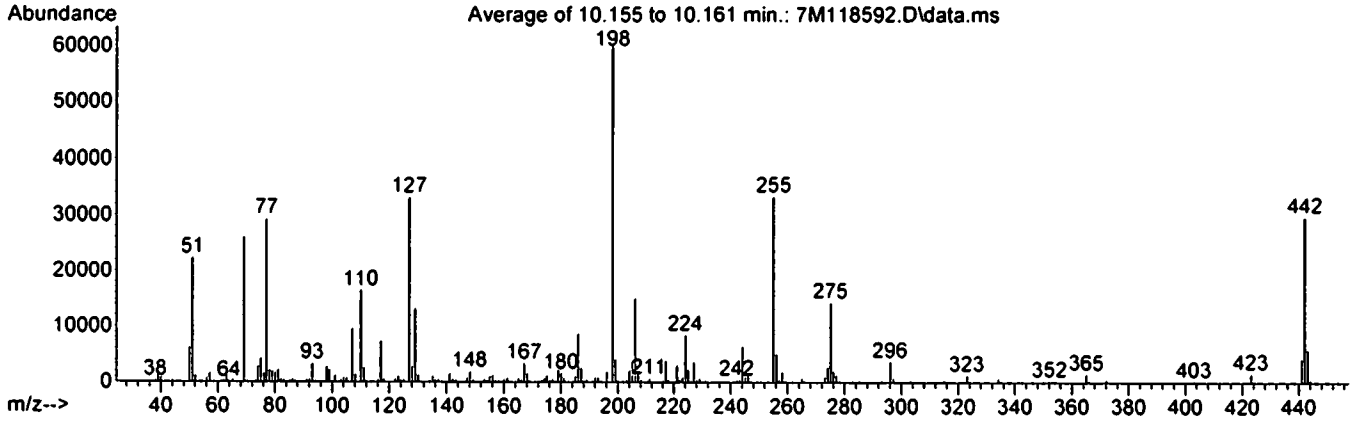
Data File	Sample Number	Analysis Date:
7M118593.D	CAL BNA@2PPM	12/20/21 09:25
7M118594.D	BNA@10PPM	12/20/21 09:48
7M118595.D	CAL BNA@196PP	12/20/21 10:12
7M118596.D	CAL BNA@20PPM	12/20/21 10:40
7M118597.D	CAL BNA@10PPM	12/20/21 11:06
7M118598.D	CAL BNA@160PP	12/20/21 11:30
7M118599.D	CAL BNA@120PP	12/20/21 11:55
7M118600.D	CAL BNA@80PPM	12/20/21 12:19
7M118601.D	CAL BNA@0.5PP	12/20/21 12:46
7M118602.D	CAL BNA@50PPM	12/20/21 13:10
7M118603.D	ICV BNA@50PPM	12/20/21 13:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-20-21\
Data File : 7M118592.D
Acq On : 20 Dec 2021 8:55
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1117.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Nov 17 14:43:55 2021





Spectrum Information: Average of 10.155 to 10.161 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.0	22325	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	26092	PASS
70	69	0.00	2	0.4	98	PASS
127	198	40	60	55.0	33188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60372	PASS
199	198	5	9	6.8	4112	PASS
275	198	10	30	23.7	14291	PASS
365	198	1	100	2.5	1496	PASS
441	443	0.01	100	71.9	4256	PASS
442	198	40	100	49.2	29700	PASS
443	442	17	23	19.9	5915	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M110401.D
Analysis Date: 12/27/21 11:56
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.095 to 10.101 min

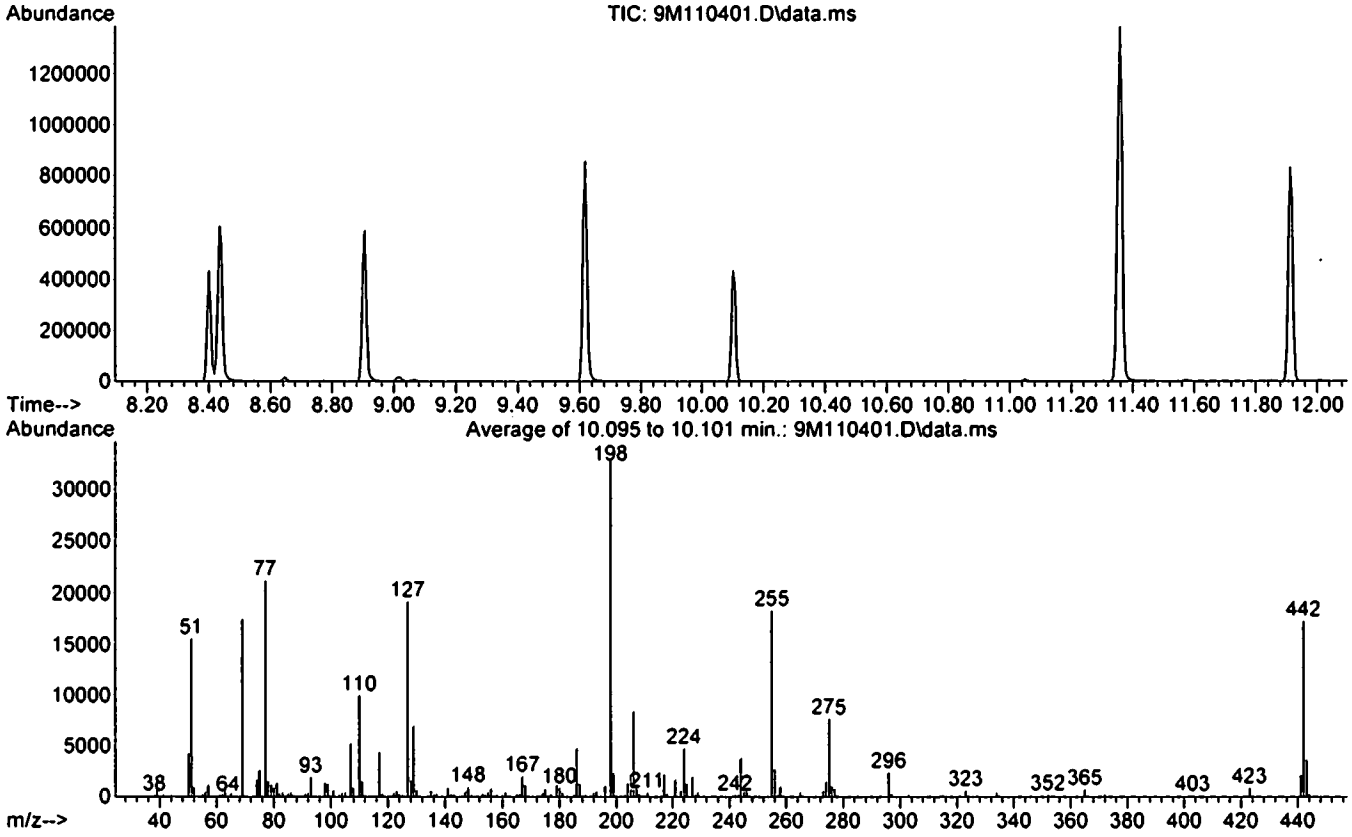
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.2	15616	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.0	17539	PASS
70	69	0.00	2	0.5	86	PASS
127	198	40	60	58.1	19223	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	33096	PASS
199	198	5	9	7.0	2328	PASS
275	198	10	30	23.2	7691	PASS
365	198	1	100	2.2	741	PASS
441	443	0.01	100	59.1	2136	PASS
442	198	40	100	52.3	17321	PASS
443	442	17	23	20.9	3615	PASS

Data File	Sample Number	Analysis Date:
9M110402.D	BNA@50PPM	12/27/21 12:28
9M110403.D	CAL BNA@50PPM	12/27/21 12:53
9M110404.D	AD27999-001(R)	12/27/21 13:52
9M110405.D	SMB96003	12/27/21 14:15
9M110406.D	SMB96002	12/27/21 14:38
9M110407.D	AD27963-004(3X)(	12/27/21 15:01
9M110408.D	OMB96004	12/27/21 15:31
9M110409.D	AD28031-001	12/27/21 15:54
9M110410.D	AD28031-001(MS)	12/27/21 16:17
9M110411.D	AD28031-001(MSD	12/27/21 16:40
9M110412.D	AD27961-003	12/27/21 17:03
9M110413.D	AD27961-003(MS)	12/27/21 17:26
9M110414.D	AD27961-003(MSD	12/27/21 17:49
9M110415.D	AD27961-001	12/27/21 18:12
9M110416.D	AD27961-002	12/27/21 18:35
9M110417.D	AD28050-003	12/27/21 18:58
9M110418.D	AD27939-001	12/27/21 19:22
9M110419.D	AD27939-001(MS)	12/27/21 19:45
9M110420.D	AD27939-001(MSD	12/27/21 20:08
9M110421.D	AD27919-011	12/27/21 20:31
9M110422.D	AD27958-003	12/27/21 20:54
9M110423.D	AD27895-004	12/27/21 21:18
9M110424.D	AD27882-008	12/27/21 21:41
9M110425.D	AD27882-014	12/27/21 22:04
9M110426.D	AD27919-010(3X)	12/27/21 22:27
9M110427.D	AD27919-009(10X)	12/27/21 22:50
9M110428.D	AD27910-001(5X)	12/27/21 23:14
9M110429.D	AD27910-002(5X)	12/27/21 23:37
9M110430.D	AD27910-004(5X)	12/28/21 00:00
9M110431.D	AD27910-005(5X)	12/28/21 00:23
9M110432.D	AD27910-017(10X)	12/28/21 00:46
9M110433.D	AD27910-018(20X)	12/28/21 01:09

Data Path : G:\GcMsData\2021\GCMS_9\Data\12-27-21\
Data File : 9M110401.D
Acq On : 27 Dec 2021 11:56
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_9\METHODQT\9M_1112.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Nov 12 13:36:55 2021



Spectrum Information: Average of 10.095 to 10.101 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	15616	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.0	17539	PASS
70	69	0.00	2	0.5	86	PASS
127	198	40	60	58.1	19223	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	33096	PASS
199	198	5	9	7.0	2328	PASS
275	198	10	30	23.2	7691	PASS
365	198	1	100	2.2	741	PASS
441	443	0.01	100	59.1	2136	PASS
442	198	40	100	52.3	17321	PASS
443	442	17	23	20.9	3615	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M118718.D
Instrument: GCMS 7 **Analysis Date:** 12/27/21 11:59
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.178 to 10.184 min

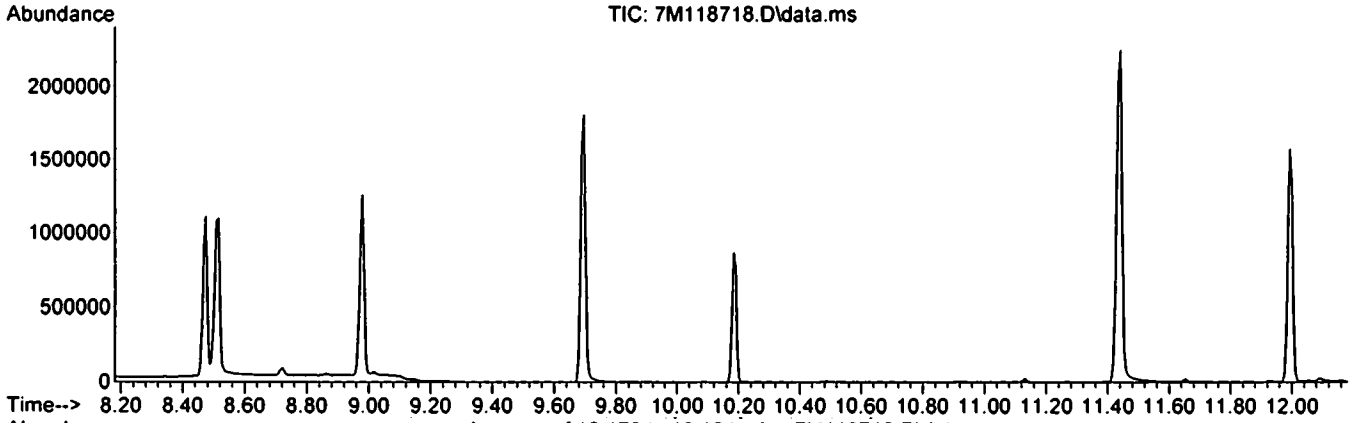
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.8	25912	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	30584	PASS
70	69	0.00	2	0.9	275	PASS
127	198	40	60	53.5	40932	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76572	PASS
199	198	5	9	7.3	5576	PASS
275	198	10	30	24.7	18917	PASS
365	198	1	100	2.3	1753	PASS
441	443	0.01	100	70.5	6230	PASS
442	198	40	100	57.3	43872	PASS
443	442	17	23	20.1	8834	PASS

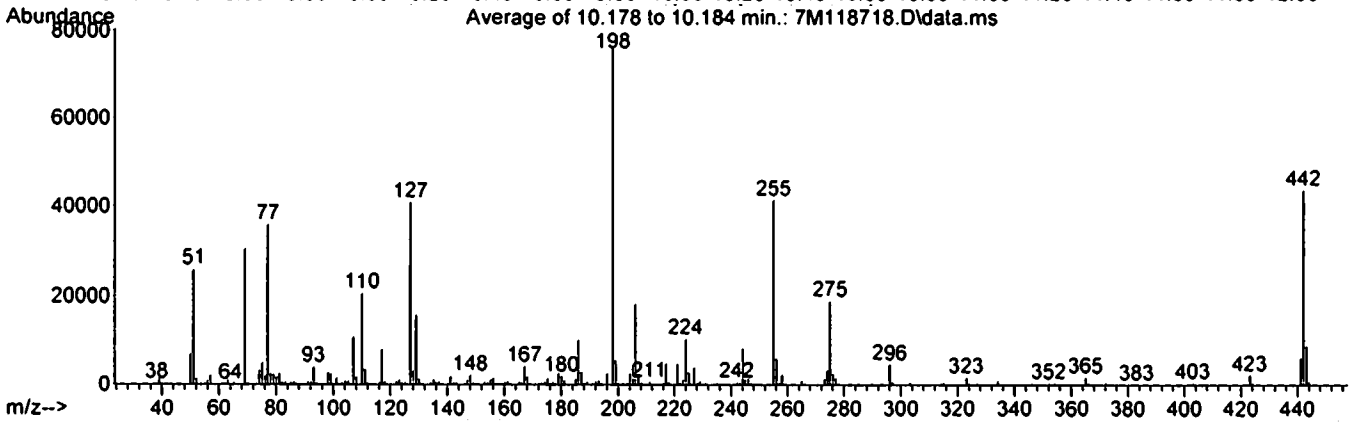
Data File	Sample Number	Analysis Date:
7M118719.D	CAL BNA@50PPM	12/27/21 12:30
7M118720.D	SMB96002(MS)	12/27/21 13:56
7M118721.D	SMB96003(MS)	12/27/21 14:20
7M118722.D	OMB96004(MS)	12/27/21 14:44
7M118723.D	OMB96004	12/27/21 15:08
7M118724.D	SMB96002	12/27/21 15:32
7M118725.D	SMB96003	12/27/21 15:56
7M118726.D	AD28050-001	12/27/21 16:21
7M118727.D	AD28050-002	12/27/21 16:45
7M118728.D	AD28017-001	12/27/21 17:12
7M118729.D	AD28017-002	12/27/21 17:36
7M118730.D	AD28017-003	12/27/21 18:01
7M118731.D	AD28017-004	12/27/21 18:25
7M118732.D	AD28032-001	12/27/21 18:49
7M118733.D	AD27919-002	12/27/21 19:13

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-27-21\
Data File : 7M118718.D
Acq On : 27 Dec 2021 11:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1220.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Dec 20 13:43:00 2021





Spectrum Information: Average of 10.178 to 10.184 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.8	25912	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	30584	PASS
70	69	0.00	2	0.9	275	PASS
127	198	40	60	53.5	40932	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76572	PASS
199	198	5	9	7.3	5576	PASS
275	198	10	30	24.7	18917	PASS
365	198	1	100	2.3	1753	PASS
441	443	0.01	100	70.5	6230	PASS
442	198	40	100	57.3	43872	PASS
443	442	17	23	20.1	8834	PASS

1121702 0085

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9624	1.0385	0.9669	0.9852	1.0105	0.9840	0.9623	1.0374	1.2738	1.02	2.79	0.999	0.999	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0486	1.9170	1.8713	2.0691	2.2124	2.2284	2.2238	2.3593	----	2.12	3.24	0.998	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5844	1.4491	1.4539	1.5611	1.6550	1.6441	1.6192	1.7263	----	1.59	3.19	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2576	2.2947	2.1426	2.2439	2.3506	2.3554	2.3159	2.4717	----	2.30	4.73	0.998	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9817	2.0459	1.9007	1.9986	2.0301	1.9700	1.8467	1.8743	----	1.96	5.56	0.998	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	3.6724	3.8218	3.6170	3.8109	3.8797	3.8028	3.7243	3.9384	5.9717	4.03	5.65	0.999	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8220	0.8160	0.8000	0.8246	0.8651	0.8584	0.8408	0.8950	----	0.840	5.69	0.998	0.999	3.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4993	2.5870	2.4254	2.5484	2.6034	2.5521	2.4368	2.6078	3.7688	2.67	5.71	0.998	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9070	2.7980	2.7604	2.9117	3.0575	3.0437	2.9845	3.1500	----	2.95	5.60	0.999	0.999	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.4390	3.4392	3.2937	3.4793	3.5934	3.5717	3.4979	3.7009	----	3.50	5.61	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4405	2.3875	2.3479	2.4739	2.5552	2.5234	2.4667	2.6111	----	2.48	5.75	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.4001	2.4737	2.3574	2.4726	2.5051	2.4558	2.3701	2.4693	----	2.44	5.79	0.999	0.999	2.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6183	2.7799	2.5364	2.6789	2.7404	2.7154	2.6342	2.7741	----	2.68	5.88	0.999	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5135	1.5618	1.4460	1.5151	1.5577	1.5799	1.5269	1.6228	----	1.54	5.94	0.998	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4241	1.4528	1.3670	1.4209	1.4569	1.4820	1.4296	1.5216	----	1.44	6.07	0.998	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9354	0.7923	0.8570	0.8927	0.9735	0.9931	0.9729	1.0312	----	0.931	6.04	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5245	1.6342	1.5016	1.5422	1.5529	1.5613	1.5181	1.6110	----	1.56	6.15	0.999	0.999	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2790	1.1876	1.1809	1.2453	1.3187	1.3446	1.3138	1.3888	1.8577	1.35	6.12	0.999	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8684	1.9327	1.8087	1.8489	1.9011	1.8899	1.7528	1.7972	----	1.85	6.25	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5577	0.5501	0.5271	0.5475	0.5722	0.5824	0.5669	0.6033	----	0.563	6.34	0.999	1.00	4.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0350	0.9675	0.9599	1.0188	1.0591	1.0389	0.9623	0.9938	1.5420	1.06	6.25	0.998	0.999	17	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3738	1.2322	1.2398	1.3105	1.4009	1.3982	1.3041	1.3519	1.8559	1.39	6.25	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Qua	0.1282	0.1135	0.1167	0.1295	0.1464	0.1518	0.1511	0.1602	----	0.137	6.38	0.997	0.999	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Qua	0.3349	0.2940	0.3027	0.3287	0.3598	0.3626	0.3578	0.3710	----	0.339	6.40	0.999	1.00	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6882	0.6448	0.6339	0.6649	0.7011	0.6990	0.6882	0.7195	----	0.680	6.58	0.999	0.999	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.1380	0.1026	0.1181	0.1310	0.1649	0.1706	0.1717	0.1775	----	0.147	6.64	0.995	0.999	19	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3471	0.3040	0.3130	0.3362	0.3515	0.3547	0.3509	0.3663	0.4496	0.353	6.66	0.999	1.00	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1785	----	0.1050	0.1306	0.2381	0.2357	0.2493	0.2565	----	0.199	6.72	0.997	0.998	31		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4129	0.4087	0.3835	0.4010	0.4125	0.4165	0.4042	0.4268	----	0.408	6.74	0.999	0.999	3.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2724	0.2294	0.2416	0.2598	0.2788	0.2816	0.2806	0.2955	0.3159	0.273	6.82	0.999	1.00	9.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2961	0.3028	0.2757	0.2922	0.2980	0.3014	0.2951	0.3090	----	0.296	6.89	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.0470	1.0755	0.9996	1.0490	1.0627	1.0544	1.0167	1.0556	1.6962	1.12	6.95	0.999	0.999	20	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4019	0.3916	0.3841	0.3984	0.4122	0.4073	0.3911	0.3987	0.5999	0.421	6.99	0.999	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1664	0.1811	0.1564	0.1684	0.1698	0.1708	0.1669	0.1756	----	0.169	7.04	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1028	0.0763	0.0903	0.0990	0.1078	0.1095	0.1092	0.1134	----	0.101	7.26	0.999	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2790	0.2360	0.2456	0.2686	0.2917	0.2961	0.2962	0.3115	----	0.278	7.35	0.999	1.00	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6944	0.6771	0.6494	0.6875	0.7097	0.7020	0.6815	0.7064	----	0.689	7.50	0.999	0.999	2.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6359	0.6332	0.5994	0.6464	0.6485	0.6492	0.6300	0.6543	----	0.637	7.58	0.999	0.999	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6646	0.6552	0.6244	0.6640	0.6791	0.6756	0.6562	0.6804	----	0.662	7.50	0.999	0.999	2.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8181	0.8439	0.7751	0.8068	0.8353	0.8250	0.7981	0.8291	----	0.816	7.87	0.999	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6260	0.6195	0.5745	0.6187	0.6385	0.6449	0.6256	0.6543	----	0.625	7.62	0.999	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.845

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121702 0086

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3487	0.2175	0.2510	0.2846	0.3547	0.3672	0.3633	0.3825	----	0.321	7.61	0.999	0.999	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3951	0.3254	0.3304	0.3732	0.4680	0.4450	0.4280	0.4408	----	0.401	7.71	0.998	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4129	0.3291	0.3665	0.3779	0.4389	0.4465	0.4444	0.4589	----	0.409	7.74	0.999	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4618	1.5140	1.3749	1.4569	1.4905	1.5099	1.4993	1.5684	----	1.48	7.78	0.999	1.00	3.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2532	1.2243	1.1694	1.2342	1.2757	1.2716	1.2471	1.3053	----	1.25	7.90	1.00	1.00	3.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0843	1.0373	0.9938	1.0787	1.0997	1.0743	1.0204	1.0504	----	1.05	8.18	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8957	0.8725	0.8277	0.8857	0.9200	0.9223	0.8954	0.9455	----	0.896	7.96	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.4092	0.2887	0.3381	0.3846	0.4465	0.4466	0.4453	0.4696	----	0.404	7.97	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5229	0.4865	0.4837	0.5100	0.5299	0.5411	0.5265	0.5415	----	0.518	8.16	1.00	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	2.0049	1.8122	1.7868	1.9733	2.0282	2.0438	1.9827	2.0551	----	1.96	8.26	1.00	1.00	5.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3643	1.3293	1.2827	1.3547	1.4004	1.4241	1.3904	1.4616	----	1.38	8.12	0.999	0.999	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Qua	0.2782	0.1388	0.2329	0.2784	0.3131	0.3074	0.2911	0.2979	----	0.267	8.18	0.998	0.999	22	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2908	1.2738	1.2124	1.2642	1.3286	1.3155	1.2716	1.3292	----	1.29	8.41	0.999	0.999	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3201	0.1950	0.2774	0.3205	0.3632	0.3617	0.3575	0.3700	----	0.321	8.33	0.999	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.0869	----	0.0451	0.0618	0.1087	0.1195	0.1271	0.1374	----	0.0981	8.42	0.990	0.999	35	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7827	1.7455	1.6620	1.7503	1.8030	1.7994	1.7598	1.8414	2.7555	1.88	8.57	0.999	0.999	18	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3137	0.1515	0.2380	0.3005	0.3764	0.3932	0.3922	0.4181	----	0.323	8.54	0.997	0.999	28	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2423	0.0971	0.1858	0.2265	0.2770	0.2835	0.2825	0.2919	----	0.236	8.45	0.997	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3371	0.2342	0.2888	0.3203	0.3628	0.3754	0.3688	0.3905	----	0.335	8.67	0.998	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4784	1.3492	1.3467	1.4529	1.5101	1.5068	1.4451	1.5090	----	1.45	8.90	0.999	0.999	4.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6835	0.6653	0.6452	0.6744	0.7039	0.7095	0.6878	0.7234	----	0.687	8.88	0.999	1.00	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3517	1.2321	1.2382	1.3373	1.3846	1.3999	1.3726	1.4466	----	1.35	8.75	0.999	0.999	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3794	0.2108	0.2963	0.3488	0.4084	0.4144	0.4054	0.4252	----	0.361	8.90	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3785	0.2738	0.3162	0.3638	0.3982	0.4039	0.4031	0.4274	----	0.371	9.52	0.998	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0667	----	0.0384	0.0522	0.0847	0.0942	0.0973	0.1028	----	0.0767	8.92	0.996	0.999	32	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6667	0.6137	0.6067	0.6608	0.6785	0.6906	0.6588	0.6918	----	0.659	9.00	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0970	0.0638	0.0758	0.0921	0.1065	0.1096	0.1083	0.1145	----	0.0960	9.12	0.998	0.999	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8028	0.7355	0.7308	0.7920	0.8132	0.8254	0.7892	0.9078	----	0.800	9.04	0.996	0.998	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2120	0.1905	0.1888	0.2081	0.2178	0.2263	0.2184	0.2324	----	0.212	9.38	0.998	0.999	7.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2245	0.2244	0.2147	0.2256	0.2310	0.2348	0.2274	0.2413	----	0.228	9.44	0.999	0.999	3.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4526	0.3055	0.3705	0.4318	0.4571	0.4645	0.4379	0.4491	----	0.421	9.71	0.999	0.999	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1263	----	0.0853	0.1072	0.1391	0.1479	0.1477	0.1591	----	0.130	9.64	0.997	0.999	20	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1071	1.1074	1.0299	1.1076	1.1353	1.1443	1.0920	1.1436	----	1.11	9.88	0.999	0.999	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1346	1.0159	1.0256	1.1238	1.1722	1.1868	1.1336	1.1875	----	1.12	9.94	0.999	0.999	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0534	0.9433	0.9530	1.0382	1.0852	1.1119	1.0591	1.1128	----	1.04	10.11	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2114	0.8511	0.9817	1.1298	1.2483	1.2889	1.2345	1.3030	1.0518	1.14	10.48	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1959	0.9746	1.0118	1.1427	1.2390	1.2665	1.2179	1.2875	----	1.17	11.22	0.999	0.999	10	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3132	1.1788	1.1981	1.2929	1.3442	1.3431	1.2920	1.3431	----	1.29	11.49	0.999	0.999	5.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.8253	0.4771	0.6651	0.7903	0.8780	0.8544	0.7833	0.7829	----	0.757	11.37	0.997	0.999	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6634	0.6183	0.6068	0.6496	0.6918	0.6974	0.6818	0.7365	----	0.668	11.67	0.997	0.998	6.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.845
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M109530.D	CAL BNA@50PPM	11/12/21 10:07	2	9M109536.D	CAL BNA@2PPM	11/12/21 12:29
3	9M109535.D	CAL BNA@10PPM	11/12/21 12:06	4	9M109537.D	CAL BNA@20PPM	11/12/21 12:52
5	9M109534.D	CAL BNA@80PPM	11/12/21 11:43	6	9M109533.D	CAL BNA@120PPM	11/12/21 11:20
7	9M109532.D	CAL BNA@160PPM	11/12/21 10:57	8	9M109531.D	CAL BNA@196PPM	11/12/21 10:34
9	9M109538.D	CAL BNA@0.5PPM	11/12/21 13:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2581	0.2208	0.2294	0.2433	0.2702	0.2731	0.2697	0.2863	----	0.256	11.60	0.998	0.999	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4522	0.3175	0.3732	0.4153	0.4680	0.4770	0.4645	0.4853	----	0.432	12.00	0.999	0.999	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5453	0.3020	0.4116	0.4853	0.5681	0.5833	0.5740	0.6049	----	0.509	12.25	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Qua	0.4090	0.2028	0.2947	0.3479	0.4261	0.4307	0.4170	0.4371	----	0.371	12.36	0.999	0.999	23		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4707	0.3390	0.4080	0.4666	0.5043	0.5014	0.4845	0.4970	----	0.459	12.88	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2591	1.2310	1.1698	1.2516	1.2936	1.2988	1.2576	1.3003	----	1.26	12.91	0.999	0.999	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.2559	1.2566	1.1720	1.2439	1.2635	1.2542	1.1614	1.2167	----	1.23	12.95	0.998	0.998	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.8253	0.4720	0.6343	0.7437	0.8454	0.8517	0.8063	0.8387	----	0.752	12.95	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1854	0.4944	0.7883	0.9702	1.2565	1.3146	1.2879	1.3756	----	1.08	13.70	0.998	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1382	0.9772	1.0034	1.1964	1.1841	1.1931	1.1967	1.3067	----	1.15	14.13	0.996	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1500	1.0463	1.0559	1.0442	1.1920	1.1748	1.1730	1.1903	----	1.13	14.16	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1147	0.8795	0.9429	1.0377	1.1501	1.1895	1.1504	1.2288	----	1.09	14.50	0.998	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2675	0.9839	1.0523	1.1561	1.3126	1.3716	1.3462	1.4405	----	1.24	15.94	0.998	0.999	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0392	0.8025	0.8707	0.9504	1.0752	1.1191	1.1030	1.1768	----	1.02	15.97	0.998	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0437	0.8741	0.9013	0.9750	1.0721	1.1133	1.0879	1.1694	----	1.03	16.34	0.998	0.999	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.845
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.8945	0.9127	0.8842	0.9167	0.9231	0.9139	0.8895	0.9514	0.4553	0.860	2.80	0.998	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0327	1.7523	1.9162	2.0557	2.1417	2.1882	2.1356	2.2029	-----	2.05	3.26	0.999	1.00	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.3707	1.2840	1.2757	1.3735	1.4551	1.4357	1.4063	1.4790	-----	1.39	3.22	0.999	0.999	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2144	1.9930	2.4771	2.3467	2.4215	2.3761	2.6019	2.3715	-----	2.35	4.75	0.997	0.997	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7459	1.7574	1.7395	1.8672	1.8700	1.7718	1.6945	1.7236	-----	1.77	5.57	0.999	0.999	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3496	3.1555	3.3095	3.5401	3.5590	3.3830	3.2144	3.2980	3.7879	3.40	5.66	0.999	0.999	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.7937	0.8032	0.8146	0.8831	0.8609	0.8202	0.7798	0.8052	-----	0.820	5.70	0.998	0.999	4.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.1632	2.1093	2.2638	2.3788	2.2890	2.0482	1.9820	2.0139	2.4521	2.19	5.71	0.997	0.998	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.5651	2.4488	3.0319	2.7289	2.7690	2.6705	2.8958	2.5702	-----	2.71	5.61	0.994	0.994	7.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.9569	2.8899	2.9890	3.1933	3.1604	2.9278	2.7335	2.7945	-----	2.96	5.62	0.997	0.998	5.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4178	2.2467	2.3895	2.6021	2.5976	2.4655	2.3138	2.3913	-----	2.43	5.75	0.998	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.7066	1.8692	1.8253	1.9408	1.7847	1.6154	1.5328	1.5651	-----	1.73	5.80	0.997	0.998	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6631	2.7718	2.7462	2.9135	2.8196	2.5845	2.4560	2.5141	-----	2.68	5.89	0.997	0.998	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.3652	1.4980	1.4106	1.4503	1.3883	1.3421	1.3144	1.3692	-----	1.39	5.95	0.999	0.999	4.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.2981	1.4203	1.3315	1.3702	1.3261	1.2796	1.2439	1.2894	-----	1.32	6.07	0.999	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.7715	0.6951	0.7558	0.8028	0.7912	0.7882	0.7722	0.7984	-----	0.772	6.04	1.00	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	0.9879	1.0608	1.0420	1.0856	1.0072	0.9650	0.9471	0.9692	-----	1.01	6.15	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.0253	0.9959	1.0426	1.1011	1.0593	1.0378	1.0152	1.0472	0.9628	1.03	6.13	1.00	1.00	3.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.5068	1.6695	1.5659	1.6930	1.4687	1.3125	1.2388	1.2847	-----	1.47	6.26	0.995	0.997	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5088	0.5557	0.5176	0.5561	0.5227	0.5121	0.5006	0.5185	-----	0.524	6.35	0.999	0.999	4.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.7139	0.7862	0.7834	0.8036	0.7088	0.6729	0.6685	0.6859	0.8574	0.742	6.26	0.998	0.999	9.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.0368	0.9878	1.0637	1.1500	1.0300	0.9097	0.8859	0.8949	1.1983	1.02	6.25	0.994	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1509	0.1348	0.1683	0.1544	0.1557	0.1598	0.1791	0.1628	-----	0.158	6.38	0.996	0.997	8.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3051	0.3005	0.3049	0.3176	0.3042	0.3001	0.2907	0.3042	-----	0.303	6.40	0.999	0.999	2.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5488	0.5637	0.5665	0.5907	0.5575	0.5695	0.5515	0.5816	-----	0.566	6.58	0.999	0.999	2.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1715	0.1514	0.1572	0.1743	0.1782	0.1801	0.1746	0.1824	-----	0.171	6.65	0.999	1.00	6.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3044	0.2977	0.3137	0.3225	0.3076	0.3089	0.2992	0.3123	0.3312	0.311	6.66	0.999	0.999	3.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2369	-----	0.1622	0.1942	0.2565	0.2844	0.2761	0.2932	-----	0.243	6.73	0.997	0.999	20		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3278	0.3356	0.3401	0.3645	0.3274	0.3183	0.3111	0.3196	-----	0.331	6.74	0.999	0.999	5.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2590	0.2177	0.2494	0.2653	0.2639	0.2638	0.2574	0.2700	0.2264	0.253	6.82	0.999	0.999	7.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2940	0.3273	0.3006	0.3188	0.2981	0.2888	0.2796	0.2901	-----	0.300	6.89	0.999	0.999	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9094	1.0096	0.9380	0.9795	0.8967	0.8508	0.8288	0.8556	1.1025	0.930	6.96	0.999	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3685	0.3536	0.3638	0.3937	0.3678	0.3516	0.3376	0.3476	0.3977	0.365	6.99	0.999	0.999	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1634	0.1803	0.1694	0.1819	0.1690	0.1694	0.1663	0.1711	-----	0.171	7.05	1.00	1.00	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0936	0.0761	0.0895	0.0977	0.0989	0.1108	0.1057	0.1126	-----	0.0981	7.28	0.997	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2553	0.2012	0.2501	0.2695	0.2643	0.2695	0.2585	0.2695	-----	0.255	7.36	0.999	0.999	9.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6051	0.6230	0.6182	0.6460	0.6036	0.5835	0.5593	0.5750	-----	0.602	7.50	0.999	0.999	4.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.5859	0.6425	0.6091	0.6243	0.5752	0.5595	0.5400	0.5524	-----	0.586	7.58	0.999	0.999	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.5952	0.6327	0.6136	0.6360	0.5895	0.5728	0.5493	0.5636	-----	0.594	7.50	0.999	0.999	5.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7387	0.7701	0.7794	0.8032	0.7362	0.7079	0.6856	0.6960	-----	0.740	7.88	0.999	1.00	5.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5694	0.5850	0.5655	0.6206	0.5802	0.5670	0.5336	0.5713	-----	0.574	7.63	0.998	0.998	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.613

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121702 0089

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3262	0.2389	0.2847	0.3315	0.3622	0.3870	0.3818	0.4093	-----	0.340	7.62	0.997	0.999	17	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4532	0.3142	0.3638	0.3936	0.3996	0.4038	0.3932	0.4159	-----	0.392	7.72	0.998	0.998	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3411	0.2996	0.3783	0.4106	0.4306	0.4388	0.4281	0.4522	-----	0.397	7.76	0.997	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3771	1.3958	1.5655	1.4609	1.3830	1.3961	1.5396	1.4361	-----	1.44	7.79	0.998	0.998	5.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1263	1.1548	1.1262	1.2011	1.1104	1.0677	1.0426	1.0877	-----	1.11	7.90	0.999	0.999	4.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8734	1.0076	0.9453	0.9911	0.8443	0.7532	0.7269	0.7410	-----	0.860	8.19	0.996	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8734	1.0076	0.9453	0.9911	0.8443	0.7532	0.7269	0.7410	-----	0.860	8.19	0.993	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7767	0.8332	0.7978	0.8570	0.7912	0.7678	0.7296	0.7852	-----	0.792	7.97	0.997	0.998	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3520	0.2648	0.3249	0.3597	0.3624	0.3608	0.3517	0.3705	-----	0.343	7.99	0.999	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4371	0.3887	0.4479	0.4641	0.4281	0.3827	0.3648	0.3681	-----	0.410	8.17	0.995	0.998	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7819	1.8312	1.8221	1.9190	1.7612	1.7105	1.6688	1.7269	-----	1.78	8.27	0.999	0.999	4.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2520	1.3886	1.3328	1.3934	1.2942	1.2888	1.2492	1.3260	-----	1.32	8.13	0.998	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2869	0.2674	0.3000	0.3130	0.2838	0.2573	0.2451	0.2569	-----	0.276	8.19	0.996	0.997	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.0988	1.2243	1.1537	1.2183	1.1049	1.0707	1.0389	1.1008	-----	1.13	8.43	0.998	0.998	5.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3280	0.2274	0.3154	0.3500	0.3372	0.3286	0.3220	0.3380	-----	0.318	8.35	0.999	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1396	-----	0.0762	0.1127	0.1701	0.1889	0.1818	0.2032	-----	0.153	8.44	0.994	0.997	30	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5782	1.7126	1.6148	1.7011	1.5678	1.5384	1.4959	1.5661	1.8447	1.62	8.59	0.999	0.999	6.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4008	0.2986	0.3720	0.4080	0.4165	0.4304	0.4159	0.4397	-----	0.398	8.56	0.999	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2306	0.0761	0.1515	0.2274	0.2265	0.2515	0.2473	0.2637	-----	0.209	8.46	0.997	0.999	30	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3408	0.2915	0.3267	0.3637	0.3637	0.3698	0.3631	0.3818	-----	0.350	8.69	0.999	1.00	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2594	1.3253	1.3232	1.3797	1.2581	1.2289	1.1866	1.2454	-----	1.28	8.92	0.999	0.999	4.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6122	0.6467	0.6483	0.6654	0.6264	0.6137	0.5933	0.6250	-----	0.629	8.90	0.999	0.999	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2680	1.3364	1.3257	1.4027	1.3065	1.3045	1.2726	1.3307	-----	1.32	8.78	0.999	0.999	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3427	0.2102	0.3396	0.3594	0.3504	0.3557	0.3494	0.3659	-----	0.334	8.92	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3655	0.3230	0.3582	0.3938	0.3960	0.4057	0.3948	0.4204	-----	0.382	9.67	0.998	0.999	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1033	-----	0.0763	0.0991	0.1132	0.1176	0.1161	0.1234	-----	0.107	8.94	0.998	0.999	15	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5532	0.5552	0.5751	0.6118	0.5515	0.5454	0.5343	0.5542	-----	0.560	9.01	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1034	0.0765	0.1068	0.1065	0.1115	0.1176	0.1341	0.1244	-----	0.110	9.15	0.993	0.995	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.5753	0.6704	0.6688	0.7066	0.6303	0.6092	0.5929	0.6094	-----	0.633	9.06	0.998	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1920	0.1895	0.1892	0.2082	0.2013	0.2067	0.2019	0.2132	-----	0.200	9.40	0.998	0.999	4.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2173	0.2201	0.2150	0.2307	0.2265	0.2315	0.2263	0.2378	-----	0.226	9.46	0.999	0.999	3.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2807	0.2716	0.3012	0.3195	0.2848	0.2746	0.2692	0.2753	-----	0.285	9.74	0.999	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1400	-----	0.1126	0.1399	0.1535	0.1611	0.1606	0.1697	-----	0.148	9.67	0.998	0.999	13	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	0.9536	1.1009	1.0068	1.0526	0.9496	0.9303	0.9098	0.9498	-----	0.982	9.91	0.999	0.999	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	0.9799	1.0336	1.0100	1.0507	0.9755	0.9475	0.9378	0.9653	-----	0.988	9.97	0.999	0.999	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.8899	0.8940	0.9177	0.9660	0.8906	0.8843	0.8770	0.9060	-----	0.903	10.14	0.999	1.00	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.0637	1.0132	1.1137	1.1784	1.1118	1.0914	1.0612	1.0980	1.1119	1.09	10.52	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.0704	1.0737	1.0781	1.1363	1.0848	1.0928	1.0583	1.1049	-----	1.09	11.26	0.999	0.999	2.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1649	1.2695	1.2059	1.2509	1.1746	1.1903	1.1636	1.2443	-----	1.21	11.53	0.998	0.999	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7541	0.3040	0.6108	0.7347	0.7796	0.7855	0.7647	0.8194	-----	0.694	11.42	0.998	0.999	24		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6355	0.6071	0.7238	0.6630	0.6654	0.6955	0.7948	0.7597	-----	0.693	11.71	0.993	0.997	9.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.613
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121702 0090

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0 Avg	0.2261	0.2416	0.2313	0.2476	0.2487	0.2626	0.2560	0.2839	----	0.250	11.64	0.994	0.998	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0 Avg	0.4281	0.4067	0.4222	0.4620	0.4548	0.4593	0.4446	0.4832	----	0.445	12.05	0.998	0.999	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0 Avg	0.5059	0.4547	0.5043	0.5477	0.5411	0.5520	0.5464	0.5834	----	0.529	12.31	0.998	0.999	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0 Avg	0.3618	0.2823	0.3497	0.3884	0.3823	0.3737	0.3569	0.3878	----	0.360	12.41	0.997	0.997	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0 Avg	0.4571	0.2887	0.4170	0.4833	0.4902	0.4893	0.4795	0.5075	----	0.452	12.93	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0 Avg	1.1152	1.2662	1.1587	1.2056	1.1542	1.1422	1.1668	1.2597	----	1.18	12.96	0.996	0.999	4.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0 Avg	0.9775	1.3130	1.0937	1.1367	0.9898	0.9891	0.9326	1.0104	----	1.06	13.00	0.997	0.997	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0 Avg	0.6697	0.6565	0.7255	0.7713	0.6946	0.6810	0.6680	0.7107	----	0.697	13.00	0.998	0.999	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0 Avg	1.0740	0.7956	1.0743	1.1550	1.1538	1.1563	1.1315	1.2218	----	1.10	13.77	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0 Avg	1.0348	0.9220	0.9886	1.0701	1.0850	1.1299	1.1348	1.2695	----	1.08	14.20	0.995	0.999	9.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0 Avg	0.9859	1.0281	1.0828	1.0992	1.0021	1.0140	0.9777	1.0308	----	1.03	14.24	0.999	0.999	4.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0 Avg	0.9911	0.9349	0.9624	1.0508	1.0207	1.0609	1.0436	1.1357	----	1.03	14.58	0.996	0.999	6.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0 Avg	1.0642	0.9465	1.0163	1.0884	1.1366	1.1826	1.1624	1.2728	----	1.11	16.09	0.997	0.999	9.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0 Avg	0.9243	0.7669	0.8972	0.9459	0.9925	1.0100	0.9964	1.0843	----	0.952	16.11	0.996	0.999	9.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0 Avg	0.9225	0.9247	0.9204	0.9713	0.9895	1.0047	0.9938	1.0668	----	0.974	16.51	0.997	0.999	5.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.613

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110403.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/27/2021 12:53:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.71	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.74	48.37	50	**		1.025	0.991	3.26	
Pyridine	1	0		3.22	58.11	50	**		2.116	2.459	16.22	
N-Nitrosodimethylamine	1	0		3.16	55.13	50	**		1.587	1.749	10.26	
2-Fluorophenol	1	0	S	4.71	54.29	50	**		2.304	2.502	8.58	
Benzaldehyde	1	0		5.53	57.17	50	20	0.01	1.956	2.236	14.33	
Aniline	1	0		5.62	55.51	50	**		4.027	4.124	11.02	
Pentachloroethane	1	0		5.67	50.88	50	**	0.05	0.840	0.855	1.76	
bis(2-Chloroethyl)ether	1	0		5.68	49.63	50	20	0.7	2.670	2.650	0.73	
Phenol-d5	1	0	S	5.58	55.40	50	**		2.952	3.270	10.80	
Phenol	1	0		5.60	54.09	50	20	0.8	3.502	3.789	8.19	
2-Chlorophenol	1	0		5.72	53.03	50	20	0.8	2.476	2.626	6.06	
N-Decane	1	0		5.75	55.53	50	**	0.05	2.438	2.708	11.05	
1,3-Dichlorobenzene	1	0		5.85	51.41	50	**		2.685	2.761	2.83	
1,4-Dichlorobenzene-d4	1	0	I	5.90	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.92	48.15	50	20		1.541	1.483	3.70	
1,2-Dichlorobenzene	1	0		6.04	48.60	50	**		1.444	1.404	2.81	
Benzyl alcohol	1	0		6.01	51.71	50	**		0.931	0.963	3.43	
bis(2-chloroisopropyl)ether	1	0		6.12	54.67	50	20	0.01	1.556	1.701	9.33	
2-Methylphenol	1	0		6.10	49.03	50	20	0.7	1.346	1.320	1.95	
Acetophenone	1	0		6.23	50.45	50	20	0.01	1.850	1.867	0.89	
Hexachloroethane	1	0		6.31	49.84	50	20	0.3	0.563	0.562	0.32	
N-Nitroso-di-n-propylamine	1	0		6.22	50.55	50	20	0.5	1.064	1.076	1.11	
3&4-Methylphenol	1	0		6.22	48.73	50	20		1.385	1.350	2.54	
Naphthalene-d8	1	0	I	6.91	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.35	28.74	25	**		0.137	0.160	14.97	
Nitrobenzene	1	0		6.37	55.35	50	20	0.2	0.339	0.385	10.69	
Isophorone	1	0		6.55	53.19	50	20	0.4	0.680	0.723	6.39	
2-Nitrophenol	1	0		6.61	58.61	50	20	0.1	0.147	0.175	17.21	
2,4-Dimethylphenol	1	0		6.64	49.18	50	20	0.2	0.353	0.347	1.65	
Benzoic Acid	1	0		6.70	50.75	50	**		0.199	0.213	1.50	
bis(2-Chloroethoxy)methane	1	0		6.71	49.76	50	20	0.3	0.408	0.406	0.48	
2,4-Dichlorophenol	1	0		6.80	49.57	50	20	0.2	0.273	0.271	0.86	
1,2,4-Trichlorobenzene	1	0		6.86	48.81	50	**		0.296	0.289	2.37	
Naphthalene	1	0		6.92	48.79	50	20	0.7	1.117	1.019	2.42	
4-Chloroaniline	1	0		6.96	45.64	50	20	0.01	0.421	0.384	8.72	
Hexachlorobutadiene	1	0		7.01	48.23	50	20	0.01	0.169	0.163	3.54	
Caprolactam	1	0		7.24	53.99	50	20	0.01	0.101	0.109	7.97	
4-Chloro-3-methylphenol	1	0		7.32	51.96	50	20	0.2	0.278	0.289	3.92	
2-Methylnaphthalene	1	0		7.47	46.91	50	**	0.4	0.689	0.646	6.17	
1-Methylnaphthalene	1	0		7.54	48.89	50	**	0.4	0.637	0.623	2.21	
Methylnaphthalenes	1	0		7.47	95.54	50	**			1.266	91.08	
1,1'-Biphenyl	1	0		7.84	48.04	50	20	0.01	0.816	0.784	3.92	
Acenaphthene-d10	1	0	I	8.35	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.60	47.02	50	20	0.01	0.625	0.588	5.96	
Hexachlorocyclopentadiene	1	0		7.58	16.96	50	20	0.05	0.321	0.113	66.09	C1
2,4,6-Trichlorophenol	1	0		7.68	46.60	50	20	0.2	0.401	0.374	6.79	
2,4,5-Trichlorophenol	1	0		7.72	47.79	50	20	0.2	0.409	0.391	4.42	
2-Fluorobiphenyl	1	0	S	7.75	24.24	25	**		1.485	1.440	3.03	
2-Chloronaphthalene	1	0		7.87	47.15	50	20	0.8	1.248	1.177	5.70	
1,4-Dimethylnaphthalene	1	0		8.15	46.20	50	**		1.055	0.975	7.59	
Dimethylnaphthalenes	1	0		8.15	46.20	50	20			0.975	7.59	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110403.D Instrument: GCMS 9

Cont Calibration Date/Time 12/27/2021 12:53:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.92	47.78	50	**		0.896	0.856	4.44	
2-Nitroaniline	1	0		7.95	56.51	50	20	0.01	0.404	0.478	13.03	
Coumarin	1	0		8.14	46.84		**		0.518			
Acenaphthylene	1	0		8.23	49.60	50	20	0.9	1.961	1.945	0.79	
Dimethylphthalate	1	0		8.09	48.72	50	20	0.01	1.376	1.341	2.56	
2,6-Dinitrotoluene	1	0		8.15	49.54	50	20	0.2	0.267	0.299	0.92	
Acenaphthene	1	0		8.38	47.74	50	20	0.9	1.286	1.228	4.51	
3-Nitroaniline	1	0		8.31	55.93	50	20	0.01	0.321	0.359	11.85	
2,4-Dinitrophenol	1	0		8.40	61.76	50	20	0.2	0.098	0.115	23.53	C1
Dibenzofuran	1	0		8.54	45.77	50	20	0.8	1.878	1.719	8.47	
2,4-Dinitrotoluene	1	0		8.52	55.98	50	20	0.2	0.323	0.393	11.97	
4-Nitrophenol	1	0		8.44	53.94	50	20	0.01	0.236	0.271	7.87	
2,3,4,6-Tetrachlorophenol	1	0		8.65	49.24	50	20	0.01	0.335	0.330	1.52	
Fluorene	1	0		8.87	47.92	50	20	0.9	1.450	1.389	4.16	
4-Chlorophenyl-phenylether	1	0		8.85	47.99	50	20	0.4	0.687	0.659	4.01	
Diethylphthalate	1	0		8.72	49.38	50	20	0.01	1.345	1.329	1.24	
4-Nitroaniline	1	0		8.88	49.40	50	20	0.01	0.361	0.386	1.19	
Atrazine	1	0		9.50	52.09	50	20	0.01	0.371	0.386	4.18	
Phenanthrene-d10	1	0	I	9.83	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.91	60.88	50	20	0.01	0.077	0.097	21.77	C1
n-Nitrosodiphenylamine	1	0		8.97	47.46	50	20	0.01	0.659	0.625	5.09	
2,4,6-Tribromophenol	1	0	S	9.10	50.59	50	**		0.096	0.102	1.19	
1,2-Diphenylhydrazine	1	0		9.01	51.00	50	**		0.800	0.816	2.00	
4-Bromophenyl-phenylether	1	0		9.35	48.77	50	20	0.1	0.212	0.207	2.47	
Hexachlorobenzene	1	0		9.41	47.59	50	20	0.1	0.228	0.217	4.83	
N-Octadecane	1	0		9.67	56.05	50	**	0.05	0.421	0.472	12.09	
Pentachlorophenol	1	0		9.62	45.54	50	20	0.05	0.130	0.113	8.92	
Phenanthrene	1	0		9.86	47.23	50	20	0.7	1.108	1.047	5.54	
Anthracene	1	0		9.91	47.61	50	20	0.7	1.123	1.069	4.78	
Carbazole	1	0		10.08	48.37	50	20	0.01	1.045	1.011	3.26	
Di-n-butylphthalate	1	0		10.45	52.04	50	20	0.01	1.145	1.191	4.07	
Fluoranthene	1	0		11.20	50.88	50	20	0.6	1.167	1.188	1.76	
Chrysene-d12	1	0	I	12.91	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.47	50.43	50	20	0.6	1.288	1.299	0.86	
Benzidine	1	0		11.35	50.34	50	**		0.757	0.840	0.68	
Terphenyl-d14	1	0	S	11.64	25.92	25	**		0.668	0.693	3.68	
4,4'-DDE	1	0		11.58	50.32		**		0.256			
4,4'-DDD	1	0		11.98	54.17		**		0.432			
Butylbenzylphthalate	1	0		12.23	53.10	50	20	0.01	0.509	0.582	6.19	
4,4'-DDT	1	0		12.34	51.08		**		0.371			
3,3'-Dichlorobenzidine	1	0		12.87	53.58	50	20	0.01	0.459	0.492	7.15	
Benzo[a]anthracene	1	0		12.89	49.84	50	20	0.8	1.258	1.254	0.32	
Chrysene	1	0		12.94	45.82	50	20	0.7	1.228	1.125	8.36	
bis(2-Ethylhexyl)phthalate	1	0		12.92	49.57	50	20	0.01	0.752	0.823	0.86	
Perylene-d12	1	0	I	14.55	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.67	52.56	50	20	0.01	1.084	1.262	5.12	
Benzo[b]fluoranthene	1	0		14.11	49.50	50	20	0.7	1.150	1.138	1.01	
Benzo[k]fluoranthene	1	0		14.15	47.72	50	20	0.7	1.128	1.077	4.56	
Benzo[a]pyrene	1	0		14.48	49.17	50	20	0.7	1.087	1.069	1.65	
Indeno[1,2,3-cd]pyrene	1	0		15.93	45.86	50	20	0.5	1.241	1.139	8.28	
Dibenzo[a,h]anthracene	1	0		15.95	47.13	50	20	0.4	1.017	0.959	5.73	
Benzo[g,h,i]perylene	1	0		16.33	47.73	50	20	0.5	1.030	0.983	4.55	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110403.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/27/2021 12:53:00 **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.662	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.055	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118719.D Instrument: GCMS 7

Cont Calibration Date/Time 12/27/2021 12:30:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.76	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.80	54.17	50	**		0.860	0.932	8.35	
Pyridine	1	0		3.27	50.94	50	**		2.053	2.092	1.87	
N-Nitrosodimethylamine	1	0		3.22	53.44	50	**		1.385	1.480	6.88	
2-Fluorophenol	1	0	S	4.76	49.86	50	**		2.350	2.344	0.27	
Benzaldehyde	1	0		5.57	49.48	50	20	0.01	1.771	1.753	1.04	
Aniline	1	0		5.66	50.39	50	**		3.400	3.426	0.77	
Pentachloroethane	1	0		5.70	49.73	50	**	0.05	0.820	0.816	0.54	
bis(2-Chloroethyl)ether	1	0		5.71	51.22	50	20	0.7	2.189	2.242	2.43	
Phenol-d5	1	0	S	5.62	51.21	50	**		2.710	2.776	2.42	
Phenol	1	0		5.63	52.55	50	20	0.8	2.956	3.106	5.09	
2-Chlorophenol	1	0		5.76	51.46	50	20	0.8	2.428	2.499	2.93	
N-Decane	1	0		5.80	52.53	50	**	0.05	1.730	1.818	5.06	
1,3-Dichlorobenzene	1	0		5.89	50.15	50	**		2.684	2.692	0.31	
1,4-Dichlorobenzene-d4	1	0	I	5.94	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.95	51.42	50	20		1.392	1.432	2.85	
1,2-Dichlorobenzene	1	0		6.07	51.98	50	**		1.320	1.372	3.96	
Benzyl alcohol	1	0		6.05	52.76	50	**		0.772	0.815	5.52	
bis(2-chloroisopropyl)ether	1	0		6.15	58.26	50	20	0.01	1.008	1.175	16.52	
2-Methylphenol	1	0		6.13	56.02	50	20	0.7	1.032	1.156	12.04	
Acetophenone	1	0		6.27	51.49	50	20	0.01	1.468	1.511	2.99	
Hexachloroethane	1	0		6.35	50.05	50	20	0.3	0.524	0.525	0.09	
N-Nitroso-di-n-propylamine	1	0		6.26	48.89	50	20	0.5	0.742	0.726	2.22	
3&4-Methylphenol	1	0		6.25	53.93	50	20		1.017	1.097	7.86	
Naphthalene-d8	1	0	I	6.95	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.38	25.81	25	**		0.158	0.163	3.24	
Nitrobenzene	1	0		6.40	52.22	50	20	0.2	0.303	0.317	4.45	
Isophorone	1	0		6.59	52.55	50	20	0.4	0.566	0.595	5.10	
2-Nitrophenol	1	0		6.65	53.80	50	20	0.1	0.171	0.184	7.60	
2,4-Dimethylphenol	1	0		6.67	51.85	50	20	0.2	0.311	0.322	3.69	
Benzoic Acid	1	0		6.75	48.13	50	**		0.243	0.227	3.75	
bis(2-Chloroethoxy)methane	1	0		6.75	54.51	50	20	0.3	0.331	0.360	9.02	
2,4-Dichlorophenol	1	0		6.84	56.35	50	20	0.2	0.253	0.285	12.70	
1,2,4-Trichlorobenzene	1	0		6.91	51.64	50	**		0.300	0.310	3.27	
Naphthalene	1	0		6.97	51.48	50	20	0.7	0.930	0.958	2.96	
4-Chloroaniline	1	0		7.01	52.82	50	20	0.01	0.365	0.385	5.63	
Hexachlorobutadiene	1	0		7.05	49.28	50	20	0.01	0.171	0.169	1.44	
Caprolactam	1	0		7.29	53.42	50	20	0.01	0.098	0.105	6.83	
4-Chloro-3-methylphenol	1	0		7.37	53.64	50	20	0.2	0.255	0.273	7.29	
2-Methylnaphthalene	1	0		7.52	53.44	50	**	0.4	0.602	0.643	6.88	
1-Methylnaphthalene	1	0		7.60	52.08	50	**	0.4	0.586	0.611	4.16	
Methylnaphthalenes	1	0		7.52	105.76	50	**			1.257	111.53	
1,1'-Biphenyl	1	0		7.90	52.49	50	20	0.01	0.740	0.777	4.98	
Acenaphthene-d10	1	0	I	8.42	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.65	53.54	50	20	0.01	0.574	0.615	7.09	
Hexachlorocyclopentadiene	1	0		7.63	52.01	50	20	0.05	0.340	0.354	4.02	
2,4,6-Trichlorophenol	1	0		7.74	53.81	50	20	0.2	0.392	0.422	7.61	
2,4,5-Trichlorophenol	1	0		7.77	55.05	50	20	0.2	0.397	0.438	10.09	
2-Fluorobiphenyl	1	0	S	7.81	25.54	25	**		1.444	1.475	2.14	
2-Chloronaphthalene	1	0		7.92	53.21	50	20	0.8	1.115	1.186	6.42	
1,4-Dimethylnaphthalene	1	0		8.21	52.69	50	**		0.860	0.907	5.39	
Dimethylnaphthalenes	1	0		8.21	52.69	50	20			0.907	5.39	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118719.D Instrument: GCMS 7

Cont Calibration Date/Time 12/27/2021 12:30:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.99	53.22	50	**		0.792	0.843	6.44	
2-Nitroaniline	1	0		8.00	52.24	50	20	0.01	0.343	0.359	4.48	
Coumarin	1	0		8.19	56.69		**		0.410			
Acenaphthylene	1	0		8.29	52.46	50	20	0.9	1.778	1.865	4.92	
Dimethylphthalate	1	0		8.15	50.63	50	20	0.01	1.316	1.332	1.26	
2,6-Dinitrotoluene	1	0		8.21	53.71	50	20	0.2	0.276	0.297	7.43	
Acenaphthene	1	0		8.45	51.72	50	20	0.9	1.126	1.165	3.44	
3-Nitroaniline	1	0		8.36	55.20	50	20	0.01	0.318	0.351	10.39	
2,4-Dinitrophenol	1	0		8.46	55.47	50	20	0.2	0.153	0.174	10.95	
Dibenzofuran	1	0		8.60	51.32	50	20	0.8	1.624	1.667	2.63	
2,4-Dinitrotoluene	1	0		8.57	53.43	50	20	0.2	0.398	0.425	6.86	
4-Nitrophenol	1	0		8.49	52.36	50	20	0.01	0.209	0.232	4.72	
2,3,4,6-Tetrachlorophenol	1	0		8.70	52.36	50	20	0.01	0.350	0.367	4.73	
Fluorene	1	0		8.93	51.96	50	20	0.9	1.276	1.326	3.92	
4-Chlorophenyl-phenylether	1	0		8.92	52.82	50	20	0.4	0.629	0.664	5.64	
Diethylphthalate	1	0		8.79	49.88	50	20	0.01	1.318	1.315	0.23	
4-Nitroaniline	1	0		8.94	54.03	50	20	0.01	0.334	0.361	8.07	
Atrazine	1	0		9.57	52.14	50	20	0.01	0.382	0.399	4.29	
Phenanthrene-d10	1	0	I	9.90	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.96	55.85	50	20	0.01	0.107	0.121	11.71	
n-Nitrosodiphenylamine	1	0		9.03	53.99	50	20	0.01	0.560	0.605	7.98	
2,4,6-Tribromophenol	1	0	S	9.17	55.38	50	**		0.110	0.122	10.76	
1,2-Diphenylhydrazine	1	0		9.08	52.73	50	**		0.633	0.668	5.47	
4-Bromophenyl-phenylether	1	0		9.41	54.93	50	20	0.1	0.200	0.220	9.85	
Hexachlorobenzene	1	0		9.48	54.70	50	20	0.1	0.226	0.247	9.41	
N-Octadecane	1	0		9.74	57.28	50	**	0.05	0.285	0.326	14.56	
Pentachlorophenol	1	0		9.68	50.18	50	20	0.05	0.148	0.149	0.36	
Phenanthrene	1	0		9.93	51.73	50	20	0.7	0.982	1.016	3.46	
Anthracene	1	0		9.98	52.68	50	20	0.7	0.988	1.041	5.37	
Carbazole	1	0		10.15	53.38	50	20	0.01	0.903	0.964	6.77	
Di-n-butylphthalate	1	0		10.53	53.40	50	20	0.01	1.094	1.168	6.80	
Fluoranthene	1	0		11.27	52.68	50	20	0.6	1.087	1.146	5.36	
Chrysene-d12	1	0	I	12.99	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.54	52.13	50	20	0.6	1.208	1.260	4.26	
Benzidine	1	0		11.42	54.01	50	**		0.694	0.808	8.03	
Terphenyl-d14	1	0	S	11.72	25.65	25	**		0.693	0.711	2.60	
4,4'-DDE	1	0		11.65	51.04		**		0.250			
4,4'-DDD	1	0		12.05	53.74		**		0.445			
Butylbenzylphthalate	1	0		12.31	52.88	50	20	0.01	0.529	0.560	5.75	
4,4'-DDT	1	0		12.41	58.43		**		0.360			
3,3'-Dichlorobenzidine	1	0		12.94	58.62	50	20	0.01	0.452	0.529	17.23	
Benzo[a]anthracene	1	0		12.97	52.42	50	20	0.8	1.184	1.241	4.83	
Chrysene	1	0		13.02	50.50	50	20	0.7	1.055	1.066	0.99	
bis(2-Ethylhexyl)phthalate	1	0		13.00	52.08	50	20	0.01	0.697	0.726	4.15	
Perylene-d12	1	0	I	14.68	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.78	54.24	50	20	0.01	1.095	1.188	8.48	
Benzo[b]fluoranthene	1	0		14.23	53.60	50	20	0.7	1.079	1.157	7.19	
Benzo[k]fluoranthene	1	0		14.26	51.23	50	20	0.7	1.028	1.053	2.46	
Benzo[a]pyrene	1	0		14.61	52.83	50	20	0.7	1.025	1.083	5.66	
Indeno[1,2,3-cd]pyrene	1	0		16.12	54.76	50	20	0.5	1.109	1.214	9.53	
Dibenzo[a,h]anthracene	1	0		16.15	55.02	50	20	0.4	0.952	1.048	10.04	
Benzo[g,h,i]perylene	1	0		16.54	54.07	50	20	0.5	0.974	1.054	8.14	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118719.D Instrument: GCMS 7

Cont Calibration Date/Time 12/27/2021 12:30:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.594	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.860	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 9M109530.D Method: EPA 8270E

Analysis Date/Time: 11/12/21 10:07

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
Eval File Area Limit:	16559-66236		29294-117176		114192-456766		54458-217832		102032-408126		96603-386412		104604-418416	
Eval File Rt Limit:	2.25-3.25		5.43-6.43		6.44-7.44		7.88-8.88		9.35-10.35		12.42-13.42		14.06-15.06	

Data File	Sample#													
9M109530.D	CAL BNA@50PPM	33118	2.75	58588	5.93	228383	6.94	108916	8.38	204063	9.85	193206	12.92	209208	14.56
9M109531.D	CAL BNA@196PPM	25016	2.74	43177	5.93	171873	6.94	81811	8.38	155085	9.85	151041	12.92	158596	14.56
9M109532.D	CAL BNA@160PPM	27353	2.74	47722	5.92	187885	6.94	90029	8.38	170786	9.85	165121	12.92	175539	14.56
9M109533.D	CAL BNA@120PPM	25881	2.74	45223	5.92	180459	6.94	85911	8.38	159730	9.85	154814	12.92	164815	14.55
9M109534.D	CAL BNA@80PPM	27336	2.74	49171	5.92	195077	6.94	93101	8.38	175374	9.85	167242	12.92	179672	14.55
9M109535.D	CAL BNA@10PPM	23963	2.74	43124	5.92	173483	6.93	84895	8.38	159142	9.85	146568	12.91	157496	14.55
9M109536.D	CAL BNA@2PPM	24360	2.74	44423	5.92	175017	6.93	87263	8.37	163318	9.85	148455	12.91	161765	14.55
9M109537.D	CAL BNA@20PPM	28654	2.74	52105	5.92	206203	6.93	99213	8.38	184782	9.85	174287	12.91	186634	14.55
9M109538.D	CAL BNA@0.5PPM	24368	2.74	44096	5.92	177756	6.93	86981	8.37	162760	9.85	149224	12.91	162376	14.55
9M109539.D	ICV BNA@50PPM	27449	2.74	47884	5.92	189949	6.93	91839	8.38	171179	9.85	165497	12.92	174845	14.55

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M118602.D Method: EPA 8270E

Analysis Date/Time: 12/20/21 13:10

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	34838	2.76	68031	5.94	260912	6.94	134771	8.40	269855	9.88	253227	12.98	280515	14.66
Eval File Area Limit:	17419-69676		34016-136062		130456-521824		67386-269542		134928-539710		126614-506454		140258-561030	
Eval File Rt Limit:	2.26-3.26		5.44-6.44		6.44-7.44		7.9-8.9		9.38-10.38		12.48-13.48		14.16-15.16	

Data File	Sample#													
7M118593.D	CAL BNA@2PPM	35233	2.76	67155	5.94	257559	6.95	135828	8.40	268410	9.89	250500	12.97	275027	14.64
7M118594.D	BNA@10PPM	37757	2.76	72619	5.94	284437	6.94	150779	8.39	298511	9.88	283947	12.97	315737	14.64
7M118595.D	CAL BNA@196PPM	32007	2.76	58849	5.94	227739	6.95	116144	8.40	239007	9.89	212036	12.99	236262	14.65
7M118596.D	CAL BNA@20PPM	27470	2.76	55222	5.94	215050	6.95	111697	8.40	220018	9.89	207047	12.97	232722	14.65
7M118597.D	CAL BNA@10PPM	32386	2.76	64172	5.94	250846	6.95	132709	8.40	262733	9.89	247048	12.97	270114	14.64
7M118598.D	CAL BNA@160PPM	35996	2.76	66950	5.94	259240	6.95	133754	8.40	271793	9.89	248100	12.99	278387	14.65
7M118599.D	CAL BNA@120PPM	43698	2.76	84561	5.94	325292	6.95	167472	8.40	342325	9.89	313315	12.99	349463	14.65
7M118600.D	CAL BNA@80PPM	33653	2.75	68542	5.94	265995	6.94	136662	8.40	276631	9.88	257540	12.97	287825	14.64
7M118601.D	CAL BNA@0.5PPM	34256	2.76	68297	5.94	267099	6.94	143587	8.39	285413	9.88	273792	12.97	300037	14.65
7M118602.D	CAL BNA@50PPM	34838	2.76	68031	5.94	260912	6.94	134771	8.40	269855	9.88	253227	12.98	280515	14.66
7M118603.D	ICV BNA@50PPM	32732	2.76	66127	5.94	253336	6.96	130860	8.42	262971	9.91	246959	12.98	269681	14.67

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1121702 0099

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110403.D Method: EPA 8270E

Analysis Date/Time: 12/27/21 12:53

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	25923	2.71	49290	5.90	197383	6.91	97861	8.35	185258	9.83	170718	12.91	186514	14.55
Eval File Area Limit:	12962-51846		24645-98580		98692-394766		48930-195722		92629-370516		85359-341436		93257-373028	
Eval File Rt Limit:	2.21-3.21		5.4-6.4		6.41-7.41		7.85-8.85		9.33-10.33		12.41-13.41		14.05-15.05	

Data File	Sample#													
9M110402.D	BNA@50PPM	22687	2.71	42849	5.90	175271	6.91	86435	8.35	162891	9.84	152900	12.91	163776	14.55
9M110404.D	AD27999-001(R)	25602	2.68	40866	5.90	164695	6.91	81892	8.36	158299	9.84	142602	12.91	153687	14.55
9M110405.D	SMB96003	24398	2.68	42024	5.90	173858	6.91	84278	8.35	158509	9.83	151176	12.90	165446	14.54
9M110406.D	SMB96002	23998	2.69	39943	5.90	163750	6.91	81338	8.35	154625	9.83	148990	12.90	150233	14.54
9M110407.D	AD27963-004(3X)(R)	26601	2.71	46805	5.91	189033	6.91	94429	8.35	175725	9.83	137906	12.90	142236	14.55
9M110408.D	OMB96004	22951	2.71	47184	5.90	188551	6.91	92545	8.35	164247	9.83	144699	12.90	138394	14.55
9M110409.D	AD28031-001	22240	2.71	43395	5.90	175920	6.91	86895	8.35	165553	9.83	149697	12.90	157338	14.54
9M110410.D	AD28031-001(MS)	25640	2.71	50595	5.90	198738	6.91	93480	8.35	158056	9.83	149642	12.91	166867	14.55
9M110411.D	AD28031-001(MSD)	21678	2.71	43720	5.90	172448	6.91	77649	8.35	129329	9.83	122994	12.91	123965	14.54
9M110412.D	AD27961-003	25781	2.69	48454	5.90	195503	6.91	95056	8.35	178713	9.83	148038	12.90	153352	14.54
9M110413.D	AD27961-003(MS)	25705	2.69	48014	5.90	189789	6.91	91757	8.35	167631	9.83	144430	12.90	147352	14.55
9M110414.D	AD27961-003(MSD)	23818	2.68	45870	5.90	181585	6.91	86607	8.35	157624	9.83	134562	12.90	138462	14.55
9M110415.D	AD27961-001	22309	2.68	44601	5.90	179218	6.91	87527	8.35	162812	9.83	136124	12.90	135772	14.54
9M110416.D	AD27961-002	21319	2.68	42864	5.90	173326	6.91	83031	8.35	149446	9.83	121551	12.90	125552	14.54
9M110417.D	AD28050-003	22317	2.69	43670	5.90	174691	6.91	84373	8.35	155887	9.83	128111	12.90	131118	14.54
9M110418.D	AD27939-001	22551	2.70	34616	5.91	147823	6.92	104843	8.38	145384	9.87	112828	12.91	123529	14.55
9M110419.D	AD27939-001(MS)	26100	2.70	41161	5.90	174418	6.92	127046	8.38	181842	9.87	134363	12.92	148075	14.55
9M110420.D	AD27939-001(MSD)	22775	2.70	38012	5.90	149152	6.92	118592	8.38	144318	9.87	114468	12.91	127081	14.55
9M110421.D	AD27919-011	24110	2.69	45155	5.90	182822	6.91	88227	8.35	159744	9.83	134182	12.90	136426	14.55
9M110422.D	AD27958-003	20465	2.70	37554	5.90	140933	6.91	121717	8.38	136728	9.87	112747	12.91	120606	14.54
9M110423.D	AD27895-004	25846	2.70	47663	5.90	165064	6.91	116464	8.37	166198	9.86	131436	12.91	147491	14.55
9M110424.D	AD27882-008	21048	2.70	40201	5.90	151968	6.91	76562	8.35	143629	9.83	114962	12.90	120095	14.55
9M110425.D	AD27882-014	21706	2.70	42411	5.90	174201	6.91	80049	8.35	145314	9.83	115280	12.90	122118	14.55
9M110426.D	AD27919-010(3X)	28053	2.72	47009	5.90	200786	6.91	97317	8.35	169030	9.83	141208	12.90	146123	14.54
9M110427.D	AD27919-009(10X)	25008	2.71	45155	5.90	193449	6.91	84742	8.35	142252	9.83	138223	12.90	131612	14.55
9M110428.D	AD27910-001(5X)	26282	2.71	48029	5.90	187881	6.91	84008	8.35	143485	9.83	129771	12.91	140183	14.55
9M110429.D	AD27910-002(5X)	26213	2.71	46658	5.90	198506	6.91	83605	8.35	147659	9.83	123546	12.90	133786	14.55
9M110430.D	AD27910-004(5X)	25254	2.71	45190	5.90	179626	6.91	85252	8.35	139570	9.83	121703	12.91	131426	14.55
9M110431.D	AD27910-005(5X)	25457	2.71	46803	5.90	180911	6.91	81034	8.35	136492	9.83	121008	12.91	133579	14.55
9M110432.D	AD27910-017(10X)	24633	2.72	45047	5.90	190826	6.91	93113	8.35	148700	9.83	122533	12.90	128502	14.55
9M110433.D	AD27910-018(20X)	24582	2.72	47163	5.90	193671	6.91	78978	8.35	126486	9.84	119300	12.91	130964	14.55

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1121702 0100

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M118719.D Method: EPA 8270E

Analysis Date/Time: 12/27/21 12:30

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	61314	2.76	114493	5.94	435458	6.95	222065	8.42	435326	9.90	402117	12.99	452258	14.68
Eval File Area Limit:	30657-122628		57246-228986		217729-870916		111032-444130		217663-870652		201058-804234		226129-904516	
Eval File Rt Limit:	2.26-3.26		5.44-6.44		6.45-7.45		7.92-8.92		9.4-10.4		12.49-13.49		14.18-15.18	

Data File	Sample#													
7M118720.D	SMB96002(MS)	58614	2.73	94650	5.94	352814	6.96	177931	8.43	346181	9.91	329153	12.99	358183	14.67
7M118721.D	SMB96003(MS)	53379	2.73	92355	5.93	347489	6.94	175867	8.40	345853	9.88	327800	12.98	362979	14.64
7M118722.D	OMB96004(MS)	53895	2.76	98916	5.94	373480	6.94	191148	8.40	370152	9.88	359029	12.97	398776	14.64
7M118723.D	OMB96004	52604	2.76	97845	5.93	378968	6.93	196560	8.39	379461	9.88	355171	12.97	392138	14.64
7M118724.D	SMB96002	54032	2.73	94623	5.93	362949	6.94	186260	8.40	358178	9.89	330761	12.97	360164	14.64
7M118725.D	SMB96003	52763	2.73	94428	5.93	364601	6.94	186857	8.39	369829	9.88	340183	12.97	370594	14.64
7M118726.D	AD28050-001	61107	2.73	108953	5.93	308375	6.94	148473	8.40	348820	9.89	376233	12.97	418038	14.64
7M118727.D	AD28050-002	59092	2.73	113873	5.93	432670	6.94	222693	8.39	429579	9.88	396197	12.97	431212	14.64
7M118728.D	AD28017-001	61686	2.73	114233	5.94	437195	6.94	222712	8.40	420138	9.89	386457	12.98	410185	14.65
7M118729.D	AD28017-002	55000	2.73	104482	5.93	400634	6.94	204023	8.39	392671	9.88	355193	12.97	384642	14.64
7M118730.D	AD28017-003	60588	2.74	113474	5.93	437716	6.94	221253	8.39	419780	9.88	375788	12.97	407604	14.64
7M118731.D	AD28017-004	61738	2.74	117394	5.93	445510	6.94	226316	8.40	419243	9.88	387396	12.97	412555	14.64
7M118732.D	AD28032-001	59928	2.73	113028	5.93	430641	6.94	212216	8.39	403943	9.88	355691	12.98	375146	14.64
7M118733.D	AD27919-002	54515	2.75	100580	5.93	428443	6.93	205079	8.39	326548	9.89	327736	12.97	347534	14.64

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27961-001
Client Id: SB-016 SS
Data File: 7G56280.D
Analysis Date: 12/30/21 08:37
Date Rec/Extracted: 12/17/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	73	U				

Worksheet #: 623591

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56280.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:37
Operator : ABM/AH
Sample : AD27961-001
Misc : S,TPH
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:15:44 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

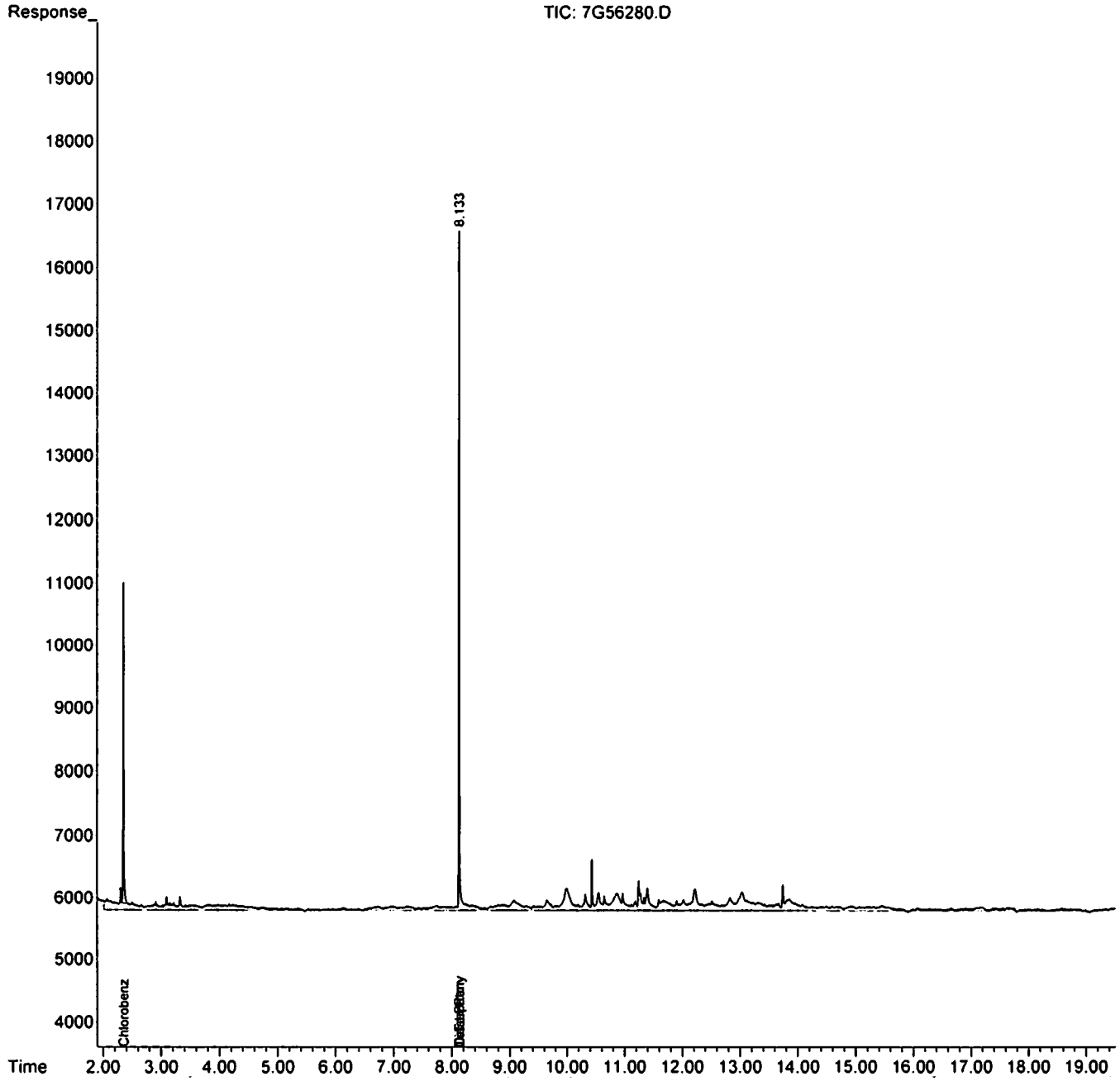
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.352	37196	11.115		
23)	O-Terphenyl	8.133	82555	13.446		
24)d	Diesel Range Organics(T	8.133f	420278	78.798		m
25)t	Total Petroleum Hydroca	8.133f	821428	157.556		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56280.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:37
Operator : ABM/AH
Sample : AD27961-001
Misc : S,TPH
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:15:44 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27961-002
Client Id: SB-017 SS
Data File: 7G56281.D
Analysis Date: 12/30/21 09:07
Date Rec/Extracted: 12/17/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 81

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**74**	**120**				

Worksheet #: 623591

Total Target Concentration 120

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56281.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:07
Operator : ABM/AH
Sample : AD27961-002
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:18:18 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

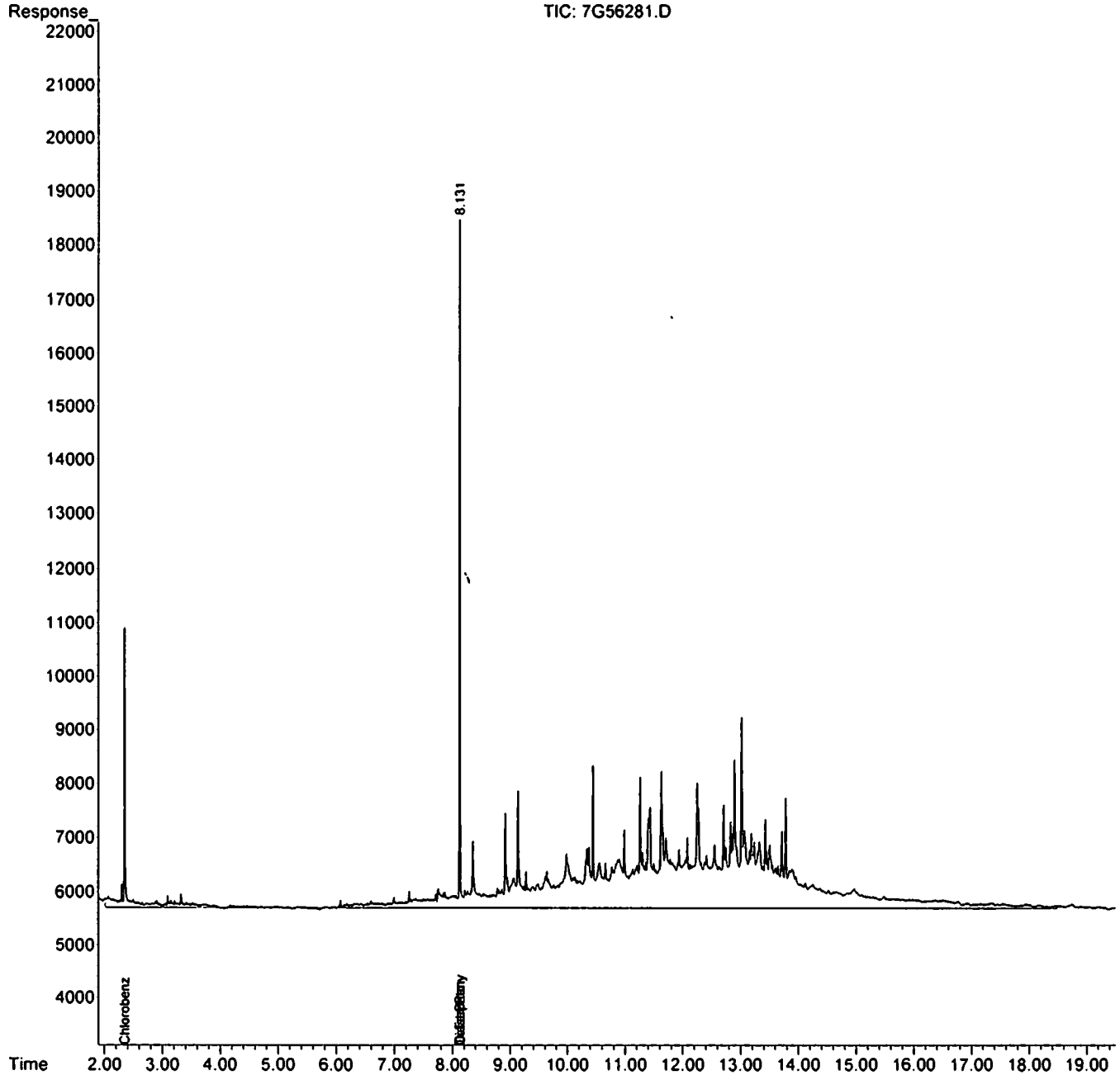
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.350	37743	11.278		
23)	O-Terphenyl	8.131	93885	15.291		
24)d	Diesel Range Organics(T	8.131f	1281331	240.238		m
25)t	Total Petroleum Hydroca	8.131f	3314327	635.715		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56281.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:07
Operator : ABM/AH
Sample : AD27961-002
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:18:18 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27961-003
Client Id: SB-018 SS
Data File: 7G56282.D
Analysis Date: 12/30/21 09:37
Date Rec/Extracted: 12/17/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	65	U				

Worksheet #: 623591

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56282.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:37
Operator : ABM/AH
Sample : AD27961-003
Misc : S,TPH
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:21:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

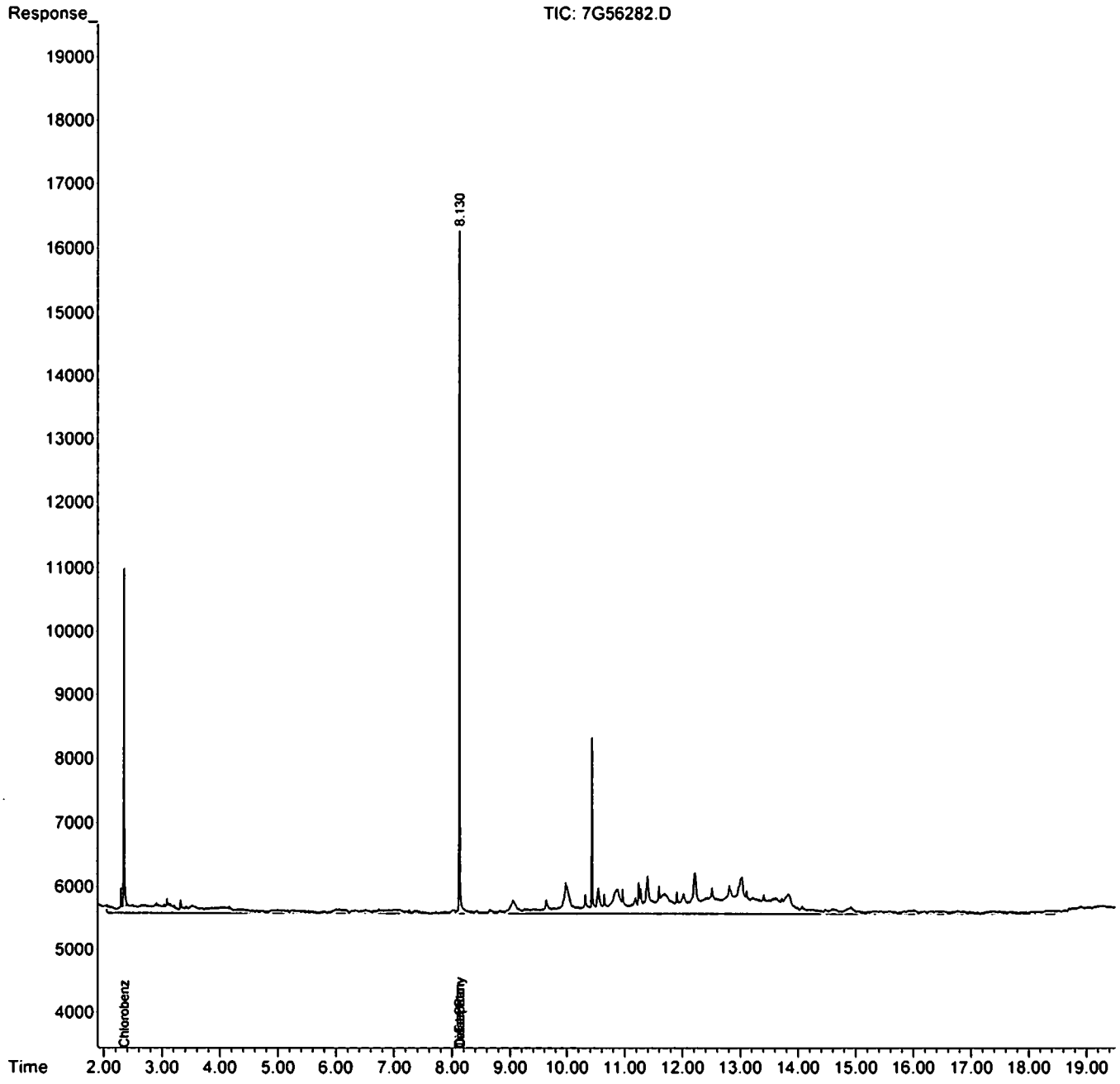
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.349	38085	11.380		
23)	O-Terphenyl	8.131	83179	13.547		
24)d	Diesel Range Organics(T	8.130f	448608	84.110		m
25)t	Total Petroleum Hydroca	8.130f	1067682	204.790		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56282.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:37
Operator : ABM/AH
Sample : AD27961-003
Misc : S,TPH
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:21:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB96022
Client Id:
Data File: 7G56284.D
Analysis Date: 12/30/21 10:37
Date Rec/Extracted: NA-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 623591

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path. : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

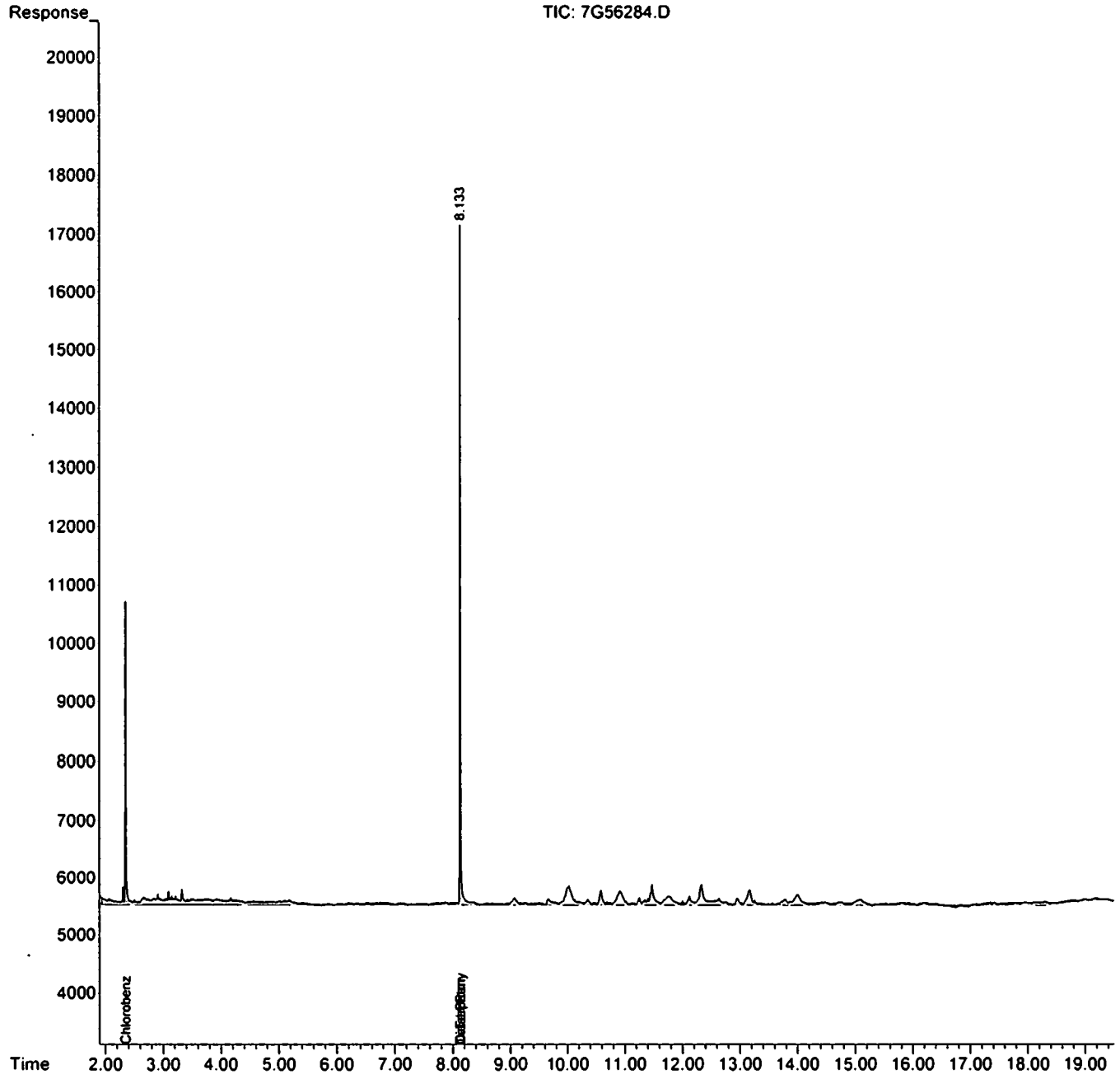
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.350	37775	11.288		
23)	O-Terphenyl	8.133	93677	15.257		
24)d	Diesel Range Organics(T	8.133f	312492	58.590		m
25)t	Total Petroleum Hydroca	8.133f	592515	113.649		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

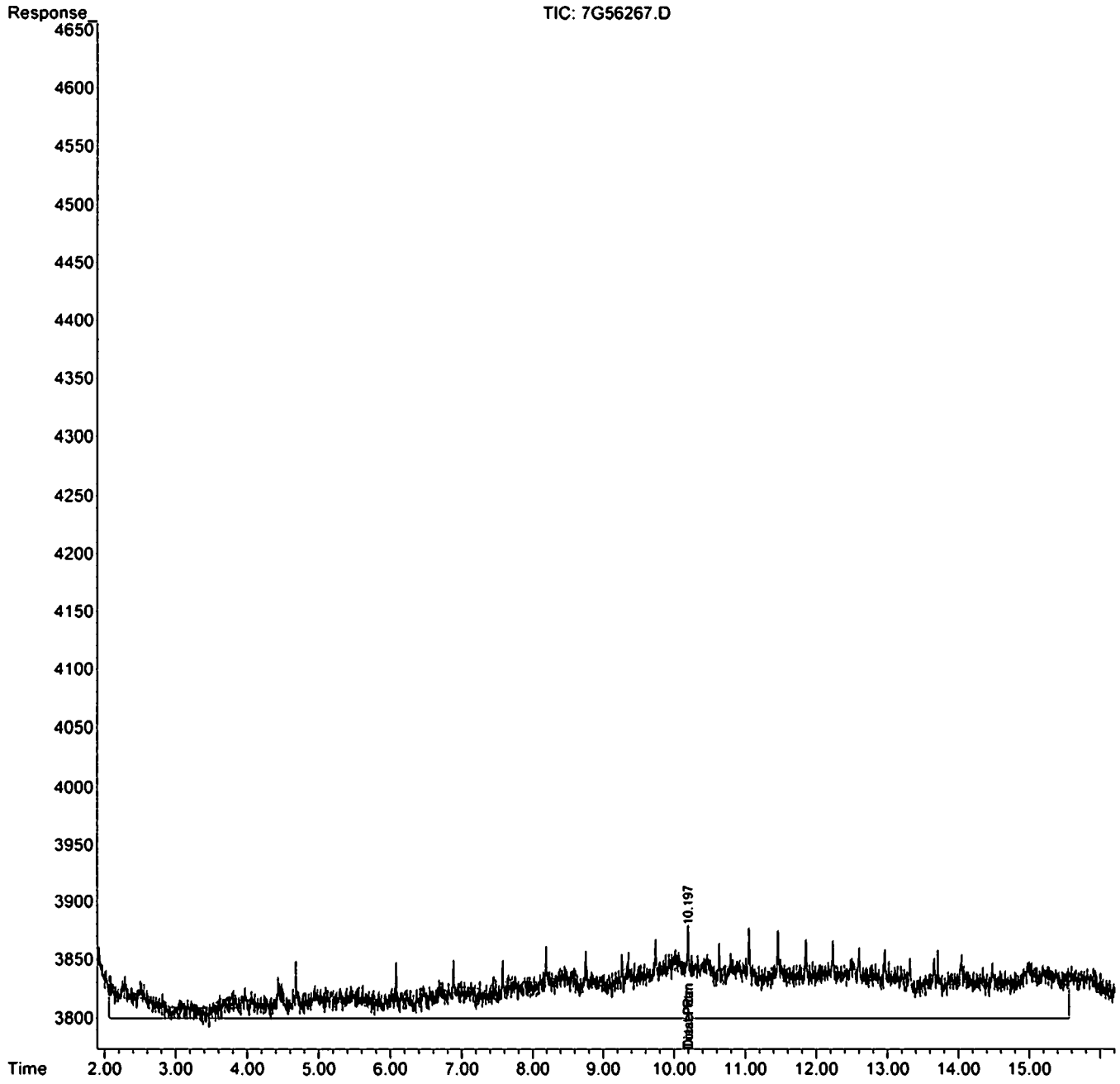
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)	Chlorobenzene	0.000	0	N.D.		
22)	O-Terphenyl	0.000	0	N.D.		
23)d	Diesel Range Organics(T	10.197f	124364	21.689		m
24)t	Total Petroleum Hydroca	10.197f	220862	39.012		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

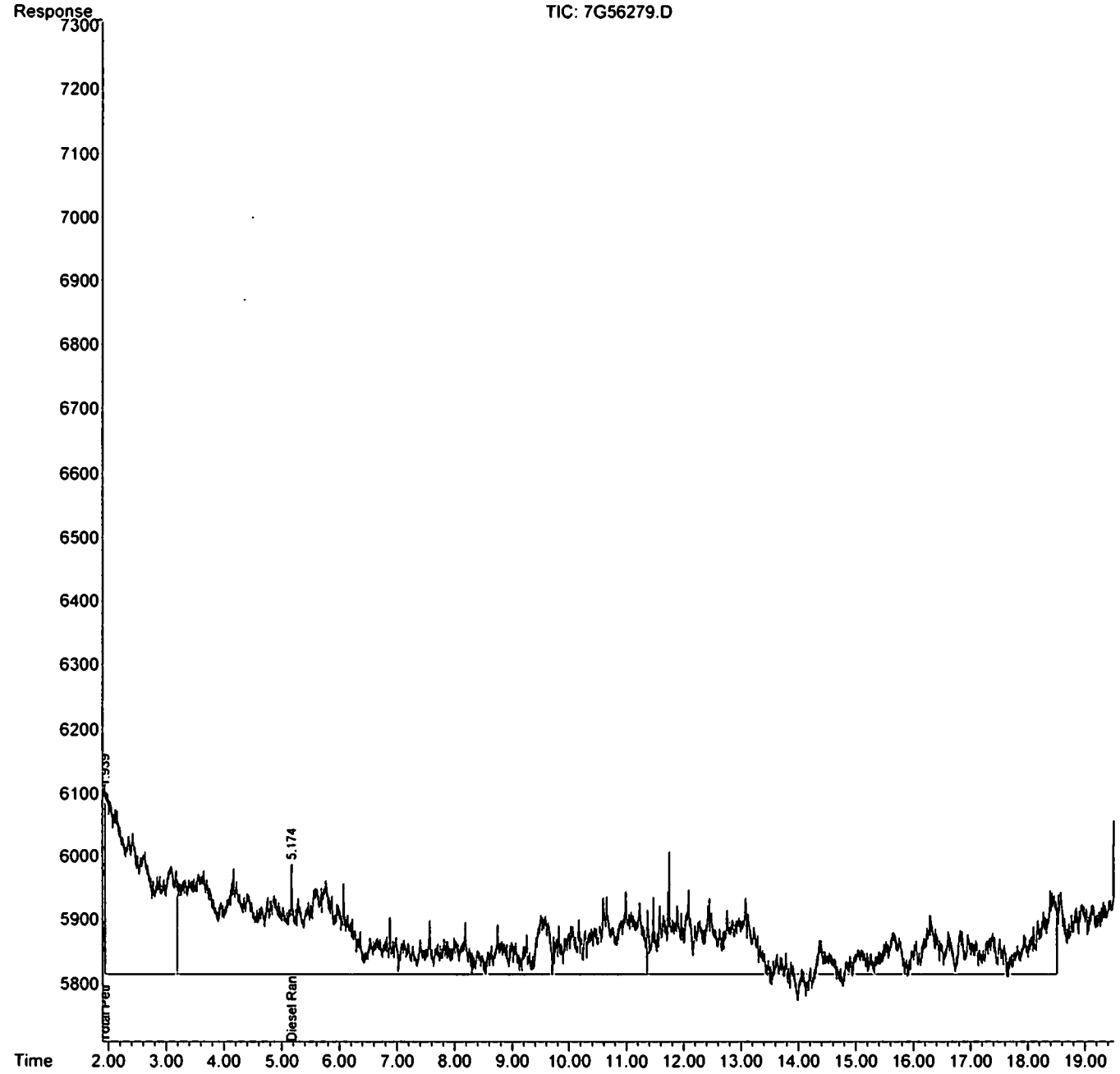
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.174	335766	62.953		m
25)t	Total Petroleum Hydroca	1.939	651446	124.953		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56272.D	AD27961-003(MS)	S	12/29/21 13:00	1		55	75				
7G56273.D	AD27961-003(MSD)	S	12/29/21 13:26	1		43	74				
7G56284.D	SMB96022	S	12/30/21 10:37	1		56	76				
7G56280.D	AD27961-001	S	12/30/21 08:37	1		56	67				
7G56281.D	AD27961-002	S	12/30/21 09:07	1		56	76				
7G56282.D	AD27961-003	S	12/30/21 09:37	1		57	68				
7G56269.D	SMB96022(MS)	S	12/29/21 11:42	1		48	78				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56269.D	SMB96022(MS)	12/29/2021 11:42:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1871.97	0	3000	62	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2056.08	0	3000	69	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1683.27	0	3000	56	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Duplicate(If applicable):	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	1683.27	2056.08	20	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB96022
Blank Data File: 7G56284.D
Matrix: Soil

Blank Analysis Date: 12/30/21 10:37
Blank Extraction Date: 12/28/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27961-001	7G56280.D	12/30/21 08:37
AD27961-002	7G56281.D	12/30/21 09:07
AD27961-003	7G56282.D	12/30/21 09:37
AD27961-003(MSD	7G56273.D	12/29/21 13:26
AD27961-003(MS)	7G56272.D	12/29/21 13:00
SMB96022(MS)	7G56269.D	12/29/21 11:42

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56265.D	INST BLK	12/29/21 09:56	Soil					
7G56266.D	CAL TPH@20PPM	12/29/21 10:05	Soil	7G56266.	8.1454	0		
7G56267.D	INST BLK	12/29/21 10:49	Soil	7G56266.	0.0000	200		
7G56268.D	SMB96022	12/29/21 11:16	Soil	7G56266.	8.1357	0.1192		
7G56269.D	SMB96022(MS)	12/29/21 11:42	Soil	7G56266.	8.1291	0.2003		
7G56270.D	AD28032-001	12/29/21 12:07	Soil	7G56266.	8.1340	0.1401		
7G56271.D	AD28032-003	12/29/21 12:34	Soil	7G56266.	8.1338	0.1425		
7G56272.D	AD27961-003(MS)	12/29/21 13:00	Soil	7G56266.	8.1274	0.2212		
7G56273.D	AD27961-003(MSD)	12/29/21 13:26	Soil	7G56266.	8.1275	0.22		
7G56274.D	CAL TPH@20PPM	12/29/21 13:52	Soil	7G56266.	8.1359	0.1167		
7G56275.D	AD28012-001(FP)	12/29/21 15:00	Soil	7G56274.	0.0000	200		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56277.D	INST BLK	12/30/21 06:47	Soil					
7G56278.D	CAL TPH@20PPM	12/30/21 07:38	Soil	7G56278.	8.1384	0		
7G56279.D	INST BLK	12/30/21 08:07	Soil	7G56278.	0.0000	200		
7G56280.D	AD27961-001	12/30/21 08:37	Soil	7G56278.	8.1329	0.0676		
7G56281.D	AD27961-002	12/30/21 09:07	Soil	7G56278.	8.1311	0.0897		
7G56282.D	AD27961-003	12/30/21 09:37	Soil	7G56278.	8.1310	0.091		
7G56283.D	AD28000-001	12/30/21 10:07	Soil	7G56278.	8.1317	0.0824		
7G56284.D	SMB96022	12/30/21 10:37	Soil	7G56278.	8.1327	0.0701		
7G56285.D	CAL TPH@20PPM	12/30/21 11:09	Soil	7G56278.	8.1361	0.0283		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1121702 0127

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Ava	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1121702 0128

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

				7G56266.D			7G56274.D			7G56278.D			7G56285.D			
Data File:				8015			8015			8015			8015			
Method:				CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			
Calibration Name:				12/29/21 10:05			12/29/21 13:52			12/30/21 07:38			12/30/21 11:09			
Calibration Date/Time				Conc			Conc			Conc			Conc			Conc
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc Exp %Diff
C8	20	1	0	18	20	10.0	19.84	20	0.8	19.16	20	4.2	19.26	20	3.7	
C9	20	1	0	18.29	20	8.5	20.12	20	0.6	19.46	20	2.7	19.63	20	1.9	
C10	20	1	0	18.24	20	8.8	20.11	20	0.6	19.17	20	4.2	19.73	20	1.4	
C12	20	1	0	16.15	20	19.3	20.93	20	4.7	16.9	20	15.5	17.03	20	14.9	
C14	20	1	0	20.2	20	1.0	22.2	20	11.0	20.96	20	4.8	22.13	20	10.7	
C16	20	1	0	21.28	20	6.4	22.83	20	14.2	22.18	20	10.9	22.49	20	12.5	
C17	20	1	0	15.62	20	21.9*	17.02	20	14.9	18.12	20	9.4	18.78	20	6.1	
Pristane	20	1	0	29.08	20	45.4*	32.47	20	62.4*	27.82	20	39.1*	25.88	20	29.4*	
C18	20	1	0	22.2	20	11.0	23.78	20	18.9	21.99	20	9.9	22.89	20	14.5	
Phytane	20	1	0	22.85	20	14.3	24.49	20	22.5*	22.12	20	10.6	23.2	20	16.0	
C20	20	1	0	21.57	20	7.8	23.01	20	15.1	23.83	20	19.2	24.87	20	24.4*	
C22	20	1	0	21.9	20	9.5	23.26	20	16.3	23.67	20	18.4	24.64	20	23.2*	
C24	20	1	0	22.15	20	10.8	23.3	20	16.5	23.65	20	18.3	24.69	20	23.5*	
C26	20	1	0	22.2	20	11.0	23.51	20	17.6	23.89	20	19.5	24.86	20	24.3*	
C28	20	1	0	22.47	20	12.4	23.72	20	18.6	24.54	20	22.7*	25.01	20	25.1*	
C30	20	1	0	22.41	20	12.1	23.66	20	18.3	24.55	20	22.8*	25.51	20	27.6*	
C32	20	1	0	22.24	20	11.2	23.48	20	17.4	25.17	20	25.9*	25.86	20	29.3*	
C34	20	1	0	20.79	20	4.0	22.14	20	10.7	24.04	20	20.2	25.07	20	25.4*	
C36	20	1	0	19.4	20	3.0	20.6	20	3.0	22.19	20	11.0	23.36	20	16.8	
C40	20	1	0	14.17	20	29.2*	17.44	20	12.8	17.41	20	13.0	18.89	20	5.6	
Chlorobenzene	20	1	0	19.45	20	2.7	21.16	20	5.8	20.61	20	3.1	20.98	20	4.9	
O-Terphenyl	20	1	0	22.53	20	12.7	23.78	20	18.9	24.6	20	23.0*	25.43	20	27.2*	
Average Difference	20	1	0			12.4			14.6			17.0			17.9	

Flags/Notes: ** - Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27961-001
Client Id: SB-016 SS
Data File: 7G56280.D
Analysis Date: 12/30/21 08:37
Date Rec/Extracted: 12/17/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	73	U				

Worksheet #: 623597

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56280.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:37
Operator : ABM/AH
Sample : AD27961-001
Misc : S,TPH
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:15:44 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

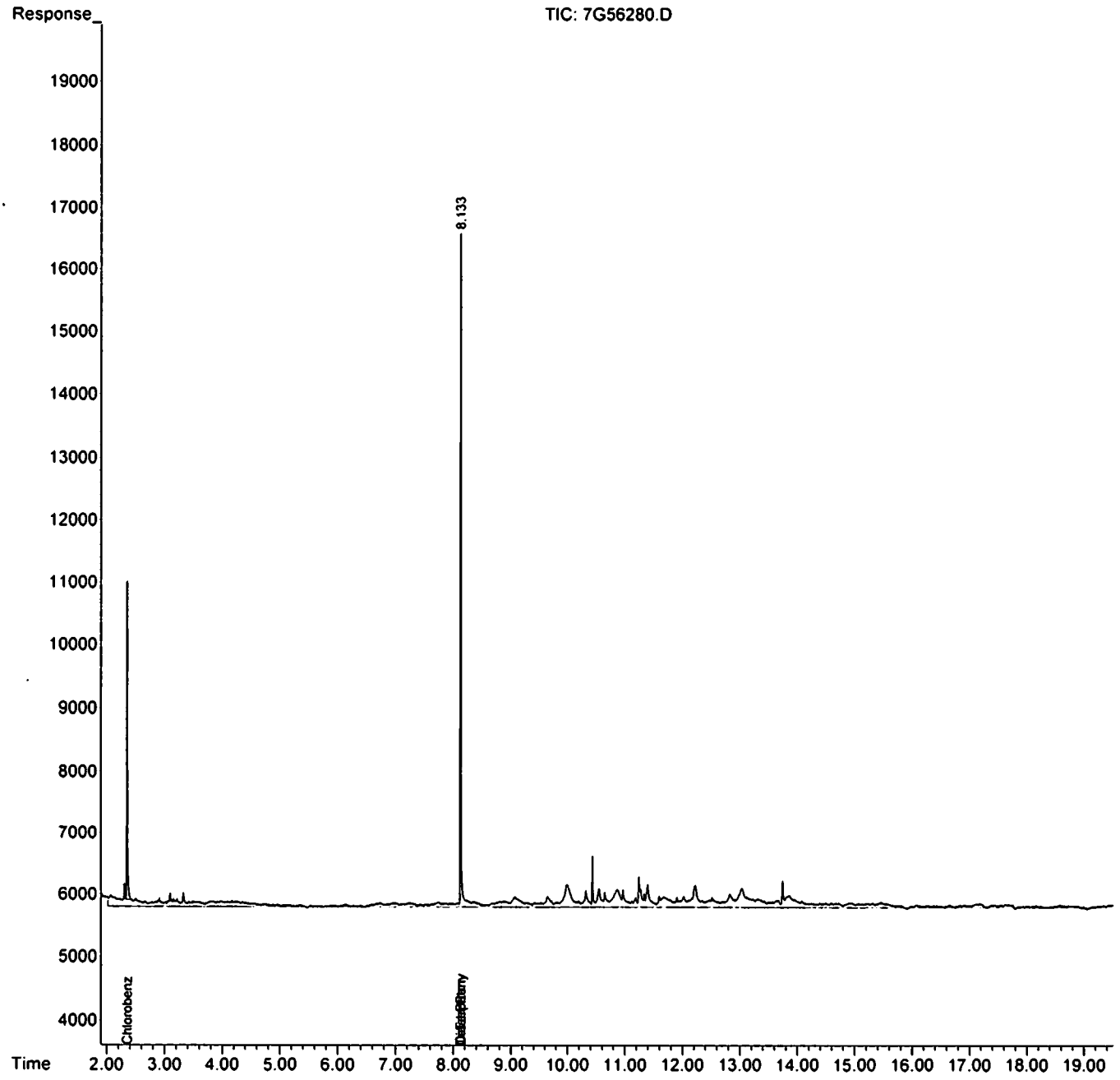
	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	mt C8	0.000	0	N.D.		
2)	mte C9	0.000	0	N.D.		
3)	mdte C10	0.000	0	N.D.		
4)	mdte C12	0.000	0	N.D.		
5)	mdte C14	0.000	0	N.D.		
6)	dte C16	0.000	0	N.D.		
7)	dte C17	0.000	0	N.D.		
8)	dte Pristane	0.000	0	N.D.		
9)	dte C18	0.000	0	N.D.		
10)	dte Phytane	0.000	0	N.D.		
11)	dte C20	0.000	0	N.D.		
12)	dte C22	0.000	0	N.D.		
13)	dte C24	0.000	0	N.D.		
14)	dte C26	0.000	0	N.D.		d
15)	dte C28	0.000	0	N.D.		d
16)	te C30	0.000	0	N.D.		d
17)	te C32	0.000	0	N.D.		
18)	te C34	0.000	0	N.D.		
19)	te C36	0.000	0	N.D.		
20)	t C40	0.000	0	N.D.		
21)	t C44	0.000	0	N.D.		
22)	Chlorobenzene	2.352	37196	11.115		
23)	O-Terphenyl	8.133	82555	13.446		
24)	d Diesel Range Organics(T	8.133f	420278	78.798		m
25)	t Total Petroleum Hydroca	8.133f	821428	157.556		m
26)	e Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)	m Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)	m Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56280.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:37
Operator : ABM/AH
Sample : AD27961-001
Misc : S,TPH
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:15:44 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27961-002
Client Id: SB-017 SS
Data File: 7G56281.D
Analysis Date: 12/30/21 09:07
Date Rec/Extracted: 12/17/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 81

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	74	U				

Worksheet #: 623597

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56281.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:07
Operator : ABM/AH
Sample : AD27961-002
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:18:18 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

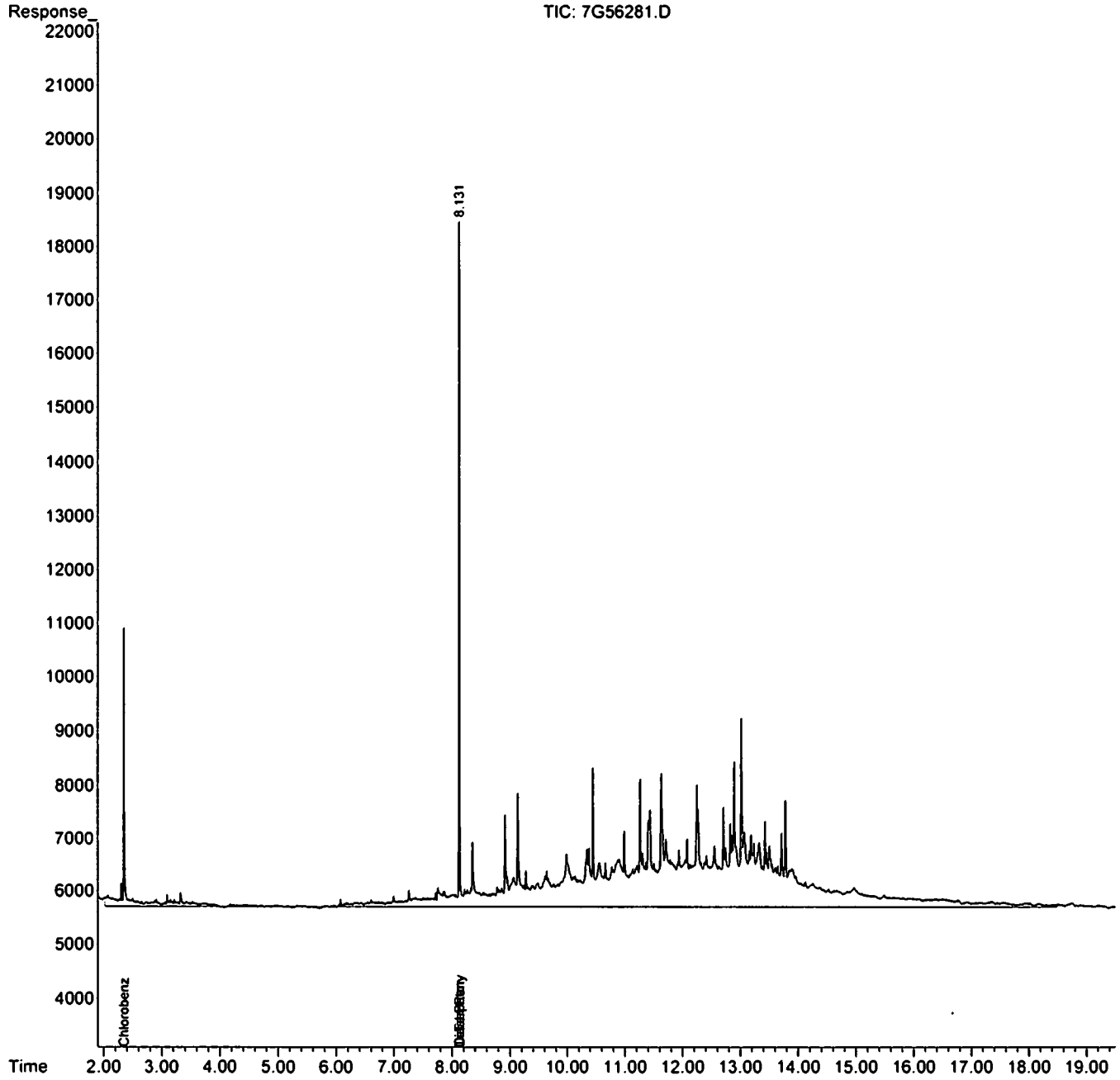
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.350	37743	11.278		
23)	O-Terphenyl	8.131	93885	15.291		
24)d	Diesel Range Organics(T	8.131f	1281331	240.238		m
25)t	Total Petroleum Hydroca	8.131f	3314327	635.715		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56281.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:07
Operator : ABM/AH
Sample : AD27961-002
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:18:18 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD27961-003
Client Id: SB-018 SS
Data File: 7G56282.D
Analysis Date: 12/30/21 09:37
Date Rec/Extracted: 12/17/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	65	U				

Worksheet #: 623597

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56282.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:37
Operator : ABM/AH
Sample : AD27961-003
Misc : S,TPH
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:21:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

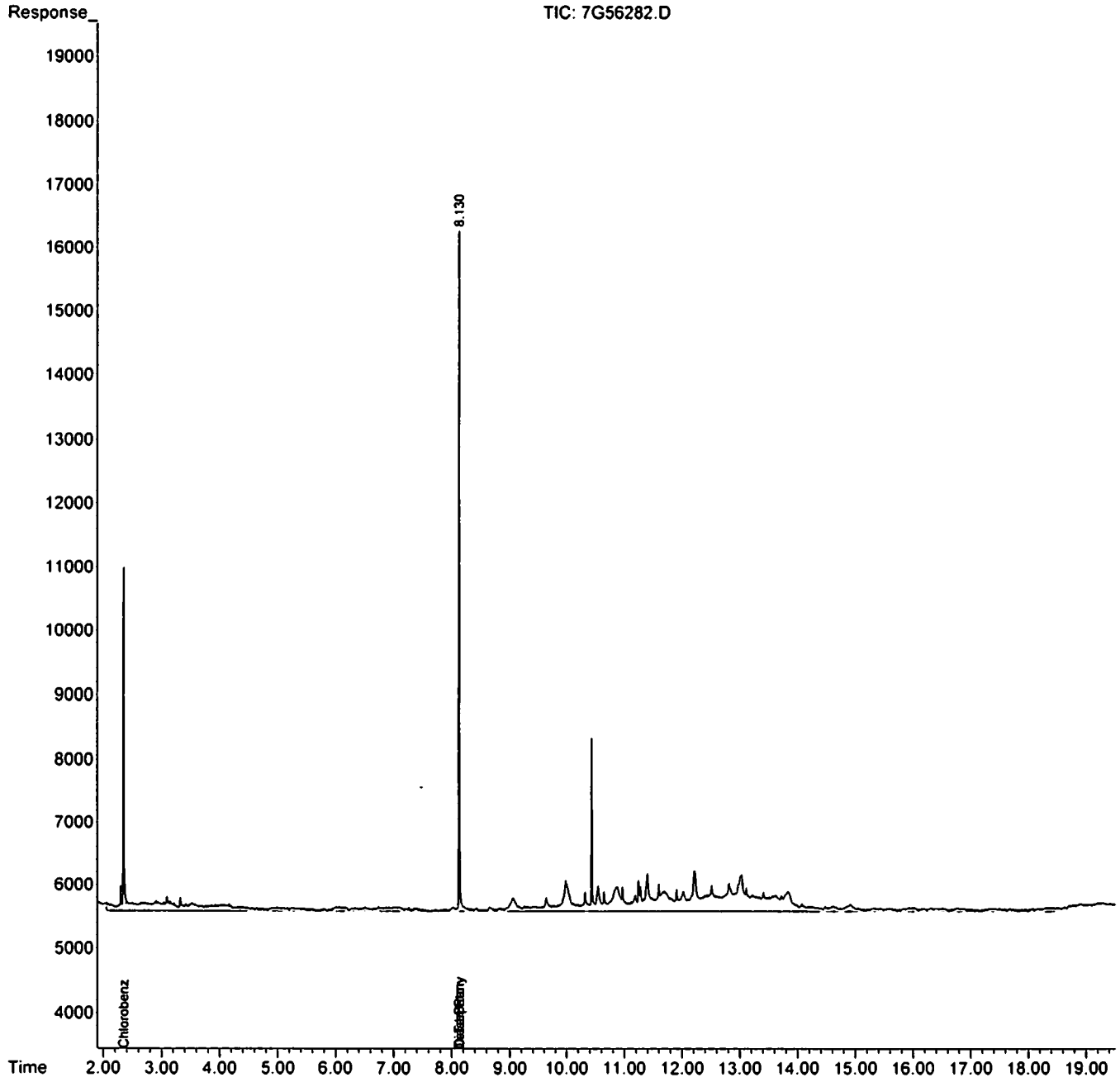
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.349	38085	11.380		
23)	O-Terphenyl	8.131	83179	13.547		
24)d	Diesel Range Organics(T	8.130f	448608	84.110		m
25)t	Total Petroleum Hydroca	8.130f	1067682	204.790		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56282.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 9:37
Operator : ABM/AH
Sample : AD27961-003
Misc : S,TPH
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:21:02 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB96022
Client Id:
Data File: 7G56284.D
Analysis Date: 12/30/21 10:37
Date Rec/Extracted: NA-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 623597

Total Target Concentration 0

ColumnID:(^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

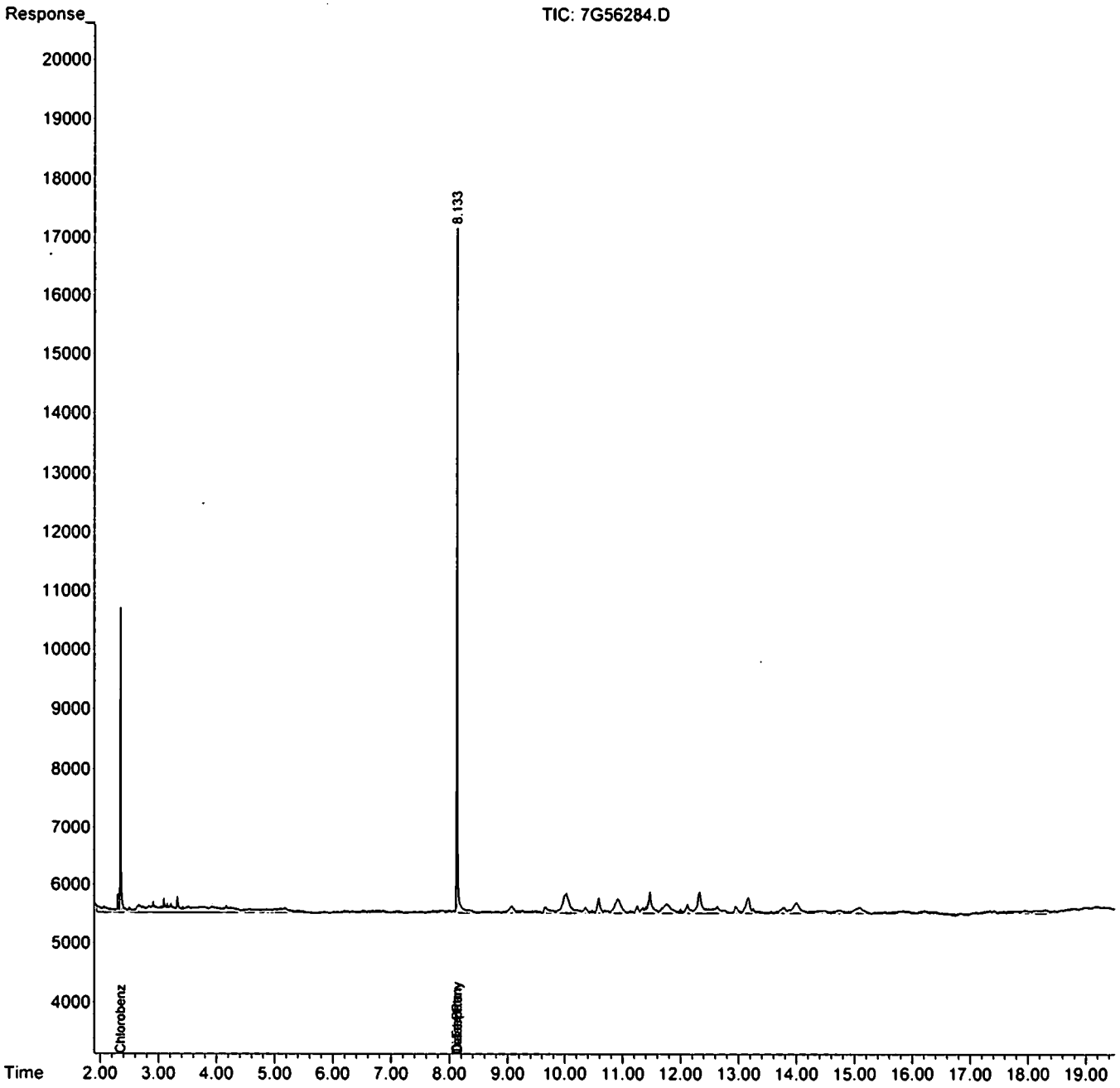
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.350	37775	11.288		
23)	O-Terphenyl	8.133	93677	15.257		
24)d	Diesel Range Organics(T	8.133f	312492	58.590		m
25)t	Total Petroleum Hydroca	8.133f	592515	113.649		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

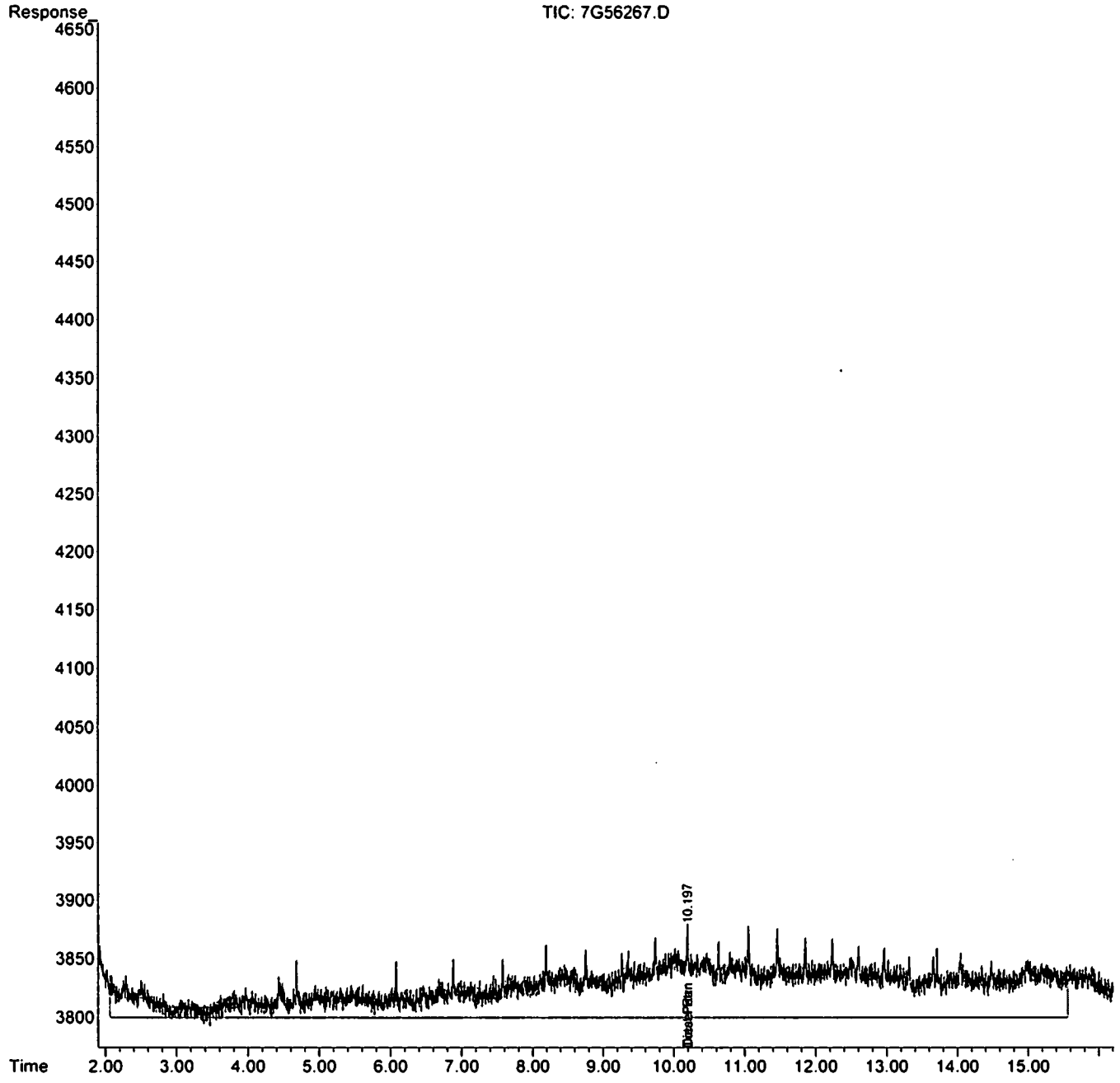
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)	Chlorobenzene	0.000	0	N.D.		
22)	O-Terphenyl	0.000	0	N.D.		
23)d	Diesel Range Organics(T	10.197f	124364	21.689		m
24)t	Total Petroleum Hydroca	10.197f	220862	39.012		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

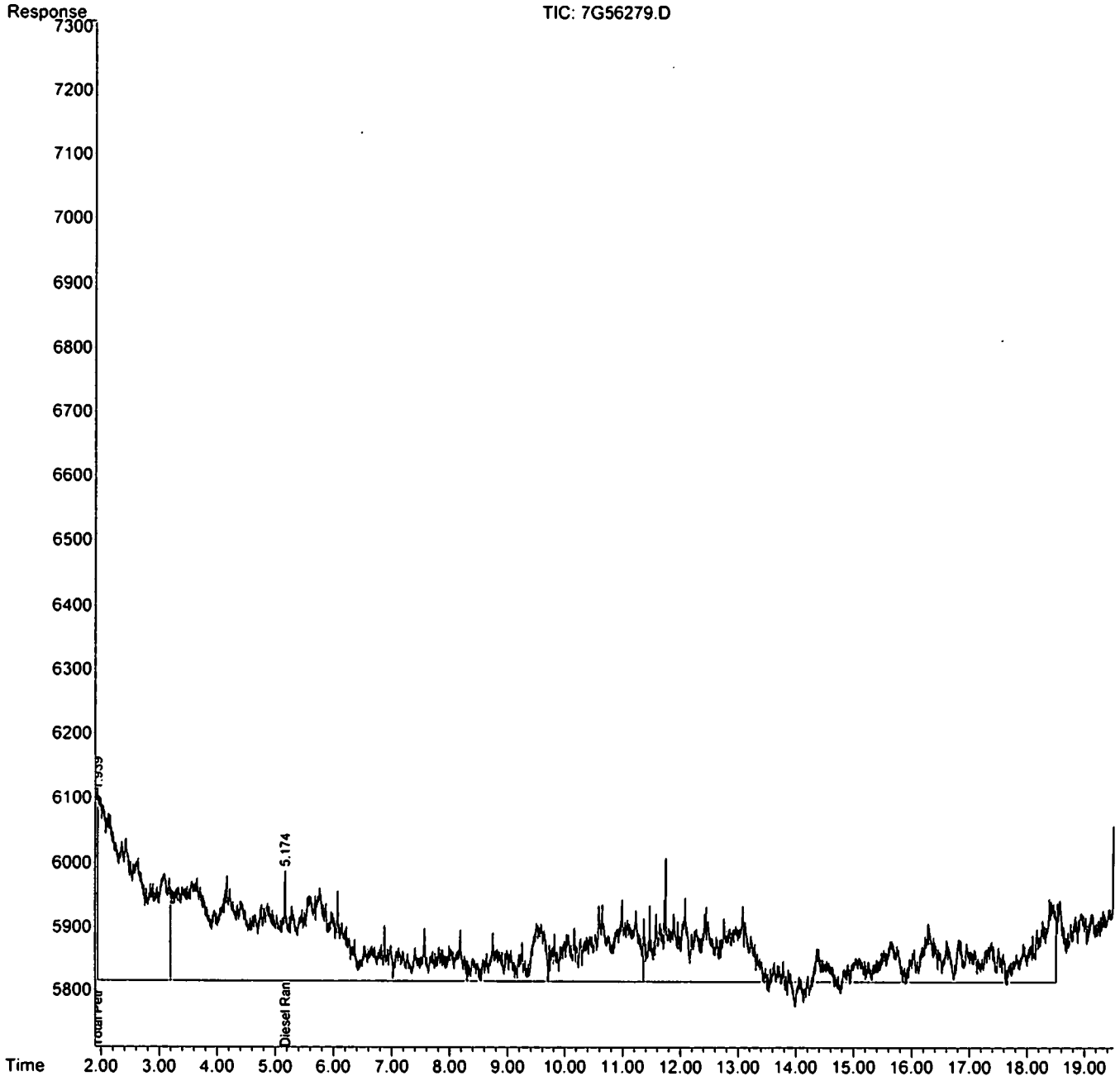
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.174	335766	62.953		m
25)t	Total Petroleum Hydroca	1.939	651446	124.953		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56284.D	SMB96022	S	12/30/21 10:37	1		56	76				
7G56280.D	AD27961-001	S	12/30/21 08:37	1		56	67				
7G56281.D	AD27961-002	S	12/30/21 09:07	1		56	76				
7G56282.D	AD27961-003	S	12/30/21 09:37	1		57	68				
7G56269.D	SMB96022(MS)	S	12/29/21 11:42	1		48	78				
7G56272.D	AD27961-003(MS)	S	12/29/21 13:00	1		55	75				
7G56273.D	AD27961-003(MSD)	S	12/29/21 13:26	1		43	74				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56269.D	SMB96022(MS)	12/29/2021 11:42:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1871.97**	**0**	**3000**	**62**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2056.08**	**0**	**3000**	**69**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1683.27**	**0**	**3000**	**56**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Duplicate(If applicable):	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**1683.27**	**2056.08**	**20**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB96022
Blank Data File: 7G56284.D
Matrix: Soil

Blank Analysis Date: 12/30/21 10:37
Blank Extraction Date: 12/28/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27961-001	7G56280.D	12/30/21 08:37
AD27961-002	7G56281.D	12/30/21 09:07
AD27961-003	7G56282.D	12/30/21 09:37
AD27961-003(MSD	7G56273.D	12/29/21 13:26
AD27961-003(MS)	7G56272.D	12/29/21 13:00
SMB96022(MS)	7G56269.D	12/29/21 11:42

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56265.D	INST BLK	12/29/21 09:56	Soil					
7G56266.D	CAL TPH@20PPM	12/29/21 10:05	Soil	7G56266.	8.1454	0		
7G56267.D	INST BLK	12/29/21 10:49	Soil	7G56266.	0.0000	200		
7G56268.D	SMB96022	12/29/21 11:16	Soil	7G56266.	8.1357	0.1192		
7G56269.D	SMB96022(MS)	12/29/21 11:42	Soil	7G56266.	8.1291	0.2003		
7G56270.D	AD28032-001	12/29/21 12:07	Soil	7G56266.	8.1340	0.1401		
7G56271.D	AD28032-003	12/29/21 12:34	Soil	7G56266.	8.1338	0.1425		
7G56272.D	AD27961-003(MS)	12/29/21 13:00	Soil	7G56266.	8.1274	0.2212		
7G56273.D	AD27961-003(MSD)	12/29/21 13:26	Soil	7G56266.	8.1275	0.22		
7G56274.D	CAL TPH@20PPM	12/29/21 13:52	Soil	7G56266.	8.1359	0.1167		
7G56275.D	AD28012-001(FP)	12/29/21 15:00	Soil	7G56274.	0.0000	200		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56277.D	INST BLK	12/30/21 06:47	Soil					
7G56278.D	CAL TPH@20PPM	12/30/21 07:38	Soil	7G56278.	8.1384	0		
7G56279.D	INST BLK	12/30/21 08:07	Soil	7G56278.	0.0000	200		
7G56280.D	AD27961-001	12/30/21 08:37	Soil	7G56278.	8.1329	0.0676		
7G56281.D	AD27961-002	12/30/21 09:07	Soil	7G56278.	8.1311	0.0897		
7G56282.D	AD27961-003	12/30/21 09:37	Soil	7G56278.	8.1310	0.091		
7G56283.D	AD28000-001	12/30/21 10:07	Soil	7G56278.	8.1317	0.0824		
7G56284.D	SMB96022	12/30/21 10:37	Soil	7G56278.	8.1327	0.0701		
7G56285.D	CAL TPH@20PPM	12/30/21 11:09	Soil	7G56278.	8.1361	0.0283		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

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Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	---	---	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	---	---	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	---	---	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	---	---	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	---	---	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	---	---	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	---	---	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	---	---	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	---	---	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	---	---	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	---	---	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	---	---	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	---	---	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	---	---	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	---	---	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	---	---	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	---	---	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	---	---	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	---	---	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	---	---	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	---	---	---	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	---	---	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	---	---	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	---	---	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	---	---	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	---	---	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

				7G56266.D			7G56274.D			7G56278.D			7G56285.D			
Data File:				7G56266.D			7G56274.D			7G56278.D			7G56285.D			
Method:				8015			8015			8015			8015			
Calibration Name:				CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			
Calibration Date/Time				12/29/21 10:05			12/29/21 13:52			12/30/21 07:38			12/30/21 11:09			
				Conc			Conc			Conc			Conc			Conc
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc Exp %Diff
C8	20	1	0	18	20	10.0	19.84	20	0.8	19.16	20	4.2	19.26	20	3.7	
C9	20	1	0	18.29	20	8.5	20.12	20	0.6	19.46	20	2.7	19.63	20	1.9	
C10	20	1	0	18.24	20	8.8	20.11	20	0.6	19.17	20	4.2	19.73	20	1.4	
C12	20	1	0	16.15	20	19.3	20.93	20	4.7	16.9	20	15.5	17.03	20	14.9	
C14	20	1	0	20.2	20	1.0	22.2	20	11.0	20.96	20	4.8	22.13	20	10.7	
C16	20	1	0	21.28	20	6.4	22.83	20	14.2	22.18	20	10.9	22.49	20	12.5	
C17	20	1	0	15.62	20	21.9*	17.02	20	14.9	18.12	20	9.4	18.78	20	6.1	
Pristane	20	1	0	29.08	20	45.4*	32.47	20	62.4*	27.82	20	39.1*	25.88	20	29.4*	
C18	20	1	0	22.2	20	11.0	23.78	20	18.9	21.99	20	9.9	22.89	20	14.5	
Phytane	20	1	0	22.85	20	14.3	24.49	20	22.5*	22.12	20	10.6	23.2	20	16.0	
C20	20	1	0	21.57	20	7.8	23.01	20	15.1	23.83	20	19.2	24.87	20	24.4*	
C22	20	1	0	21.9	20	9.5	23.26	20	16.3	23.67	20	18.4	24.64	20	23.2*	
C24	20	1	0	22.15	20	10.8	23.3	20	16.5	23.65	20	18.3	24.69	20	23.5*	
C26	20	1	0	22.2	20	11.0	23.51	20	17.6	23.89	20	19.5	24.86	20	24.3*	
C28	20	1	0	22.47	20	12.4	23.72	20	18.6	24.54	20	22.7*	25.01	20	25.1*	
C30	20	1	0	22.41	20	12.1	23.66	20	18.3	24.55	20	22.8*	25.51	20	27.6*	
C32	20	1	0	22.24	20	11.2	23.48	20	17.4	25.17	20	25.9*	25.86	20	29.3*	
C34	20	1	0	20.79	20	4.0	22.14	20	10.7	24.04	20	20.2	25.07	20	25.4*	
C36	20	1	0	19.4	20	3.0	20.6	20	3.0	22.19	20	11.0	23.36	20	16.8	
C40	20	1	0	14.17	20	29.2*	17.44	20	12.8	17.41	20	13.0	18.89	20	5.6	
Chlorobenzene	20	1	0	19.45	20	2.7	21.16	20	5.8	20.61	20	3.1	20.98	20	4.9	
O-Terphenyl	20	1	0	22.53	20	12.7	23.78	20	18.9	24.6	20	23.0*	25.43	20	27.2*	
Average Difference	20	1	0			12.4			14.6			17.0			17.9	

Flags/Notes: ** - Values outside of limits for this column/run*

Form7
RtWindow Summary

Method: EPA 8015D

Data File:															
Calibration Name:															
Calibration Date/Time															
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD27961-001
Client Id: SB-016 SS
Data File: 13M23327.D
Analysis Date: 12/22/21 13:39
Date Rec/Extracted: 12/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 6.73g:10ml
Final Vol: NA
Dilution: 74.3
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	23	U				

Worksheet #: 623621 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23327.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 13:39
Operator : JM
Sample : AD27961-001
Misc : M,MEXT!1
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 17:30:19 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

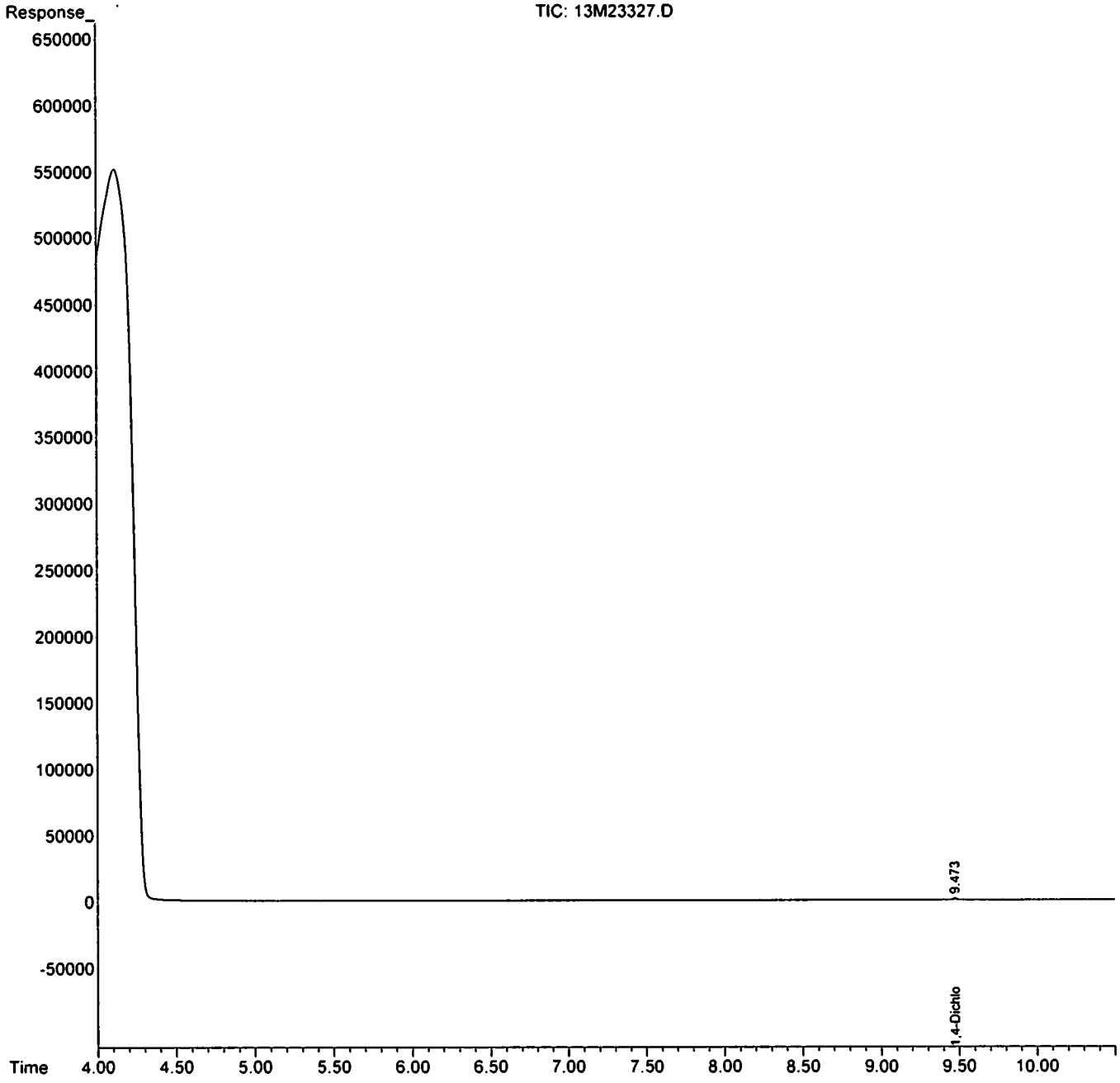
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.474	22629	27.490	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23327.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 13:39
Operator : JM
Sample : AD27961-001
Misc : M,MEXT!1
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 17:30:19 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD27961-002
Client Id: SB-017 SS
Data File: 13M23328.D
Analysis Date: 12/22/21 13:55
Date Rec/Extracted: 12/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.64g:10ml
Final Vol: NA
Dilution: 88.7
Solids: 81

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	27	U				

Worksheet #: 623621 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23328.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 13:55
Operator : JM
Sample : AD27961-002
Misc : M,MEXT!1
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 17:30:35 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

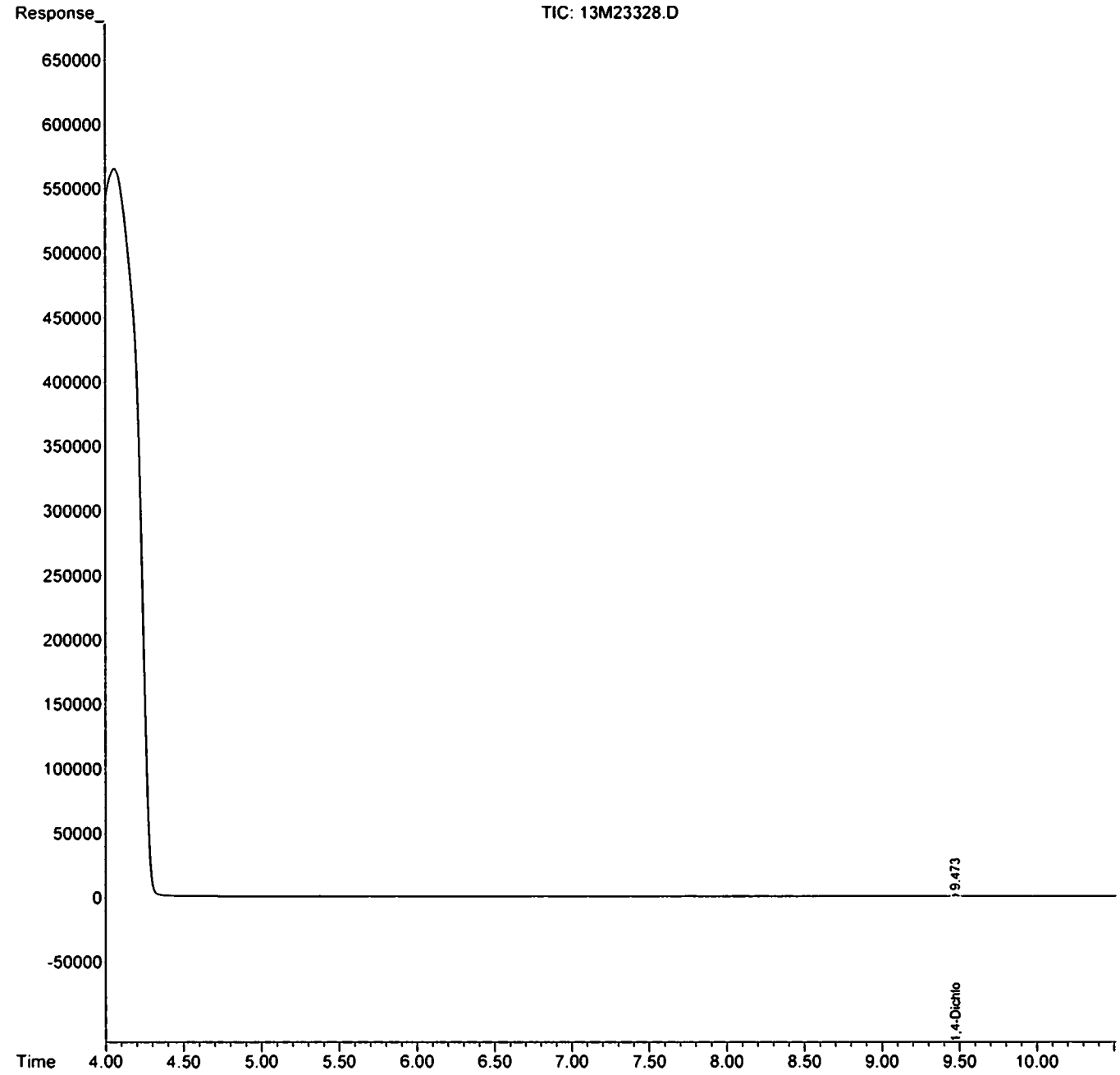
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.474	25207	30.621	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23328.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 13:55
Operator : JM
Sample : AD27961-002
Misc : M,MEXT!1
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 17:30:35 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD27961-003
Client Id: SB-018 SS
Data File: 13M23329.D
Analysis Date: 12/22/21 14:12
Date Rec/Extracted: 12/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.33g:10ml
Final Vol: NA
Dilution: 93.8
Solids: 93

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 623621 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23329.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 14:12
Operator : JM
Sample : AD27961-003
Misc : M,MEXT!1
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 17:30:55 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

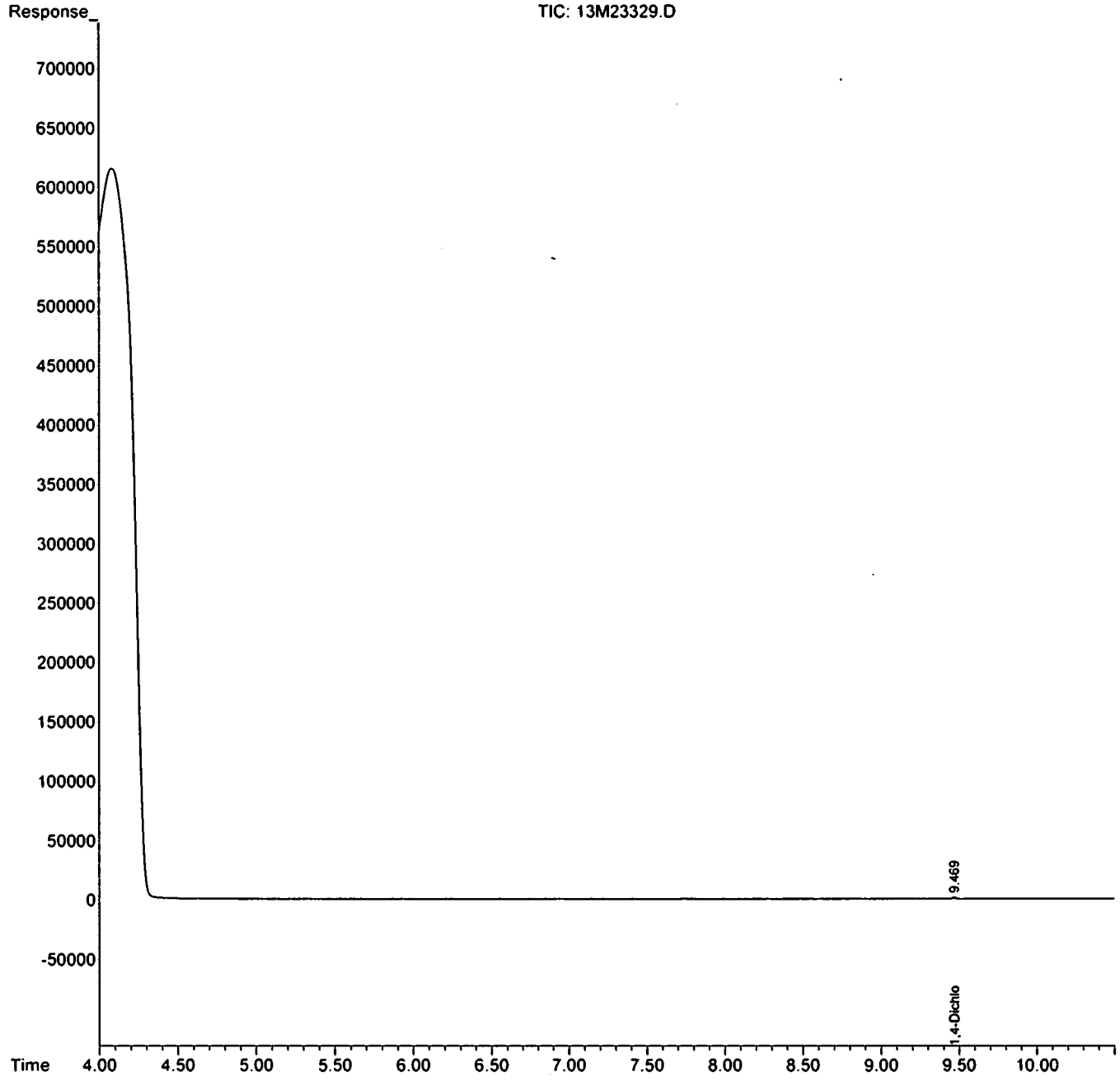
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.468	21852	26.545	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23329.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 14:12
Operator : JM
Sample : AD27961-003
Misc : M,MEXT!1
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 17:30:55 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23315.D
Analysis Date: 12/22/21 10:19
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 623621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23315.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 10:19
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 27 15:17:27 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

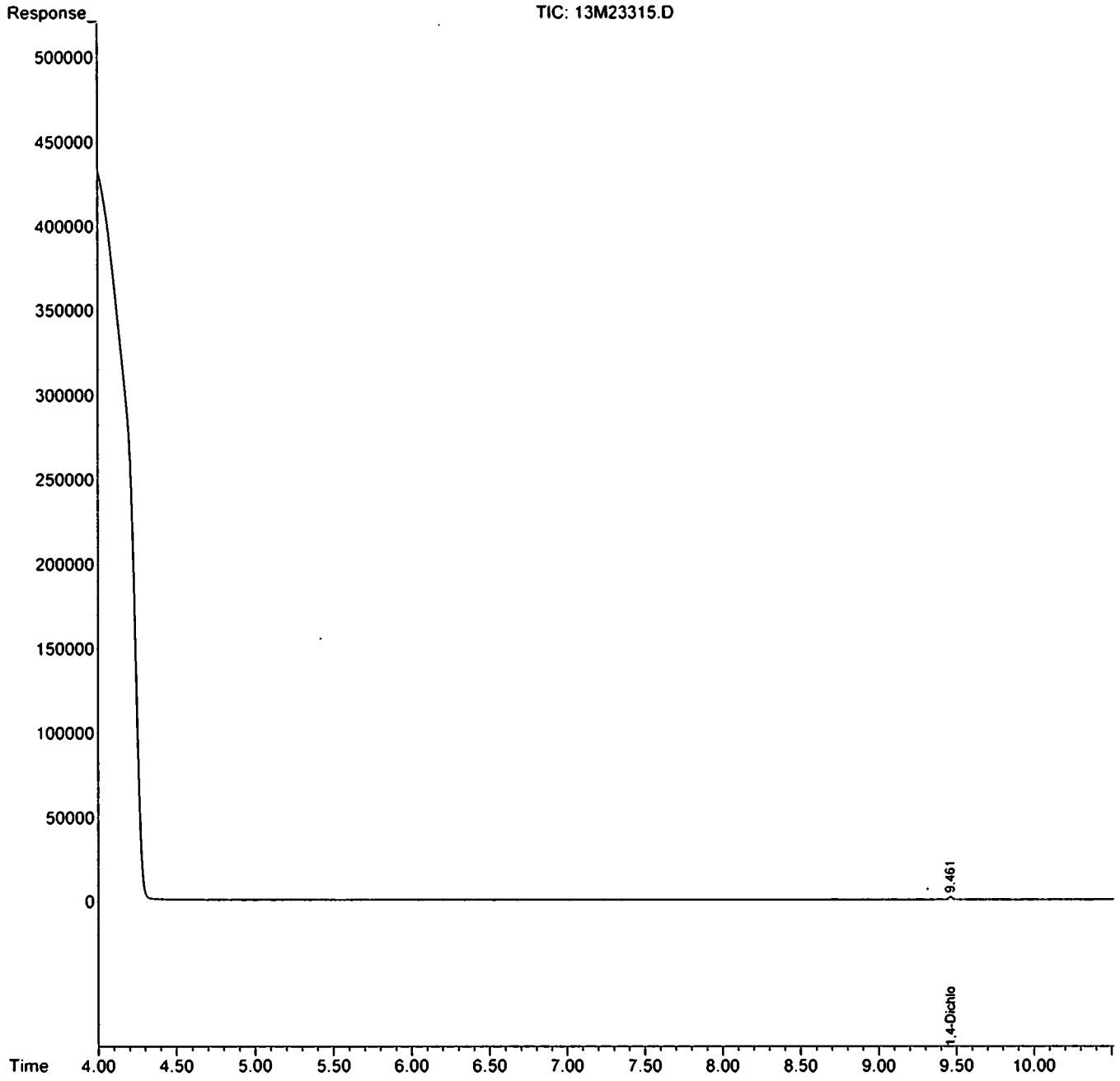
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.463	28036	34.059	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23315.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 10:19
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 27 15:17:27 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M23315.D	DAILY BLANK	M	12/22/21 10:19	1		114					
13M23327.D	AD27961-001	M	12/22/21 13:39	1		92					
13M23328.D	AD27961-002	M	12/22/21 13:55	1		102					
13M23329.D	AD27961-003	M	12/22/21 14:12	1		88					
13M23321.D	MBS98303	M	12/22/21 11:58	1		146					
13M23322.D	AD27961-001(MS)	M	12/22/21 12:15	1		114					
13M23323.D	AD27961-001(MSD)	M	12/22/21 12:32	1		106					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS98303

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23321.D	MBS98303	12/22/2021 11:58:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2378.21	0	2000	119	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS98303

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23322.D	AD27961-001(MS)	12/22/2021 12:15:00 P
Non Spike(If applicable):	13M23318.D	AD27961-001	12/22/2021 11:08:00 A
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2696.51	281.56	2000	121	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23323.D	AD27961-001(MSD)	12/22/2021 12:32:00 P
Non Spike(If applicable):	13M23318.D	AD27961-001	12/22/2021 11:08:00 A
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2613.99	281.56	2000	117	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS98303

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23323.D	AD27961-001(MSD)	12/22/2021 12:32:00 P
Duplicate(If applicable):	13M23322.D	AD27961-001(MS)	12/22/2021 12:15:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2613.99	2696.51	3.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23315.D
Matrix: Methanol

Blank Analysis Date: 12/22/21 10:19
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD27961-001	13M23327.D	12/22/21 13:39
AD27961-002	13M23328.D	12/22/21 13:55
AD27961-003	13M23329.D	12/22/21 14:12
AD27961-001(MSD	13M23323.D	12/22/21 12:32
AD27961-001(MS)	13M23322.D	12/22/21 12:15
MBS98303	13M23321.D	12/22/21 11:58

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23111.D	BLK	11/24/21 07:34	Aqueous	13M2315	9.4811	0.3667		
13M23114.D	CAL @ 250 PPB	11/24/21 08:24	Aqueous	13M2312	9.4798	0.2313		
13M23116.D	CAL @ 500 PPB	11/24/21 08:57	Aqueous	13M2312	9.4683	0.1099		
13M23118.D	CAL @ 750 PPB	11/24/21 09:30	Aqueous	13M2312	9.4693	0.1205		
13M23120.D	CAL @ 1000 PPB	11/24/21 10:04	Aqueous	13M2312	9.4613	0.0359		
13M23124.D	CAL @ 1500 PPB	11/24/21 11:35	Aqueous	13M2312	9.4803	0.2366		
13M23126.D	CAL @ 2000 PPB	11/24/21 12:08	Aqueous	13M2312	9.4597	0.019		
13M23128.D	CAL @ 4000 PPB	11/24/21 12:41	Aqueous	13M2312	9.4579	0		
13M23131.D	ICV	11/24/21 13:31	Aqueous	13M2312	9.4569	0.0106		
13M23134.D	DAILY BLANK	11/24/21 14:21	Methanol	13M2312	9.4528	0.0539		
13M23135.D	DAILY BLANK	11/24/21 14:37	Aqueous	13M2312	9.4491	0.0931		
13M23136.D	STD	11/24/21 14:58	Aqueous	13M2312	9.4595	0.0169		
13M23137.D	BLK	11/24/21 15:14	Aqueous	13M2312	9.4511	0.0719		
13M23138.D	BLK	11/24/21 15:30	Methanol	13M2312	9.4466	0.1195		
13M23139.D	BLK	11/24/21 15:47	Methanol	13M2312	9.4414	0.1746		
13M23140.D	AD27002-003(80uL)	11/24/21 16:03	Methanol	13M2312	9.4461	0.1248		
13M23141.D	BLK	11/24/21 16:20	Methanol	13M2312	9.4476	0.109		
13M23142.D	BLK	11/24/21 16:36	Methanol	13M2312	9.4552	0.0286		
13M23143.D	AD27002-003(400uL)	11/24/21 16:53	Methanol	13M2312	9.4609	0.0317		
13M23144.D	BLK	11/24/21 17:09	Methanol	13M2312	9.4552	0.0286		
13M23145.D	MBS97290	11/24/21 17:26	Methanol	13M2312	9.4541	0.0402		
13M23146.D	MBS97291	11/24/21 17:42	Aqueous	13M2312	9.4548	0.0328		
13M23147.D	AD27503-008(MS)	11/24/21 17:59	Methanol	13M2312	9.4481	0.1037		
13M23148.D	AD27503-008(MSD)	11/24/21 18:15	Methanol	13M2312	9.4456	0.1301		
13M23149.D	BLK	11/24/21 18:32	Aqueous	13M2312	9.4479	0.1058		
13M23150.D	AD27564-001	11/24/21 18:48	Methanol	13M2312	9.4461	0.1248		
13M23151.D	BLK	11/24/21 19:05	Aqueous	13M2312	9.4491	0.0931		
13M23152.D	MBS97292	11/24/21 19:21	Methanol	13M2312	9.4473	0.1121		
13M23153.D	CAL @ 2000 PPB	11/24/21 19:37	Aqueous	13M2312	9.4464	0.1217		
13M23154.D	2000 PPB	11/24/21 19:54	Aqueous	13M2315	9.4500	0.0381		
13M23155.D	BLK	11/24/21 20:11	Aqueous	13M2315	9.4477	0.0138		
13M23156.D	BLK	11/24/21 20:28	Aqueous	13M2315	9.4474	0.0106		
13M23157.D	BLK	11/24/21 20:45	Aqueous	13M2315	9.4486	0.0233		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23310.D	BLK	12/22/21 08:55	Aqueous	13M2334	0.0000	200		
13M23311.D	2000PPB	12/22/21 09:12	Aqueous	13M2334	0.0000	200		
13M23312.D	CAL @ 2000PPB	12/22/21 09:29	Aqueous	13M2331	9.4760	0		
13M23313.D	BLK	12/22/21 09:45	Aqueous	13M2331	9.4644	0.1225		
13M23315.D	DAILY BLANK	12/22/21 10:19	Methanol	13M2331	9.4627	0.1405		
13M23316.D	AD27991-008	12/22/21 10:35	Methanol	13M2331	9.4605	0.1637		
13M23317.D	AD28000-001	12/22/21 10:52	Methanol	13M2331	9.4626	0.1415		
13M23318.D	AD27961-001	12/22/21 11:08	Methanol	13M2331	9.4614	0.1542		
13M23319.D	AD27961-002	12/22/21 11:25	Methanol	13M2331	9.4614	0.1542		
13M23320.D	AD27961-003	12/22/21 11:41	Methanol	13M2331	9.4668	0.0971		
13M23321.D	MBS98303	12/22/21 11:58	Methanol	13M2331	9.4690	0.0739		
13M23322.D	AD27961-001(MS)	12/22/21 12:15	Methanol	13M2331	9.4678	0.0866		
13M23323.D	AD27961-001(MSD)	12/22/21 12:32	Methanol	13M2331	9.4668	0.0971		
13M23324.D	STD	12/22/21 12:49	Aqueous	13M2331	9.4687	0.0771		
13M23325.D	BLK	12/22/21 13:05	Aqueous	13M2331	9.4729	0.0327		
13M23326.D	BLK	12/22/21 13:22	Aqueous	13M2331	9.4756	0.0042		
13M23327.D	AD27961-001	12/22/21 13:39	Methanol	13M2331	9.4743	0.0179		
13M23328.D	AD27961-002	12/22/21 13:55	Methanol	13M2331	9.4738	0.0232		
13M23329.D	AD27961-003	12/22/21 14:12	Methanol	13M2331	9.4677	0.0876		
13M23330.D	AD28027-011	12/22/21 14:28	Methanol	13M2331	9.4760	0		
13M23331.D	AD28027-012	12/22/21 14:45	Methanol	13M2331	9.4795	0.0369		
13M23334.D	STD	12/22/21 15:36	Aqueous	13M2331	9.4669	0.0961		
13M23337.D	BLK	12/22/21 16:10	Aqueous	13M2331	9.4679	0.0855		
13M23338.D	AD28027-012	12/22/21 16:26	Methanol	13M2331	9.4810	0.0528		
13M23340.D	AD28027-011(200UL)	12/22/21 16:59	Methanol	13M2331	9.4778	0.019		
13M23342.D	CAL @ 2000PPB	12/22/21 17:33	Aqueous	13M2331	9.4751	0.0095		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1121702 0181

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M23128.	CAL @ 4000 PPB	11/24/21 12:41	2	13M23126.	CAL @ 2000 PPB	11/24/21 12:08
3	13M23124.	CAL @ 1500 PPB	11/24/21 11:35	4	13M23120.	CAL @ 1000 PPB	11/24/21 10:04
5	13M23118.	CAL @ 750 PPB	11/24/21 09:30	6	13M23116.	CAL @ 500 PPB	11/24/21 08:57
7	13M23114.	CAL @ 250 PPB	11/24/21 08:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1152	0.0918	0.0778	0.0779	0.0742	0.0704	0.0686	----	0.0823	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0009	0.0008	0.0008	0.0010	0.0009	0.0009	0.0008	----	0.000910	5.44	0.992	0.996	8.8	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0015	0.0013	0.0014	0.0014	0.0014	0.0016	----	0.00150	9.27	0.997	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0784	0.0756	0.0792	0.0709	0.0701	0.0597	0.0754	----	0.0728	8.51	0.999	0.999	9.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.5 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				13M23312.D			13M23342.D										
Method:				8015			8015										
Calibration Name:				CAL @ 2000PPB			CAL @ 2000PPB										
Calibration Date/Time				12/22/21 09:29			12/22/21 17:33										
					Conc			Conc			Conc			Conc			Conc	
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1749	2000	12.6	1664	2000	16.8									

Flags/Notes: ***- Values outside of limits for this column/run***

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27961-001	% Solid:	82	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-016 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/17/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	6.1	15	1	0.5	50	12/20/21	97647	S28029A3	33	P	PEICP3A
7439-92-1	Lead	6.1	9.9	1	0.5	50	12/20/21	97647	S28029A3	33	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27961-001	% Solid:	82	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-016 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/17/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.24	3.5	1	0.5	100	12/20/21	976482021	BNEW	38	MSMS3_7700SWA	
7440-43-9	Cadmium	0.49	ND	1	0.5	100	12/20/21	976482021	BNEW	38	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27961-002	% Solid:	81	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-017 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/17/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	6.2	13	1	0.5	50	12/20/21	97647	S28029A3	34	P	PEICP3A
7439-92-1	Lead	6.2	860	1	0.5	50	12/20/21	97647	S28029A3	34	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27961-002	% Solid:	81	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-017 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/17/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.25	8.1	1	0.5	100	12/20/21	976482021	BNEW	39	MSMS3_7700	SWA
7440-43-9	Cadmium	0.49	ND	1	0.5	100	12/20/21	976482021	BNEW	39	MSMS3_7700	SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27961-003	% Solid:	93	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-018 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/17/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.4	6.1	1	0.5	50	12/20/21	97647	S28029A3	35	P	PEICP3A
7439-92-1	Lead	5.4	35	1	0.5	50	12/20/21	97647	S28029A3	35	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD27961-003	% Solid:	93	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-018 SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/17/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.22	1.9	1	0.5	100	12/20/21	976482021BNEW		43	MSMS3_7700SWA	
7440-43-9	Cadmium	0.43	ND	1	0.5	100	12/20/21	976482021BNEW		43	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 97647 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 97647 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-36-0	Antimony	2.0	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-38-2	Arsenic	2.0	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-41-7	Beryllium	0.60	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-42-8	Boron	10	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-43-9	Cadmium	0.60	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7782-49-2	Selenium	2.5	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-21-3	Silicon	10	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-22-4	Silver	0.75	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-28-0	Thallium	2.5	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-31-5	Tin	10	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-32-6	Titanium	5.0	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-62-2	Vanadium	5.0	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	12/20/21	97647	S28029A3	17	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 97647 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 97647 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	12/21/21	97647	H28029SB	11	CV	HGCV3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 97648 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 97648 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	12/20/21	97648	2021BNEW	19	MS	1S3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/20/21
Data File: S28029A3
Prep Batch: 97647
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-15	Rec	CCV V-360409-26	Rec	CCV V-360409-36	Rec	Rec	Rec	Rec	Rec
Aluminum	5/5	4.96565	99	4.84293	97	4.59379	92	4.48507	90				
Barium	.5/.5	0.49069	98	0.52575	105	0.51930	104	0.51974	104				
Calcium	50/50	49.90210	100	52.03820	104	50.89070	102	50.65930	101				
Chromium	.5/.5	0.52326	105	0.49485	99	0.50896	102	0.47518	95				
Cobalt	.5/.5	0.49633	99	0.48214	96	0.45678	91	0.44927	90				
Copper	.5/.5	0.51229	102	0.52780	106	0.52212	104	0.52240	104				
Iron	5/5	4.97995	100	4.97835	100	4.78514	96	4.73753	95				
Lead	.5/.5	0.50682	101	0.50404	101	0.49078	98	0.49241	98				
Magnesium	50/50	50.67200	101	52.09620	104	51.04400	102	51.08120	102				
Manganese	.5/.5	0.50250	100	0.51140	102	0.49988	100	0.49797	100				
Nickel	.5/.5	0.50189	100	0.50329	101	0.49251	99	0.49212	98				
Zinc	.5/.5	0.51484	103	0.51873	104	0.50669	101	0.51937	104				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/20/21
Data File: S28029A3
Prep Batch: 97647
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360414	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	5.08421	102	80	120	500	482.132	96	90	110
Aluminum	2 0	1.94076	97	80	120	500	472.364	94	90	110
Arsenic	0 04	0 0348787	87	80	120	10	9.81785	98	90	110
Boron	0.2	0 208238	104	80	120	5	4.69740	94	90	110
Barium	0 1	0.0984743	98	80	120	10	9 86286	99	90	110
Beryllium	0 012	0.0120180	100	80	120	5	4.83258	97	90	110
Calcium	10	10.0653	101	80	120	500	457.721	92	90	110
Cadmium	0 012	0 0119130	99	80	120	5	5.01445	100	90	110
Cerium	0 2	-0.345	-170 a	80	120	25	-78.95	-320 a	90	110
Cobalt	0 025	0 0232134	93	80	120	5	4.73588	95	90	110
Chromium	0 05	0.0438627	88	80	120	10	9.48333	95	90	110
Copper	0 05	0.0554069	111	80	120	10	9.95893	100	90	110
Silver	0 015	0.0171174	114	80	120	1	1.00543	101	90	110
Potassium	NA	-44.8270		80	120	200	-1391.23	-700 a	90	110
Zinc	0.1	0.0967768	97	80	120	10	9.46118	95	90	110
Manganese	0 1	0.0996797	100	80	120	10	9.80508	98	90	110
Molybdenum	0 025	0.0234831	94	80	120	10	9.75728	98	90	110
Sodium	NA	2.69435		80	120	1000	1054.83	105	90	110
Nickel	0 05	0 0494952	99	80	120	10	9 13435	91	90	110
Lead	0 05	0 0490399	98	80	120	10	9 51647	95	90	110
Antimony	0 04	0 0394180	99	80	120	5	4 98148	100	90	110
Selenium	0 05	0 0520387	104	80	120	5	4 99013	100	90	110
Silicon	0.2	0 248929	124 a	80	120	25	24 5420	98	90	110
Tin	0.2	0 202493	101	80	120	10	9 63419	96	90	110
Titanium	0 1	0 0993717	99	80	120	10	9.92390	99	90	110
Thallium	0 05	0.0476468	95	80	120	5	4.39302	88 a	90	110
Vanadium	0 1	0.0952442	95	80	120	10	9.30469	93	90	110
Iron	2 0	1.98438	99	80	120	400	379.140	95	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/20/21
Data File: S122021BNEW
Prep Batch: 97648
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-363697-9	Rec	CCV V-363701-17	Rec	CCV V-363701-29	Rec	CCV V-363701-41	Rec	CCV V-363701-45	Rec	Rec	Rec	Rec
Antimony	50/50	52.97200	106	50.39100	101	50.94900	102	48.16300	96	47.99900	96			
Arsenic	50/50	53.18900	106	50.84900	102	51.30600	103	50.69900	101	50.09900	100			
Beryllium	50/50	52.54600	105	50.06200	100	51.21400	102	49.25000	98	49.13800	98			
Cadmium	50/50	52.17600	104	49.98200	100	51.20300	102	50.14600	100	49.65500	99			
Potassium	5000/5000	5246.8130	105	5205.7380	104	5175.0310	104	5173.4550	103	5110.6390	102			
Selenium	50/250	52.91100	106	255.04500	102	256.32200	103	250.79200	100	251.98000	101			
Silver	10/50	10.41800	104	51.12300	102	52.16400	104	51.73200	103	51.12000	102			
Sodium	5000/5000	5298.2280	106	5175.9140	104	5146.4970	103	5128.9890	103	5111.9400	102			
Thallium	50/50	50.59900	101	51.06200	102	52.14200	104	52.00300	104	51.14600	102			
Vanadium	50/50	51.45300	103	51.00000	102	51.67700	103	50.75800	102	50.71300	101			

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/20/21
Data File: S122021BNEW
Prep Batch: 97648
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-363702	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-363700	Recovery	Low Limit	High Limit
Magnesium	500	494 250	99	80	120	50000	50582.995	101	90	110
Aluminum	500	504.502	101	80	120	15000	15525 272	104	90	110
Arsenic	1	0 998	100	80	120	500	509.521	102	90	110
Barium	5	4 939	99	80	120	500	516.316	103	90	110
Beryllium	1	1 065	106	80	120	500	502.868	101	90	110
Calcium	500	497 253	99	80	120	50000	52997 063	106	90	110
Cadmium	2	2.017	101	80	120	500	511.019	102	90	110
Cobalt	2	1.971	99	80	120	500	492.415	98	90	110
Chromium	2	2.113	106	80	120	500	509.131	102	90	110
Copper	10	10 328	103	80	120	500	493.952	99	90	110
Silver	1	0.956	96	80	120	500	54.685	11 a	90	110
Potassium	500	499 082	100	80	120	50000	52024.897	104	90	110
Zinc	20	20 173	101	80	120	500	484.942	97	90	110
Manganese	6	5 803	97	80	120	500	517.976	104	90	110
Molybdenum	1	0 999	100	80	120	500	504.596	101	90	110
Sodium	500	448 503	90	80	120	50000	50938 355	102	90	110
Nickel	3	3 061	102	80	120	500	512.256	102	90	110
Lead	2	1 876	94	80	120	500	474.858	95	90	110
Antimony	4	3 845	96	80	120	500	499 969	100	90	110
Selenium	10	10 161	102	80	120	2500	2521.542	101	90	110
Thallium	2	1.954	98	80	120	500	490.786	98	90	110
Vanadium	1	1.082	108	80	120	500	522.256	104	90	110
Iron	500	515.735	103	80	120	50000	50726.179	101	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/20/21
Data File: S28029A3
Prep Batch: 97647
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-6	CCB V-360404-16	CCB V-360404-27	CCB V-360404-37	MB 97647 (100)-17
Aluminum	1 U	2 U	2 U	2 U	100 U
Barium	.05 U	.1 U	.1 U	.1 U	5 U
Calcium	5 U	10 U	10 U	10 U	500 U
Chromium	.025 U	.05 U	.05 U	.05 U	2.5 U
Cobalt	.0125 U	.025 U	.025 U	.025 U	1.3 U
Copper	.025 U	.05 U	.05 U	.05 U	2.5 U
Iron	1 U	2 U	2 U	2 U	100 U
Lead	.025 U	.05 U	.05 U	.05 U	2.5 U
Magnesium	2.5 U	5 U	5 U	5 U	250 U
Manganese	.05 U	.1 U	.1 U	.1 U	5 U
Nickel	.025 U	.05 U	.05 U	.05 U	2.5 U
Zinc	.05 U	.1 U	.1 U	.1 U	5 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/20/21
Data File: S122021BNEW
Prep Batch: 97648
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-363698-11	CCB V-363698-18	CCB V-363698-30	CCB V-363698-42	CCB V-363698-46	MB 97648-19
Antimony	2U	4U	4U	4U	4U	400U
Arsenic	.5U	1U	1U	1U	1U	100U
Beryllium	.5U	1U	1U	1U	1U	100U
Cadmium	1U	2U	2U	2U	2U	200U
Potassium	250U	500U	500U	500U	500U	50000U
Selenium	5U	10U	10U	10U	10U	1000U
Silver	.5U	1U	1U	1U	1U	100U
Sodium	250U	500U	500U	500U	500U	50000U
Thallium	1U	2U	2U	2U	2U	200U
Vanadium	.5U	1U	1U	1U	1U	100U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/20/21
Data File: S28029A3
Prep Batch: 97647
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	487.84	98							
Barium	0	U								
Calcium	500	480.79€	96							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	194.57€	97							
Lead	0	U								
Magnesium	500	514.811	103							
Manganese	0	U								
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/20/21
Data File: S122021BNEW
Prep Batch: 97648
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121702

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-363699-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	50543.45	101							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	157716.7	105							
Iron	125000	127352.7	102							
Magnesium	50000	50480.22	101							
Potassium	50000	52002.11	104							
Selenium	0	U								
Silver	0	U								
Sodium	125000	127969.3	102							
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97647

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97647

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97647	1	S28029A3	19	0.5947	.734	81		67	125
Lead	97647	1	S28029A3	19	1.6468	1.86	89		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 97647

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97647	1	S28029A3	18	0.6032	.734	82		67	125
Lead	97647	1	S28029A3	18	1.6318	1.86	88		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97647	1	S28029A3	23	S28029A3	20	0.5514	0.0883	0.5	93		75	125
Lead	97647	1	S28029A3	23	S28029A3	20	1.1734	0.6993	0.5	95		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97647	1	S28029A3	22	S28029A3	20	0.5993	0.0883	0.5	102		75	125
Lead	97647	1	S28029A3	22	S28029A3	20	1.2854	0.6993	0.5	117		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA

PREP BATCH: 97647

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27991-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S28029A3	24	S28029A3	20	0.5619	0.0883	0.50	95		75	125
Lead	1	S28029A3	24	S28029A3	20	1.1386	0.6993	0.50	88		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97648

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97648

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97648	1	S122021B	21	224.7660	225	100		65	121
Cadmium	97648	1	S122021B	21	259.5280	249	104		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 97648

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97648	1	S122021B	20	223.8600	225	99		65	121
Cadmium	97648	1	S122021B	20	260.5280	249	105		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97648	1	S122021B	35	S122021B	31	249.6310	9.7790	250	96		75	125
Cadmium	97648	1	S122021B	35	S122021B	31	244.9570	2U	250	98		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97648	1	S122021B	34	S122021B	31	250.3880	9.7790	250	96		75	125
Cadmium	97648	1	S122021B	34	S122021B	31	253.9390	2U	250	102		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97648

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD27991-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S122021B	36	S122021B	31	58.9810	9.7790	50	98		75	125
Cadmium	1	S122021B	36	S122021B	31	49.4740	2U	50	99		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 97647

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97647

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97647	S28029A3	19	S28029A3	18	0.5947	0.6032	1.4	20
Lead	97647	S28029A3	19	S28029A3	18	1.6468	1.6318	.91	20

TxtQcType: MR Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97647	S28029A3	21	S28029A3	20	0.0881	0.0883	0.2	20
Lead	97647	S28029A3	21	S28029A3	20	0.7111	0.6993	1.7	20

TxtQcType: MSD Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97647	S28029A3	23	S28029A3	22	0.5514	0.5993	8.3	20
Lead	97647	S28029A3	23	S28029A3	22	1.1734	1.2854	9.1	20

TxtQcType: SD Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	97647	S28029A3	25	S28029A3	20	5	0.0116	0.0883	34	a	10
Lead	97647	S28029A3	25	S28029A3	20	5	0.1351	0.6993	3.4		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH:97648

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97648

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	97648	S122021B	21	S122021B	20	224.7660	223.8600	.4		20
Cadmium	97648	S122021B	21	S122021B	20	259.5280	260.5280	.38		20

TxtQcType: MR Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	97648	S122021B	32	S122021B	31	7.6170	9.7790	25	a	20
Cadmium	97648	S122021B	32	S122021B	31	2U	2U	---		20

TxtQcType: MSD Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	97648	S122021B	35	S122021B	34	249.6310	250.3880	.3		20
Cadmium	97648	S122021B	35	S122021B	34	244.9570	253.9390	3.6		20

TxtQcType: SD Matrix: SOIL SampleID: AD27991-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	97648	S122021B	33	S122021B	31	5	1.9080	9.7790	2.4		20
Cadmium	97648	S122021B	33	S122021B	31	5	0.1240	0.7420	16	c	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 28029 Analyst: ANS

QC Number: 97647 Prep Date: 12/20/21

Matrix: Soil Reviewed By: DL

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	Soil	Soil				--	
LCS	0.5g	"				--	
LCSD	"	"				--	
1. AQ 27991-001	"	"					Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate	"	"					
MR -001	"	"					
MS -001	"	"					Balance used: 039
MSD -001	"	"					Pipettes used: 153, 149
2. 27983-001	"	"					
3. 27991-003	"	"					Hot Block used: 5
4. 27977-003	"	"					
5. " -006	"	"					
6. 27963-004	"	"					
7. 27961-001	"	"					
8. " -002	"	"					
9. " -003	"	"					
10. 27733-005	"	"					
11. " -014	"	"					
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 92.3 C (90-95° C) Start Time: ~~9:30~~ 9:30am End Time: 12:30pm

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 14301
LLLCS, LLLCSD		V-
MS, MSD	0.25	V-14276, 14277
LLMS, LLMSD		V- 358096

Acid	Vol mL	Lot#
HNO_3	2.5	V-14296
HCl	5.0	V-14217
H_2O_2	1.5	V-14340

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By AS Date 12/20/21

Received By DL Date 12/20/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A ~~3050B~~ 200.7/200.8 OTHER_____

Batch No.: 280030 Analyst: ANS

QC Number: 97648 Prep Date: 12/20/21

Matrix: Soil 6020 Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50 mL	50 mL	25 mL	50 mL		–	
LCS	0.1g					–	
LCSD	1					–	
1. 427991-001	0.5g						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR -001							
MS -001							Balance used: 039
MSD -001							Pipettes used: 15, 49
2. 27983-001							
3. 27991-003							Hot Block used: 5
4. 27977-003							
5. -006							
6. 27963-004							
7. 27961-001							
8. -002							
9. -003							
10. 27733-005							
11. -014							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 92.3 C (90-95° C) Start Time: 9:30am End Time: 12:20pm

	Volume mL	Lot #
LCS, LCSD	0.1g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V-14276, 14277
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-14296
HCl	1.0	V-14213
H_2O_2	1.5	V-14240

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-359994
1:1 HCl		V-

Relinquished By ANS Date 12/20/21

Received By [illegible] Date 12/20/21

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S28029A3.txt

Analysis Date: 12/20/21 **Instrument** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-360404	1	CAL	11:22	1							V-360404(ICB/CCB)
CALST2 V-360414	1	CAL	11:26	2							V-360414(LLICV/LLCCV soil)
CALST3 V-360405	1	CAL	11:30	3							V-360405(ICS3 - Middle Std)
CALST4 V-360406	1	CAL	11:33	4							V-360406(ICS4 High std)
ICV V-360409	1	ICV	11:36	5							V-360409(CCV)
ICB V-360404	1	ICB	11:39	6							V-360404(ICB/CCB)
LRS V-360412	1	LRS	11:43	7		SOIL	SOIL	SW846	97647		V-360412(LRS)
ICS3 V-360405	1	ICS	11:48	8							V-360405(ICS3 - Middle Std)
RINSE	1	NA	11:51	9		SOIL	SOIL	SW846	97647		0
LLICV V-360414	1	LLICV	11:55	10		SOIL	SOIL	SW846	97647		V-360414(LLICV/LLCCV soil)
ICSA V-360410	1	ICSA	11:58	11							V-360410(ICSA)
AD27911-003	2	SMP	12:03	12	MET-TAL6010S	SOIL	SOIL	SW846	96697	Mn,Ni reported	0
AD27733-005	1	SMP	12:07	13	MET-TAL6010S	SOIL	SOIL	SW846	97647		0
AD27733-014	1	SMP	12:10	14	MET-TAL6010S	SOIL	SOIL	SW846	97647		0
CCV V-360409	1	CCV	12:14	15							V-360409(CCV)
CCB V-360404	1	CCB	12:17	16							V-360404(ICB/CCB)
MB 97647 (100)	1	MB	12:21	17		SOIL	SOIL	SW846	97647		0
LCS 97647	1	LCS	12:25	18		SOIL	SOIL	SW846	97647		0
LCS MR 97647	1	LCS	12:29	19		SOIL	SOIL	SW846	97647		0
AD27991-001	1	SMP	12:33	20	MET-PP6010S	SOIL	SOIL	SW846	97647		0
AD27991-001	1	MR	12:37	21	MET-PP6010S	SOIL	SOIL	SW846	97647		0
AD27991-001	1	MS	12:40	22	MET-PP6010S	SOIL	SOIL	SW846	97647		0
AD27991-001	1	MSD	12:44	23	MET-PP6010S	SOIL	SOIL	SW846	97647		0
AD27991-001	1	PS	12:48	24	MET-PP6010S	SOIL	SOIL	SW846	97647		0
AD27991-001	5	SD	12:51	25	MET-PP6010S	SOIL	SOIL	SW846	97647		0
CCV V-360409	1	CCV	12:55	26							V-360409(CCV)
CCB V-360404	1	CCB	12:58	27							V-360404(ICB/CCB)
AD27983-001	1	SMP	13:02	28	MET-TAL6010S	SOIL	SOIL	SW846	97647		0
AD27991-003	1	SMP	13:06	29	MET-PP6010S	SOIL	SOIL	SW846	97647		0
AD27977-003	1	SMP	13:10	30	MET-TAL6010S	SOIL	SOIL	SW846	97647		0
AD27977-006	1	SMP	13:14	31	MET-TAL6010S	SOIL	SOIL	SW846	97647		0
AD27963-004	1	SMP	13:18	32	MET-TAL6010S	SOIL	SOIL	SW846	97647		0
AD27961-001	1	SMP	13:22	33	MET-RCRA-S	SOIL	SOIL	SW846	97647		0
AD27961-002	1	SMP	13:26	34	MET-RCRA-S	SOIL	SOIL	SW846	97647		0
AD27961-003	1	SMP	13:30	35	MET-RCRA-S	SOIL	SOIL	SW846	97647		0
CCV V-360409	1	CCV	13:33	36							V-360409(CCV)
CCB V-360404	1	CCB	13:37	37							V-360404(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 12/20/2021 1:50:06 PM

Run is OK All elements reported

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

12/27/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S122021BNEW.txt

Analysis Date: 12/20/21 **Instrument** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	11:40	1		SOIL	SOIL	SW846	97648		0
RINSE	1	NA	11:44	2		SOIL	SOIL	SW846	97648		0
CalBlk V-363691	1	ISBLK	11:49	3		SOIL	SOIL				V-363691(Cal Blk WARNING)
CalStd1 V-363692	1	CAL	11:53	4							V-363692(Cal Std-1 WARNING)
CalStd2 V-363693	1	CAL	11:58	5							V-363693(Cal Std-2 WARNING)
CalStd3 V-363694	1	CAL	12:02	6							V-363694(Cal Std-3 WARNING)
CalStd4 V-363695	1	CAL	12:07	7							V-363695(Cal Std-4 WARNING)
CalStd5 V-363696	1	CAL	12:11	8							V-363696(Cal Std-5 WARNING)
ICV V-363697	1	ICV	12:15	9							V-363697(ICV WARNING)
LLICV V-363702	1	LLICV	12:20	10		SOIL	SOIL	SW846	97648		V-363702(LL-ICV/CCV SOIL WARNING)
ICB V-363698	1	ICB	12:24	11							V-363698(ICB/CCB WARNING)
ICSA V-363699	1	ICSA	12:29	12							V-363699(ICSA WARNING)
RINSE	1	NA	12:33	13		SOIL	SOIL	SW846	97648		0
LRS V-363700	1	LRS	12:37	14		SOIL	SOIL	SW846	97648	Ag fail.	V-363700(LRS WARNING)
RINSE	1	NA	12:42	15		SOIL	SOIL	SW846	97648		0
RINSE	1	NA	12:46	16		SOIL	SOIL	SW846	97648		0
CCV V-363701	1	CCV	12:50	17							V-363701(CCV WARNING)
CCB V-363698	1	CCB	12:55	18							V-363698(ICB/CCB WARNING)
MB 97648	1	MB	12:59	19		SOIL	SOIL	SW846	97648		0
LCS 97648	1	LCS	13:04	20		SOIL	SOIL	SW846	97648		0
LCS MR 97648	1	LCS	13:08	21		SOIL	SOIL	SW846	97648		0
AD27733-005	1	SMP	13:12	22	MET-TAL6020S	SOIL	SOIL	SW846	97648		0
AD27733-014	1	SMP	13:16	23	MET-TAL6020S	SOIL	SOIL	SW846	97648		0
AD27977-003	1	SMP	13:21	24	MET-TAL6020S	SOIL	SOIL	SW846	97648		0
AD27977-006	1	SMP	13:25	25	MET-TAL6020S	SOIL	SOIL	SW846	97648		0
AD27991-003	1	SMP	13:30	26	MET-PP6020S	SOIL	SOIL	SW846	97648		0
AD27983-001	1	SMP	13:34	27	MET-TAL6020S	SOIL	SOIL	SW846	97648		0
RINSE	1	NA	13:38	28		SOIL	SOIL	SW846	97648		0
CCV V-363701	1	CCV	13:43	29							V-363701(CCV WARNING)
CCB V-363698	1	CCB	13:47	30							V-363698(ICB/CCB WARNING)
AD27991-001	1	SMP	13:52	31	MET-PP6020S	SOIL	SOIL	SW846	97648		0
AD27991-001	1	MR	13:56	32	MET-PP6020S	SOIL	SOIL	SW846	97648		0
AD27991-001	5	SD	14:01	33	MET-PP6020S	SOIL	SOIL	SW846	97648		0
AD27991-001	1	MS	14:05	34	MET-PP6020S	SOIL	SOIL	SW846	97648		0
AD27991-001	1	MSD	14:09	35	MET-PP6020S	SOIL	SOIL	SW846	97648		0
AD27991-001	1	PS	14:13	36	MET-PP6020S	SOIL	SOIL	SW846	97648		0
AD27963-004	1	SMP	14:18	37	MET-TAL6020S	SOIL	SOIL	SW846	97648		0
AD27961-001	1	SMP	14:22	38	MET-RCRA-MS	SOIL	SOIL	SW846	97648		0
AD27961-002	1	SMP	14:26	39	MET-RCRA-MS	SOIL	SOIL	SW846	97648		0
RINSE	1	NA	14:31	40		SOIL	SOIL	SW846	97648		0
CCV V-363701	1	CCV	14:35	41							V-363701(CCV WARNING)
CCB V-363698	1	CCB	14:39	42							V-363698(ICB/CCB WARNING)
AD27961-003	1	SMP	14:44	43	MET-RCRA-MS	SOIL	SOIL	SW846	97648		0
RINSE	1	NA	14:48	44		SOIL	SOIL	SW846	97648		0
CCV V-363701	1	CCV	14:53	45							V-363701(CCV WARNING)
CCB V-363698	1	CCB	14:57	46							V-363698(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 12/21/2021 10:24:40 AM

Run ok. Report Ag, As, Be, Cd, K, Na, Sb, Se, Tl, V. LRS fail for Ag. Ag LR = 100ppb. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 25 12/10/21

Standard/Batch/SnCl2 Lot #:

12/23/21

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S122021BN Sample ID: CalBlk V-363691 Sample Date 12/20/21 Sample Time: 11:49

IS ID:	Area	Area Limit
Ho-1	3373406.82	2361384.774 - 4385428.866
In-1	2878644.65	2015051.255 - 3742238.045
Sc-1	1818773.69	1273141.583 - 2364405.797
Tb-1	3544972.52	2481480.764 - 4608464.276

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	3373406.	2878644.	1818773.	3544972.				
SMP	RINSE	1	3253571.	2799239.	1783650.	3423422.				
SMP	RINSE	2	3286715.	2828684.	1805944.	3478148.				
CAL	CalStd1 V-36369	4	3369828.	2873571.	1805826.	3537467.				
CAL	CalStd2 V-36369	5	3354461.	2862914.	1811735.	3530345.				
CAL	CalStd3 V-36369	6	3360539.	2857274.	1797285.	3532929.				
CAL	CalStd4 V-36369	7	3347744.	2833974.	1785981.	3511608.				
CAL	CalStd5 V-36369	8	3409890.	2835635.	1806712.	3544694.				
ICV	ICV V-363697	9	3395565.	2864837.	1804876.	3579437.				
LLICV	LLICV V-363702	10	3388420.	2878158.	1818078.	3570912.				
ICB	ICB V-363698	11	3370852.	2874703.	1796639.	3567929.				
ICSA	ICSA V-363699	12	3317491.	2685767.	1771555.	3505604.				
SMP	RINSE	13	3388396.	2932378.	1820966.	3570398.				
LRS	LRS V-363700	14	3374680.	2781849.	1824915.	3506453.				
SMP	RINSE	15	3426069.	2967382.	1864897.	3606576.				
SMP	RINSE	16	3328098.	2872456.	1799917.	3520682.				
CCV	CCV V-363701	17	3403232.	2884964.	1836473.	3581745.				
CCB	CCB V-363698	18	3385857.	2874247.	1796882.	3568632.				
MB	MB 97648	19	3396729.	2855963.	1802359.	3594296.				
LCS	LCS 97648	20	3473261.	2922644.	1916914.	3687923.				
MR	LCS MR 97648	21	3482370.	2948873.	1940139.	3671703.				
SMP	AD27733-005	22	3610766.	2889966.	2475822. *	3781839.				
SMP	AD27733-014	23	3605266.	2855637.	2521391. *	3799498.				
SMP	AD27977-003	24	4021814.	2778200.	4493768. *	4236835.				
SMP	AD27977-006	25	4174691.	2812129.	4578732. *	4330756.				
SMP	AD27991-003	26	3637530.	2963966.	2363866.	3847078.				
SMP	AD27983-001	27	3498034.	2931672.	1997907.	3678536.				
SMP	RINSE	28	3374207.	2895361.	1819036.	3574209.				
CCV	CCV V-363701	29	3408472.	2908771.	1855675.	3576761.				
CCB	CCB V-363698	30	3337645.	2841381.	1798138.	3539550.				
SMP	AD27991-001	31	3446659.	2864559.	2138307.	3620120.				
MR	AD27991-001	32	3437839.	2819957.	2154355.	3611084.				
SD	AD27991-001	33	3338467.	2831377.	1848500.	3521746.				
MS	AD27991-001	34	3355193.	2760519.	2124638.	3513836.				
MSD	AD27991-001	35	3410029.	2788774.	2179208.	3575979.				
PS	AD27991-001	36	3441895.	2799509.	2120424.	3596804.				
SMP	AD27963-004	37	3349195.	2634944.	2196169.	3521464.				
SMP	AD27961-001	38	3457894.	2774433.	2402977. *	3610816.				
SMP	AD27961-002	39	3490205.	2809000.	2480091. *	3655367.				
SMP	RINSE	40	3247298.	2761677.	1744539.	3403484.				
CCV	CCV V-363701	41	3296100.	2777692.	1772179.	3471049.				
CCB	CCB V-363698	42	3236698.	2732259.	1703103.	3398899.				
SMP	AD27961-003	43	3291000.	2733981.	2169262.	3459817.				
SMP	RINSE	44	3184580.	2705732.	1700993.	3342809.				
CCV	CCV V-363701	45	3293735.	2750074.	1750600.	3445596.				
CCB	CCB V-363698	46	3223379.	2697301.	1688571.	3383331.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S122021BN Sample ID: CalBlk V-363691 Sample Date 12/20/21 Sample Time: 11:49

IS ID:	Area	Area Limit		
Ho-2	2274976.67	1592483.669	-	2957469.671
In-2	770282.61	539197.827	-	1001367.393
Sc-2	88013.28	61609.296	-	114417.264
Tb-2	2316713.18	1621699.226	-	3011727.134

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	2274976.	770282.6	88013.28	2316713.				
SMP	RINSE	1	2287098.	784238.9	88789.91	2327093.				
SMP	RINSE	2	2289704.	783991.2	89664.16	2323598.				
CAL	CalStd1 V-36369	4	2267845.	762225.7	85073.25	2310061.				
CAL	CalStd2 V-36369	5	2276258.	758343.8	86265.50	2304506.				
CAL	CalStd3 V-36369	6	2258201.	758575.3	85027.94	2296045.				
CAL	CalStd4 V-36369	7	2239530.	752996.0	84811.01	2289623.				
CAL	CalStd5 V-36369	8	2277075.	757266.1	85113.54	2322499.				
ICV	ICV V-363697	9	2274236.	764571.2	86685.41	2331583.				
LLICV	LLICV V-363702	10	2313449.	768280.1	85983.20	2329320.				
ICB	ICB V-363698	11	2292994.	763993.9	85392.84	2329096.				
ICSA	ICSA V-363699	12	2211916.	707111.3	84254.42	2250030.				
SMP	RINSE	13	2337880.	797225.4	89087.18	2366165.				
LRS	LRS V-363700	14	2292240.	744681.5	88270.15	2316972.				
SMP	RINSE	15	2351798.	811179.8	92800.15	2411588.				
SMP	RINSE	16	2292654.	794762.5	90438.08	2341429.				
CCV	CCV V-363701	17	2300672.	762805.0	86476.57	2329156.				
CCB	CCB V-363698	18	2307126.	772939.0	86357.80	2346751.				
MB	MB 97648	19	2278506.	747487.5	84382.53	2307604.				
LCS	LCS 97648	20	2337288.	774181.0	89858.28	2374421.				
MR	LCS MR 97648	21	2325606.	770295.7	93031.31	2372238.				
SMP	AD27733-005	22	2415987.	761985.5	120584.2 *	2462050.				
SMP	AD27733-014	23	2394217.	746858.8	121525.5 *	2439099.				
SMP	AD27977-003	24	2750404.	744343.7	233285.1 *	2771450.				
SMP	AD27977-006	25	2822824.	745724.7	231397.1 *	2825573.				
SMP	AD27991-003	26	2449480.	784500.7	114241.3	2476742.				
SMP	AD27983-001	27	2336911.	773257.3	93745.81	2362537.				
SMP	RINSE	28	2301349.	790525.6	89169.53	2347267.				
CCV	CCV V-363701	29	2279660.	760574.0	87067.92	2337187.				
CCB	CCB V-363698	30	2266899.	760056.7	84431.55	2305079.				
SMP	AD27991-001	31	2332689.	753191.9	103535.3	2366403.				
MR	AD27991-001	32	2331269.	755691.0	103966.4	2375231.				
SD	AD27991-001	33	2285659.	772173.1	90087.06	2329904.				
MS	AD27991-001	34	2265319.	728464.6	101904.0	2289765.				
MSD	AD27991-001	35	2255765.	720972.4	104154.7	2278693.				
PS	AD27991-001	36	2299177.	740745.8	102279.5	2315341.				
SMP	AD27963-004	37	2225699.	683842.2	105563.8	2242694.				
SMP	AD27961-001	38	2312200.	739794.0	117260.5 *	2351006.				
SMP	AD27961-002	39	2365266.	733370.4	120998.4 *	2402740.				
SMP	RINSE	40	2240888.	759664.4	84904.18	2285434.				
CCV	CCV V-363701	41	2201642.	722662.6	81747.70	2225252.				
CCB	CCB V-363698	42	2178204.	716860.9	80267.96	2210300.				
SMP	AD27961-003	43	2240378.	722924.8	106492.3	2261136.				
SMP	RINSE	44	2202943.	746410.3	82940.24	2234270.				
CCV	CCV V-363701	45	2188893.	715923.8	80684.26	2219424.				
CCB	CCB V-363698	46	2168337.	710468.1	79127.84	2201556.				

* Indicates Internal Standard Area outside of limits

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1121702**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD27961-001	SB-016 SS	Soil/Terracore	1	82	Percent			12/19/21	12/17/21	12/16/21
AD27961-002	SB-017 SS	Soil/Terracore	1	81	Percent			12/19/21	12/17/21	12/16/21
AD27961-003	SB-018 SS	Soil/Terracore	1	93	Percent			12/19/21	12/17/21	12/16/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12678

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD27991-003	91	91.09890	Percent	1.30	10.40	9.59	12/19/21	janee	0.25	5
Sample	AD27961-001	82	82.35294	Percent	1.31	10.32	8.73	12/19/21	janee		
Sample	AD27961-002	81	80.86522	Percent	1.33	7.34	6.19	12/19/21	janee		
Sample	AD27961-003	93	92.50335	Percent	1.29	8.76	8.20	12/19/21	janee		
Sample	AD27963-001	94	93.86667	Percent	1.30	8.80	8.34	12/19/21	janee		
Sample	AD27963-002	93	92.67442	Percent	1.30	9.90	9.27	12/19/21	janee		
Sample	AD27963-003	94	93.95349	Percent	1.30	9.90	9.37	12/19/21	janee		
Sample	AD27963-004	93	93.22459	Percent	1.30	9.27	8.73	12/19/21	janee		
Sample	AD27968-001	80	79.51807	Percent	1.29	8.76	7.23	12/19/21	janee		
Sample	AD27968-002	82	82.09746	Percent	1.30	10.74	9.05	12/19/21	janee		
Sample	AD27968-003	84	84.04437	Percent	1.29	13.01	11.14	12/19/21	janee		
Sample	AD27968-004	85	85.39435	Percent	1.30	11.57	10.07	12/19/21	janee		
Sample	AD27968-005	85	84.61538	Percent	1.30	8.58	7.46	12/19/21	janee		
Sample	AD27968-006	79	79.05918	Percent	1.29	7.88	6.50	12/19/21	janee		
Sample	AD27969-001	84	84.08521	Percent	1.29	9.27	8.00	12/19/21	janee		
Sample	AD27969-002	85	84.85549	Percent	1.29	9.94	8.63	12/19/21	janee		
Sample	AD27969-003	83	82.95165	Percent	1.28	9.14	7.80	12/19/21	janee		
Sample	AD27969-004	84	84.33099	Percent	1.28	12.64	10.86	12/19/21	janee		
Sample	AD27991-003	91	91.32369	Percent	1.29	10.28	9.50	12/19/21	janee		
Sample	AD27991-004	89	89.22902	Percent	1.31	10.13	9.18	12/19/21	janee		
Sample	AD27991-005	86	85.57807	Percent	1.27	9.66	8.46	12/19/21	janee		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 12/18/2021

Report Date: 2/2/2022

Deliverables: MDE-R

Lab ID: AD28000

Lab Project No: 1121801

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 1121801

Sample Summary

Client: Intertek-PSI

HC Project #: 1121801

Project: CSA WMATA 0444100

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD28000-001	SB-015SS	Soil/Terracore	12/17/2021	12/18/2021

HC Case Narrative

Client: Intertek-PSI **HC Project:** 1121801
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 98291 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98291 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

Data conforms to method requirements.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 97653. Please refer to the applicable Form 6/9 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

2/2/22
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 1121801

Project: CSA WMATA 0444100

Lab#: AD28000-001 **Sample ID: SB-015SS**

Analyte	Units	RL	Result	Analytical Method
Chromium	mg/kg	5.9	13	EPA 6010D
Lead	mg/kg	5.9	10	EPA 6010D
Arsenic	mg/kg	0.24	3.1	EPA 6020B
Gasoline Range Organics	mg/kg	24	79	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	71	78	EPA 8015D
Benzo[a]anthracene	mg/kg	0.039	0.058	EPA 8270E
Benzo[a]pyrene	mg/kg	0.039	0.063	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.039	0.088	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.039	0.053	EPA 8270E
Chrysene	mg/kg	0.039	0.066	EPA 8270E
Fluoranthene	mg/kg	0.039	0.071	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.039	0.042	EPA 8270E
Pyrene	mg/kg	0.039	0.071	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI **HC Project #:** 1121801

Project: CSA WMATA 0444100

Sample ID: SB-015SS **Collection Date:** 12/17/2021
Lab#: AD28000-001 **Receipt Date:** 12/18/2021
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		85

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	71	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	82.1	mg/kg	24	79

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	mg/kg	5.9	13
Lead	1	mg/kg	5.9	10

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	mg/kg	0.24	3.1
Cadmium	1	mg/kg	0.47	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.039	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.039	ND
1,2-Diphenylhydrazine	1	mg/kg	0.039	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.039	ND
2,4,5-Trichlorophenol	1	mg/kg	0.039	ND
2,4,6-Trichlorophenol	1	mg/kg	0.039	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.039	ND
2,6-Dinitrotoluene	1	mg/kg	0.039	ND
2-Chloronaphthalene	1	mg/kg	0.039	ND
2-Chlorophenol	1	mg/kg	0.039	ND
2-Methylnaphthalene	1	mg/kg	0.039	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.039	ND
2-Nitrophenol	1	mg/kg	0.039	ND
3&4-Methylphenol	1	mg/kg	0.011	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.039	ND
3-Nitroaniline	1	mg/kg	0.039	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.039	ND
4-Chloro-3-methylphenol	1	mg/kg	0.039	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.039	ND

Sample ID: SB-015SS
Lab#: AD28000-001
Matrix: Soil/Terracore

Collection Date: 12/17/2021
Receipt Date: 12/18/2021

4-Nitroaniline	1	mg/kg	0.039	ND
4-Nitrophenol	1	mg/kg	0.039	ND
Acenaphthene	1	mg/kg	0.039	ND
Acenaphthylene	1	mg/kg	0.039	ND
Acetophenone	1	mg/kg	0.039	ND
Anthracene	1	mg/kg	0.039	ND
Atrazine	1	mg/kg	0.039	ND
Benzaldehyde	1	mg/kg	0.43	ND
Benzidine	1	mg/kg	0.069	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.039**	**0.058**
Benzo[a]pyrene	**1**	**mg/kg**	**0.039**	**0.063**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.039**	**0.088**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.039**	**0.053**
Benzo[k]fluoranthene	1	mg/kg	0.039	ND
Benzyl alcohol	1	mg/kg	0.039	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.039	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0098	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.039	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.039	ND
Butylbenzylphthalate	1	mg/kg	0.039	ND
Caprolactam	1	mg/kg	0.039	ND
Carbazole	1	mg/kg	0.039	ND
Chrysene	**1**	**mg/kg**	**0.039**	**0.066**
Dibenzo[a,h]anthracene	1	mg/kg	0.039	ND
Dibenzofuran	1	mg/kg	0.0099	ND
Diethylphthalate	1	mg/kg	0.039	ND
Dimethylphthalate	1	mg/kg	0.039	ND
Di-n-butylphthalate	1	mg/kg	0.045	ND
Di-n-octylphthalate	1	mg/kg	0.039	ND
Fluoranthene	**1**	**mg/kg**	**0.039**	**0.071**
Fluorene	1	mg/kg	0.039	ND
Hexachlorobenzene	1	mg/kg	0.039	ND
Hexachlorobutadiene	1	mg/kg	0.039	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.039	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.039**	**0.042**
Isophorone	1	mg/kg	0.039	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.039	ND
N-Nitrosodimethylamine	1	mg/kg	0.048	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	1	mg/kg	0.039	ND
Phenol	1	mg/kg	0.039	ND
Pyrene	**1**	**mg/kg**	**0.039**	**0.071**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**71**	**78**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.744	mg/kg	0.0018	ND
1,1,2,2-Tetrachloroethane	0.744	mg/kg	0.0018	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.744	mg/kg	0.0018	ND
1,1,2-Trichloroethane	0.744	mg/kg	0.0018	ND

Sample ID:	**SB-015SS**
Lab#:	**AD28000-001**
Matrix:	**Soil/Terracore**
Collection Date:	**12/17/2021**
Receipt Date:	**12/18/2021**

1,1-Dichloroethane	0.744	mg/kg	0.0018	ND
1,1-Dichloroethene	0.744	mg/kg	0.0018	ND
1,2,3-Trichlorobenzene	0.744	mg/kg	0.0018	ND
1,2,4-Trichlorobenzene	0.744	mg/kg	0.0018	ND
1,2-Dibromo-3-chloropropane	0.744	mg/kg	0.0018	ND
1,2-Dibromoethane	0.744	mg/kg	0.00088	ND
1,2-Dichlorobenzene	0.744	mg/kg	0.0018	ND
1,2-Dichloroethane	0.744	mg/kg	0.0018	ND
1,2-Dichloropropane	0.744	mg/kg	0.0018	ND
1,3-Dichlorobenzene	0.744	mg/kg	0.0018	ND
1,4-Dichlorobenzene	0.744	mg/kg	0.0018	ND
1,4-Dioxane	0.744	mg/kg	0.088	ND
2-Butanone	0.744	mg/kg	0.0018	ND
2-Hexanone	0.744	mg/kg	0.0018	ND
4-Methyl-2-pentanone	0.744	mg/kg	0.0018	ND
Acetone	0.744	mg/kg	0.0088	ND
Acrolein	0.744	mg/kg	0.0088	ND
Acrylonitrile	0.744	mg/kg	0.0018	ND
Benzene	0.744	mg/kg	0.00088	ND
Bromochloromethane	0.744	mg/kg	0.0018	ND
Bromodichloromethane	0.744	mg/kg	0.0018	ND
Bromoform	0.744	mg/kg	0.0018	ND
Bromomethane	0.744	mg/kg	0.0018	ND
Carbon disulfide	0.744	mg/kg	0.0030	ND
Carbon tetrachloride	0.744	mg/kg	0.0018	ND
Chlorobenzene	0.744	mg/kg	0.0018	ND
Chloroethane	0.744	mg/kg	0.0018	ND
Chloroform	0.744	mg/kg	0.0018	ND
Chloromethane	0.744	mg/kg	0.0018	ND
cis-1,2-Dichloroethene	0.744	mg/kg	0.0018	ND
cis-1,3-Dichloropropene	0.744	mg/kg	0.0018	ND
Cyclohexane	0.744	mg/kg	0.0018	ND
Dibromochloromethane	0.744	mg/kg	0.0018	ND
Dichlorodifluoromethane	0.744	mg/kg	0.0018	ND
Ethylbenzene	0.744	mg/kg	0.00088	ND
Isopropylbenzene	0.744	mg/kg	0.00088	ND
m&p-Xylenes	0.744	mg/kg	0.0011	ND
Methyl Acetate	0.744	mg/kg	0.0018	ND
Methylcyclohexane	0.744	mg/kg	0.0018	ND
Methylene chloride	0.744	mg/kg	0.0018	ND
Methyl-t-butyl ether	0.744	mg/kg	0.00088	ND
o-Xylene	0.744	mg/kg	0.00088	ND
Styrene	0.744	mg/kg	0.0018	ND
t-Butyl Alcohol	0.744	mg/kg	0.0088	ND
Tetrachloroethene	0.744	mg/kg	0.0018	ND
Toluene	0.744	mg/kg	0.00088	ND
trans-1,2-Dichloroethene	0.744	mg/kg	0.0018	ND
trans-1,3-Dichloropropene	0.744	mg/kg	0.0018	ND
Trichloroethene	0.744	mg/kg	0.0018	ND
Trichlorofluoromethane	0.744	mg/kg	0.0018	ND
Vinyl chloride	0.744	mg/kg	0.0018	ND
Xylenes (Total)	0.744	mg/kg	0.00088	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 1121801

Project: CSA WMATA 0444100

Lab#: AD28000-001 **Sample ID: SB-015SS**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/21/21 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 10:07	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	12/22/21 10:52	JM
RCRA Metals 6010D	3005&10/3050	12/22/21 07:00	dlucca	EPA 6010D	12/22/21 10:33	DL
RCRA Metals ICP-MS 6020B	3005&10/3050	12/22/21 07:00	dlucca	EPA 6020B	12/22/21 10:43	PC
Semivolatile Organics (no search) 8270	3510C/3550C	12/29/21 10:12	AT	EPA 8270E	12/30/21 08:30	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	12/28/21 19:42	marie	EPA 8015D	12/30/21 10:07	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/21/21 17:47	SG

Chain of Custody

1121801 0010

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

Project# (Lab Use Only): 1121801

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlab - PA
Address: 2930 Eskridge Rd. Fairfax, VA 22031
1b) Email/Cell/Fax/Ph: landrus.acosta@interlab.com
1c) Send Invoice to: c+, rinzon.reynolds@interlab.com
1d) Send Report to:

Project Information

2a) Project: CSA INMATA 0444100
2b) Project Mgr:
2c) Project Location (City/State):
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # AD28000

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH-DRO/GRO/PCB	4 RCRA Metals								8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
001	SB-01555	S	12/17/21	1000		X	X	X	X	X								1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
FEDEX	FEDEX		
		12/18/21	10:40

11) Sampler (print name): RINZO REYNOLDS Date: 12/17/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2-0

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD28000 Entered By: Ricardo
Date Entered 12/18/2021 10:42:00 A

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.0
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD28000-001	12/18/21 10:40	RICAR	0	M	Received
AD28000-001	12/18/21 10:42	RICAR	0	M	Login
AD28000-001	12/18/21 10:48	R12	1	A	NONE
AD28000-001	12/20/21 22:01	R12	1	A	NONE
AD28000-001	12/20/21 22:01	PA	1	A	mx
AD28000-001	12/21/21 09:17	BCT	1	A	SOLIDS
AD28000-001	12/21/21 10:57	R12	1	A	NONE
AD28000-001	12/22/21 11:02	R12	1	A	NONE
AD28000-001	12/28/21 19:42	MSL	1	A	tph
AD28000-001	12/29/21 10:12	AT	1	A	BNA
AD28000-001	12/29/21 15:12	R12	1	A	NONE
AD28000-001	12/18/21 10:44	R31	2	A	NONE
AD28000-001	12/20/21 07:40	SG	2	M	VOA
AD28000-001	12/20/21 07:47	R31	2	A	NONE
AD28000-001	12/22/21 16:44	JM	2	A	GRO
AD28000-001	12/22/21 16:45	R31	2	A	NONE
AD28000-001	12/18/21 10:44	F19	3	A	NONE
AD28000-001	12/18/21 10:44	F19	4	A	NONE
AD28000-001	12/21/21 14:37	SG	4	A	VOA

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28000-001
Client Id: SB-015SS
Data File: 8M553454.D
Analysis Date: 12/21/21 17:47
Date Rec/Extracted: 12/18/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.72g
Final Vol: NA
Dilution: 0.744
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00088	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00088	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00088	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.088	U	75-09-2	Methylene Chloride	0.0018	U
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00088	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00088	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0088	U	75-65-0	t-Butyl Alcohol	0.0088	U
107-02-8	Acrolein	0.0088	U	127-18-4	Tetrachloroethene	0.0018	U
107-13-1	Acrylonitrile	0.0018	U	108-88-3	Toluene	0.00088	U
71-43-2	Benzene	0.00088	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
74-97-5	Bromochloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	79-01-6	Trichloroethene	0.0018	U
75-25-2	Bromoform	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-01-4	Vinyl Chloride	0.0018	U
75-15-0	Carbon Disulfide	0.0030	U	1330-20-7	Xylenes (Total)	0.00088	U

Workshcet #: 623710

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

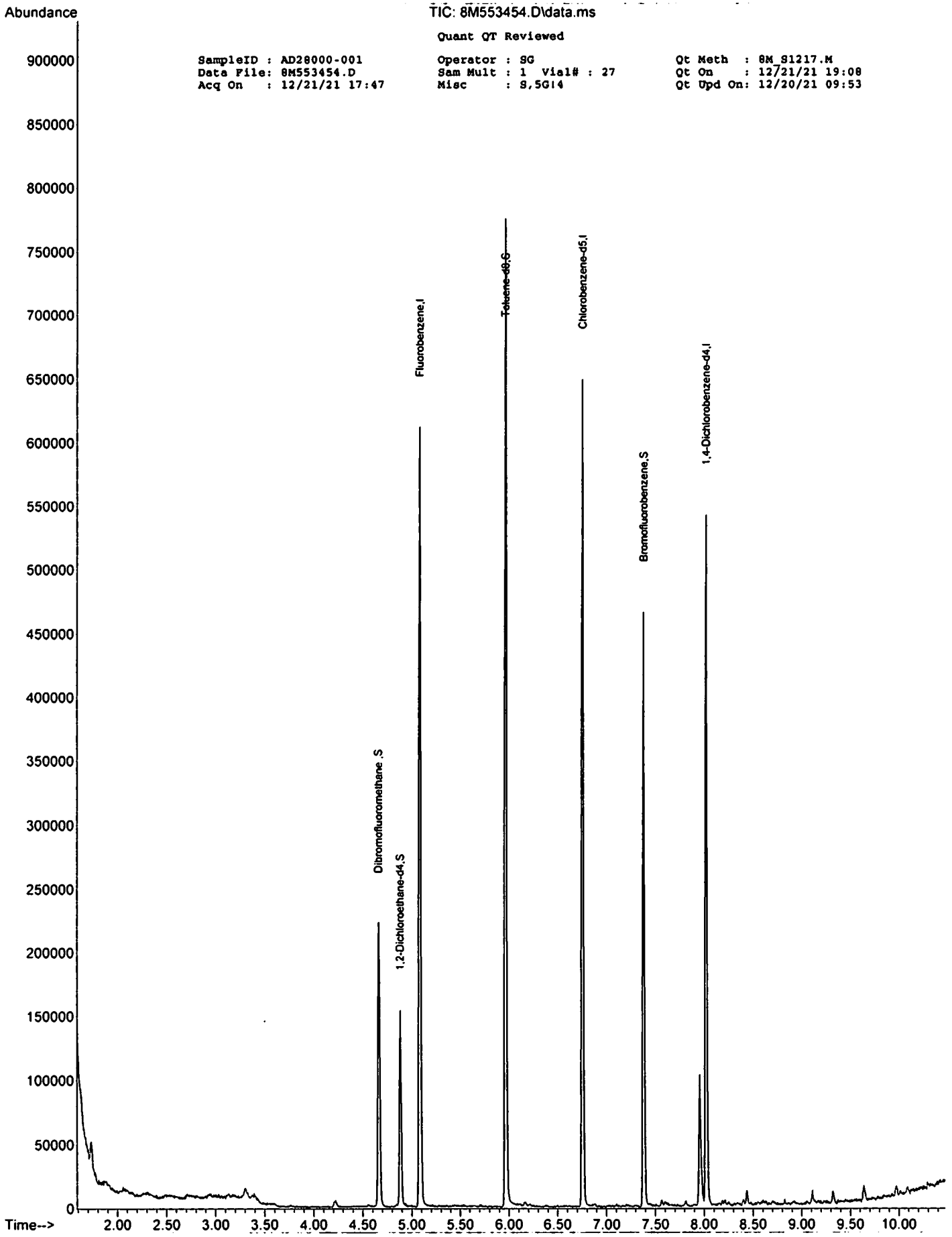
Quantitation Report (QT Reviewed)

SampleID : AD28000-001 Operator : SG Qt Meth : 8M_S1217.M
Data File: 8M553454.D Sam Mult : 1 Vial# : 27 Qt On : 12/21/21 19:08
Acq On : 12/21/21 17:47 Misc : S,5G!4 Qt Upd On: 12/20/21 09:53

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	374535	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	266012	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	109313	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	94657	30.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.10%			
39) 1,2-Dichloroethane-d4	4.883	67	37303	29.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.00%			
66) Toluene-d8	5.966	98	355124	31.27	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.23%			
76) Bromofluorobenzene	7.384	174	92163	34.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.10%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M553454.D\data.ms
Quant QT Reviewed
SampleID : AD28000-001
Data File: 8M553454.D
Acq On : 12/21/21 17:47
Operator : SG
Sam Mult : 1 Vial# : 27
Misc : S,5G14
Qt Meth : 8M_S1217.M
Qt On : 12/21/21 19:08
Qt Upd On: 12/20/21 09:53
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M553439.D
Analysis Date: 12/21/21 12:44
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0010	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	75-65-0	t-Butyl Alcohol	0.010	U
107-02-8	Acrolein	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
107-13-1	Acrylonitrile	0.0020	U	108-88-3	Toluene	0.0010	U
71-43-2	Benzene	0.0010	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
75-15-0	Carbon Disulfide	0.0034	U				

Worksheet #: 623710

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed)

SampleID : DAILY BLANK Operator : SG Qt Meth : 8M_S1217.M
Data File: 8M553439.D Sam Mult : 1 Vial# : 12 Qt On : 12/21/21 13:03
Acq On : 12/21/21 12:44 Misc : S,5G Qt Upd On: 12/20/21 09:53

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Qt Path : G:\GcMsData\2021\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.085	96	406792	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	308485	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.024	152	149573	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.664	111	97776	28.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.20%			
39) 1,2-Dichloroethane-d4	4.886	67	37709	27.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.13%			
66) Toluene-d8	5.966	98	397720	30.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.67%			
76) Bromofluorobenzene	7.384	174	111275	30.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.43%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

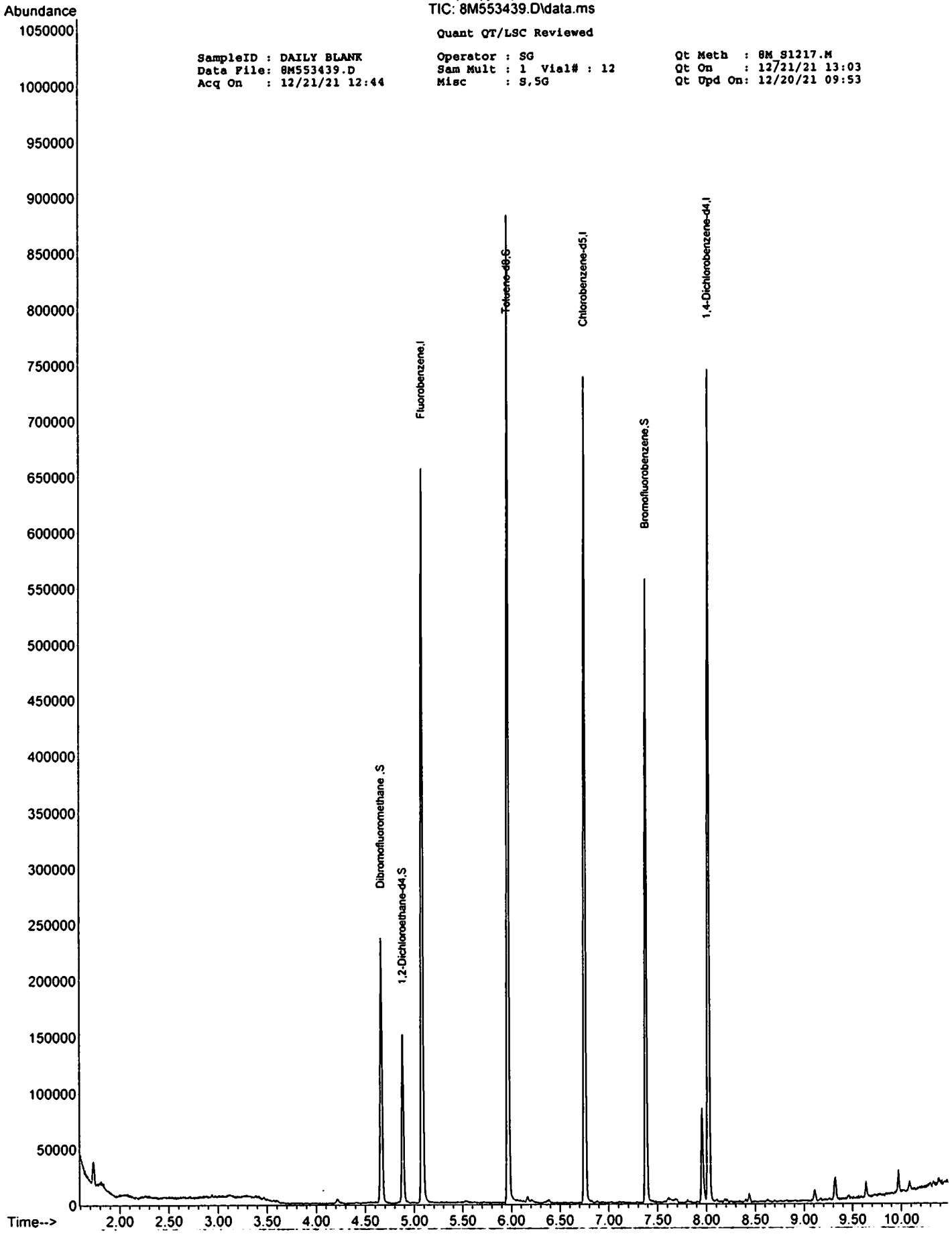
TIC: 8M553439.D\data.ms

Quant QT/LSC Reviewed

SampleID : DAILY BLANK
Data File: 8M553439.D
Acq On : 12/21/21 12:44

Operator : SG
Sam Mult : 1 Vial# : 12
Misc : S,SG

Qt Meth : 8M_S1217.M
Qt On : 12/21/21 13:03
Qt Upd On: 12/20/21 09:53



FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8M553439.D	DAILY BLANK	S	12/21/21 12:44	1		95	92	101	102		
8M553454.D	AD28000-001	S	12/21/21 17:47	1		100	99	104	116		
8M553445.D	AD27911-002(MS)	S	12/21/21 14:46	1		104	104	112	123		
8M553446.D	MBS98291	S	12/21/21 15:06	1		100	103	99	103		
8M553448.D	AD27911-002(MSD)	S	12/21/21 15:46	1		106	102	117	127		
8M553449.D	AD27911-002	S	12/21/21 16:06	1		102	103	111	121		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M553446.D	MBS98291	12/21/2021 3:06:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	68.9502	0	50	138*	20	130
Dichlorodifluoromethane	1	55.7916	0	50	112	20	130
Chloromethane	1	50.5142	0	50	101	20	130
Bromomethane	1	47.0275	0	50	94	20	130
Vinyl Chloride	1	55.0645	0	50	110	20	130
Chloroethane	1	44.6284	0	50	89	20	130
Trichlorofluoromethane	1	47.8679	0	50	96	20	130
Ethyl ether	1	49.5899	0	50	99	50	130
Furan	1	43.0093	0	50	86	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	54.5208	0	50	109	50	130
Methylene Chloride	1	46.9851	0	50	94	50	130
Acrolein	1	265.0486	0	200	133*	20	130
Acrylonitrile	1	56.17	0	50	112	20	130
Iodomethane	1	94.6132	0	50	189*	50	130
Acetone	1	200.6839	0	200	100	20	130
Carbon Disulfide	1	52.4604	0	50	105	50	130
t-Butyl Alcohol	1	247.7006	0	200	124	20	130
n-Hexane	1	58.9731	0	50	118	50	130
Di-isopropyl-ether	1	44.7789	0	50	90	50	130
1,1-Dichloroethene	1	46.0318	0	50	92	50	130
Methyl Acetate	1	45.1001	0	50	90	50	130
Methyl-t-butyl ether	1	53.8827	0	50	108	50	130
1,1-Dichloroethane	1	37.4242	0	50	75	50	130
trans-1,2-Dichloroethene	1	52.7275	0	50	105	50	130
Ethyl-t-butyl ether	1	54.8802	0	50	110	50	130
cis-1,2-Dichloroethene	1	48.9129	0	50	98	50	130
Bromochloromethane	1	46.2895	0	50	93	50	130
2,2-Dichloropropane	1	57.0783	0	50	114	50	130
Ethyl acetate	1	58.3916	0	50	117	50	130
1,4-Dioxane	1	2772.205	0	2500	111	50	130
1,1-Dichloropropene	1	52.7445	0	50	105	50	130
Chloroform	1	48.5375	0	50	97	50	130
Cyclohexane	1	58.3505	0	50	117	50	130
1,2-Dichloroethane	1	44.7708	0	50	90	50	130
2-Butanone	1	63.9583	0	50	128	20	130
1,1,1-Trichloroethane	1	34.282	0	50	69	50	130
Carbon Tetrachloride	1	48.8586	0	50	98	50	130
Vinyl Acetate	1	44.5897	0	50	89	50	130
Bromodichloromethane	1	47.6754	0	50	95	50	130
Methylcyclohexane	1	61.0548	0	50	122	50	130
Dibromomethane	1	57.2587	0	50	115	50	130
1,2-Dichloropropane	1	52.5155	0	50	105	50	130
Trichloroethene	1	51.4246	0	50	103	50	130
Benzene	1	53.3132	0	50	107	50	130
tert-Amyl methyl ether	1	46.7659	0	50	94	50	130
Iso-propylacetate	1	63.0406	0	50	126	50	130
Methyl methacrylate	1	50.4696	0	50	101	50	130
Dibromochloromethane	1	50.6756	0	50	101	50	130
2-Chloroethylvinylether	1	38.1291	0	50	76	50	130
cis-1,3-Dichloropropene	1	41.0617	0	50	82	50	130
trans-1,3-Dichloropropene	1	36.2317	0	50	72	50	130
Ethyl methacrylate	1	48.2478	0	50	96	50	130
1,1,2-Trichloroethane	1	53.7636	0	50	108	50	130
1,2-Dibromoethane	1	82.863	0	50	166*	50	130
1,3-Dichloropropane	1	54.9162	0	50	110	50	130
4-Methyl-2-Pentanone	1	48.3205	0	50	97	20	130
2-Hexanone	1	47.3175	0	50	95	20	130
Tetrachloroethene	1	52.1358	0	50	104	50	130
Toluene	1	52.2746	0	50	105	50	130
1,1,1,2-Tetrachloroethane	1	50.0871	0	50	100	50	130
Chlorobenzene	1	51.4443	0	50	103	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	54.6839	0	50	109	50	130
n-Amyl acetate	1	49.1052	0	50	98	50	130
Bromoform	**1**	**48.2997**	**0**	**50**	**97**	**20**	**130**
Ethylbenzene	**1**	**54.0464**	**0**	**50**	**108**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**59.991**	**0**	**50**	**120**	**50**	**130**
Styrene	**1**	**52.5497**	**0**	**50**	**105**	**50**	**130**
m&p-Xylenes	**1**	**113.224**	**0**	**100**	**113**	**50**	**130**
o-Xylene	**1**	**52.8991**	**0**	**50**	**106**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	51.9173	0	50	104	20	130
1,3-Dichlorobenzene	**1**	**55.7083**	**0**	**50**	**111**	**50**	**130**
1,4-Dichlorobenzene	**1**	**51.5959**	**0**	**50**	**103**	**50**	**130**
1,2-Dichlorobenzene	**1**	**55.3207**	**0**	**50**	**111**	**50**	**130**
Isopropylbenzene	**1**	**54.156**	**0**	**50**	**108**	**50**	**130**
Cyclohexanone	1	227.6235	0	250	91	50	130
Camphene	1	58.2643	0	50	117	50	130
1,2,3-Trichloropropane	1	53.3824	0	50	107	50	130
2-Chlorotoluene	1	54.6441	0	50	109	50	130
p-Ethyltoluene	1	59.5669	0	50	119	50	130
4-Chlorotoluene	1	53.9214	0	50	108	50	130
n-Propylbenzene	1	55.1411	0	50	110	50	130
Bromobenzene	1	58.9873	0	50	118	50	130
1,3,5-Trimethylbenzene	1	54.2051	0	50	108	50	130
Butyl methacrylate	1	51.5108	0	50	103	50	130
t-Butylbenzene	1	59.9237	0	50	120	50	130
1,2,4-Trimethylbenzene	1	58.8437	0	50	118	50	130
sec-Butylbenzene	1	63.6639	0	50	127	50	130
4-Isopropyltoluene	1	46.8016	0	50	94	50	130
n-Butylbenzene	1	61.7931	0	50	124	50	130
p-Diethylbenzene	1	62.2275	0	50	124	50	130
1,2,4,5-Tetramethylbenzene	1	65.5078	0	50	131*	50	130
1,2-Dibromo-3-Chloropropane	**1**	**49.0273**	**0**	**50**	**98**	**50**	**130**
Camphor	1	705.3974	0	500	141*	50	130
Hexachlorobutadiene	1	51.5519	0	50	103	50	130
1,2,4-Trichlorobenzene	**1**	**50.7355**	**0**	**50**	**101**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**53.2717**	**0**	**50**	**107**	**50**	**130**
Naphthalene	1	40.3354	0	50	81	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553445.D	AD27911-002(MS)	12/21/2021 2:46:00 PM
Non Spike(If applicable):	8M553449.D	AD27911-002	12/21/2021 4:06:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	55.3493	0	50	111	20	130
Dichlorodifluoromethane	1	46.2107	0	50	92	20	130
Chloromethane	1	39.7361	0	50	79	20	130
Bromomethane	1	32.3571	0	50	65	20	130
Vinyl Chloride	1	44.1413	0	50	88	20	130
Chloroethane	1	34.3017	0	50	69	20	130
Trichlorofluoromethane	1	38.2659	0	50	77	20	130
Ethyl ether	1	41.8544	0	50	84	50	130
Furan	1	39.6917	0	50	79	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	41.327	0	50	83	50	130
Methylene Chloride	1	69.5431	34.32	50	70	50	130
Acrolein	1	87.6083	0	200	44	20	130
Acrylonitrile	1	33.9626	0	50	68	20	130
Iodomethane	1	53.2445	0	50	106	50	130
Acetone	1	166.5466	0	200	83	20	130
Carbon Disulfide	1	29.1716	0	50	58	50	130
t-Butyl Alcohol	1	209.0618	0	200	105	20	130
n-Hexane	1	28.2489	0	50	56	50	130
Di-isopropyl-ether	1	27.3508	0	50	55	50	130
1,1-Dichloroethene	1	37.3363	0	50	75	50	130
Methyl Acetate	1	35.7275	0	50	71	50	130
Methyl-t-butyl ether	1	52.3797	0	50	105	50	130
1,1-Dichloroethane	1	22.761	0	50	46*	50	130
trans-1,2-Dichloroethene	1	32.2496	0	50	64	50	130
Ethyl-t-butyl ether	1	48.699	0	50	97	50	130
cis-1,2-Dichloroethene	1	29.0554	0	50	58	50	130
Bromochloromethane	1	30.9533	0	50	62	50	130
2,2-Dichloropropane	1	41.7655	0	50	84	50	130
Ethyl acetate	1	4.6849	0	50	9.4*	50	130
1,4-Dioxane	1	2345.637	0	2500	94	50	130
1,1-Dichloropropene	1	31.8258	0	50	64	50	130
Chloroform	1	35.1667	0	50	70	50	130
Cyclohexane	1	34.4609	0	50	69	50	130
1,2-Dichloroethane	1	30.4759	0	50	61	50	130
2-Butanone	1	5.0605	0	50	10*	20	130
1,1,1-Trichloroethane	1	15.5138	0	50	31*	50	130
Carbon Tetrachloride	1	33.4965	0	50	67	50	130
Vinyl Acetate	1	23.9958	0	50	48*	50	130
Bromodichloromethane	1	31.883	0	50	64	50	130
Methylcyclohexane	1	28.2833	0	50	57	50	130
Dibromomethane	1	33.4842	0	50	67	50	130
1,2-Dichloropropane	1	37.5754	0	50	75	50	130
Trichloroethene	1	29.7319	0	50	59	50	130
Benzene	1	37.382	0	50	75	50	130
tert-Amyl methyl ether	1	50.6883	0	50	101	50	130
Iso-propylacetate	1	7.9753	0	50	16*	50	130
Methyl methacrylate	1	49.2983	0	50	99	50	130
Dibromochloromethane	1	34.2351	0	50	68	50	130
2-Chloroethylvinylether	1	20.3548	0	50	41*	50	130
cis-1,3-Dichloropropene	1	16.316	0	50	33*	50	130
trans-1,3-Dichloropropene	1	12.343	0	50	25*	50	130
Ethyl methacrylate	1	5.2039	0	50	10*	50	130
1,1,2-Trichloroethane	1	39.6537	0	50	79	50	130
1,2-Dibromoethane	1	51.803	0	50	104	50	130
1,3-Dichloropropane	1	37.9052	0	50	76	50	130
4-Methyl-2-Pentanone	1	27.3469	0	50	55	20	130
2-Hexanone	1	15.8807	0	50	32	20	130
Tetrachloroethene	1	32.6965	0	50	65	50	130
Toluene	1	36.9017	0	50	74	50	130
1,1,1,2-Tetrachloroethane	1	34.0583	0	50	68	50	130
Chlorobenzene	1	28.2055	0	50	56	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	2.8947	0	50	5.8*	50	130
n-Amyl acetate	1	0	0	50	0*	50	130
Bromoform	1	35.7627	0	50	72	20	130
Ethylbenzene	1	47.6857	0	50	95	50	130
1,1,2,2-Tetrachloroethane	1	46.253	0	50	93	50	130
Styrene	1	33.7344	0	50	67	50	130
m&p-Xylenes	1	93.4972	1.4277	100	92	50	130
o-Xylene	1	44.6062	0	50	89	50	130
trans-1,4-Dichloro-2-butene	1	29.246	0	50	58	20	130
1,3-Dichlorobenzene	1	25.1751	0	50	50	50	130
1,4-Dichlorobenzene	1	21.665	0	50	43*	50	130
1,2-Dichlorobenzene	1	24.078	0	50	48*	50	130
Isopropylbenzene	1	43.4651	0	50	87	50	130
Cyclohexanone	1	111.5231	0	250	45*	50	130
Camphene	1	34.337	0	50	69	50	130
1,2,3-Trichloropropane	1	41.487	0	50	83	50	130
2-Chlorotoluene	1	36.6999	0	50	73	50	130
p-Ethyltoluene	1	39.9053	0	50	80	50	130
4-Chlorotoluene	1	30.9637	0	50	62	50	130
n-Propylbenzene	1	37.8157	0	50	76	50	130
Bromobenzene	1	32.447	0	50	65	50	130
1,3,5-Trimethylbenzene	1	38.0837	0	50	76	50	130
Butyl methacrylate	1	9.534	0	50	19*	50	130
t-Butylbenzene	1	41.0813	0	50	82	50	130
1,2,4-Trimethylbenzene	1	37.8698	0	50	76	50	130
sec-Butylbenzene	1	39.1407	0	50	78	50	130
4-Isopropyltoluene	1	27.9102	0	50	56	50	130
n-Butylbenzene	1	31.1793	0	50	62	50	130
p-Diethylbenzene	1	31.4653	0	50	63	50	130
1,2,4,5-Tetramethylbenzene	1	28.4355	0	50	57	50	130
1,2-Dibromo-3-Chloropropane	1	32.3984	0	50	65	50	130
Camphor	1	376.3719	0	500	75	50	130
Hexachlorobutadiene	1	18.5352	0	50	37*	50	130
1,2,4-Trichlorobenzene	1	11.8978	0	50	24*	50	130
1,2,3-Trichlorobenzene	1	12.7418	2.406	50	21*	50	130
Naphthalene	1	13.8288	0	50	28*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553448.D	AD27911-002(MSD)	12/21/2021 3:46:00 PM
Non Spike(If applicable):	8M553449.D	AD27911-002	12/21/2021 4:06:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	47.459	0	50	95	20	130
Dichlorodifluoromethane	1	56.0524	0	50	112	20	130
Chloromethane	1	50.6459	0	50	101	20	130
Bromomethane	1	38.7841	0	50	78	20	130
Vinyl Chloride	1	50.1601	0	50	100	20	130
Chloroethane	1	40.7136	0	50	81	20	130
Trichlorofluoromethane	1	45.2013	0	50	90	20	130
Ethyl ether	1	51.7549	0	50	104	50	130
Furan	1	39.9669	0	50	80	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	47.1111	0	50	94	50	130
Methylene Chloride	1	105.8442	34.32	50	143*	50	130
Acrolein	1	90.4074	0	200	45	20	130
Acrylonitrile	1	32.2689	0	50	65	20	130
Iodomethane	1	69.8025	0	50	140*	50	130
Acetone	1	198.9865	0	200	99	20	130
Carbon Disulfide	1	31.6607	0	50	63	50	130
t-Butyl Alcohol	1	258.5145	0	200	129	20	130
n-Hexane	1	32.7376	0	50	65	50	130
Di-isopropyl-ether	1	46.6257	0	50	93	50	130
1,1-Dichloroethene	1	42.5326	0	50	85	50	130
Methyl Acetate	1	36.3313	0	50	73	50	130
Methyl-t-butyl ether	1	70.828	0	50	142*	50	130
1,1-Dichloroethane	1	30.0411	0	50	60	50	130
trans-1,2-Dichloroethene	1	34.7341	0	50	69	50	130
Ethyl-t-butyl ether	1	67.5935	0	50	135*	50	130
cis-1,2-Dichloroethene	1	31.1454	0	50	62	50	130
Bromochloromethane	1	33.9662	0	50	68	50	130
2,2-Dichloropropane	1	46.9268	0	50	94	50	130
Ethyl acetate	1	6.5298	0	50	13*	50	130
1,4-Dioxane	1	2989.324	0	2500	120	50	130
1,1-Dichloropropene	1	35.5622	0	50	71	50	130
Chloroform	1	41.9367	0	50	84	50	130
Cyclohexane	1	39.4754	0	50	79	50	130
1,2-Dichloroethane	1	32.6721	0	50	65	50	130
2-Butanone	1	8.6167	0	50	17*	20	130
1,1,1-Trichloroethane	1	21.0789	0	50	42*	50	130
Carbon Tetrachloride	1	39.4335	0	50	79	50	130
Vinyl Acetate	1	41.4581	0	50	83	50	130
Bromodichloromethane	1	35.4149	0	50	71	50	130
Methylcyclohexane	1	33.576	0	50	67	50	130
Dibromomethane	1	32.6581	0	50	65	50	130
1,2-Dichloropropane	1	43.4892	0	50	87	50	130
Trichloroethene	1	32.5285	0	50	65	50	130
Benzene	1	41.0317	0	50	82	50	130
tert-Amyl methyl ether	1	61.9687	0	50	124	50	130
Iso-propylacetate	1	18.2089	0	50	36*	50	130
Methyl methacrylate	1	47.8571	0	50	96	50	130
Dibromochloromethane	1	39.2349	0	50	78	50	130
2-Chloroethylvinylether	1	24.6469	0	50	49*	50	130
cis-1,3-Dichloropropene	1	21.0561	0	50	42*	50	130
trans-1,3-Dichloropropene	1	16.7229	0	50	33*	50	130
Ethyl methacrylate	1	7.623	0	50	15*	50	130
1,1,2-Trichloroethane	1	47.159	0	50	94	50	130
1,2-Dibromoethane	1	47.9778	0	50	96	50	130
1,3-Dichloropropane	1	42.5549	0	50	85	50	130
4-Methyl-2-Pentanone	1	33.5739	0	50	67	20	130
2-Hexanone	1	16.9136	0	50	34	20	130
Tetrachloroethene	1	40.3045	0	50	81	50	130
Toluene	1	44.4767	0	50	89	50	130
1,1,1,2-Tetrachloroethane	1	43.005	0	50	86	50	130
Chlorobenzene	1	31.9309	0	50	64	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	7.7166	0	50	15*	50	130
n-Amyl acetate	1	8.0794	0	50	16*	50	130
Bromoform	1	42.8727	0	50	86	20	130
Ethylbenzene	1	56.6643	0	50	113	50	130
1,1,2,2-Tetrachloroethane	1	62.1499	0	50	124	50	130
Styrene	1	41.1268	0	50	82	50	130
m&p-Xylenes	1	118.1485	1.4277	100	117	50	130
o-Xylene	1	55.9408	0	50	112	50	130
trans-1,4-Dichloro-2-butene	1	40.4581	0	50	81	20	130
1,3-Dichlorobenzene	1	31.9062	0	50	64	50	130
1,4-Dichlorobenzene	1	28.467	0	50	57	50	130
1,2-Dichlorobenzene	1	29.9693	0	50	60	50	130
Isopropylbenzene	1	55.4047	0	50	111	50	130
Cyclohexanone	1	193.3875	0	250	77	50	130
Camphene	1	49.2071	0	50	98	50	130
1,2,3-Trichloropropane	1	50.7127	0	50	101	50	130
2-Chlorotoluene	1	45.3686	0	50	91	50	130
p-Ethyltoluene	1	51.2233	0	50	102	50	130
4-Chlorotoluene	1	36.097	0	50	72	50	130
n-Propylbenzene	1	49.5037	0	50	99	50	130
Bromobenzene	1	39.0445	0	50	78	50	130
1,3,5-Trimethylbenzene	1	50.1551	0	50	100	50	130
Butyl methacrylate	1	22.0138	0	50	44*	50	130
t-Butylbenzene	1	54.5501	0	50	109	50	130
1,2,4-Trimethylbenzene	1	49.0965	0	50	98	50	130
sec-Butylbenzene	1	53.3009	0	50	107	50	130
4-Isopropyltoluene	1	37.3526	0	50	75	50	130
n-Butylbenzene	1	43.6715	0	50	87	50	130
p-Diethylbenzene	1	44.0103	0	50	88	50	130
1,2,4,5-Tetramethylbenzene	1	40.8248	0	50	82	50	130
1,2-Dibromo-3-Chloropropane	1	33.2178	0	50	66	50	130
Camphor	1	1809.99	0	500	362*	50	130
Hexachlorobutadiene	1	26.4439	0	50	53	50	130
1,2,4-Trichlorobenzene	1	20.7675	0	50	42*	50	130
1,2,3-Trichlorobenzene	1	22.3147	2.406	50	40*	50	130
Naphthalene	1	23.3995	0	50	47*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98291

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M553448.D	AD27911-002(MSD)	12/21/2021 3:46:00 PM
Duplicate(If applicable):	8M553445.D	AD27911-002(MS)	12/21/2021 2:46:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	47.459	55.3493	15	30
Dichlorodifluoromethane	1	56.0524	46.2107	19	30
Chloromethane	1	50.6459	39.7361	24	30
Bromomethane	1	38.7841	32.3571	18	30
Vinyl Chloride	1	50.1601	44.1413	13	40
Chloroethane	1	40.7136	34.3017	17	30
Trichlorofluoromethane	1	45.2013	38.2659	17	30
Ethyl ether	1	51.7549	41.8544	21	30
Furan	1	39.9669	39.6917	0.69	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	47.1111	41.327	13	30
Methylene Chloride	1	105.8442	69.5431	41*	30
Acrolein	1	90.4074	87.6083	3.1	30
Acrylonitrile	1	32.2689	33.9626	5.1	30
Iodomethane	1	69.8025	53.2445	27	30
Acetone	1	198.9865	166.5466	18	30
Carbon Disulfide	1	31.6607	29.1716	8.2	30
t-Butyl Alcohol	1	258.5145	209.0618	21	30
n-Hexane	1	32.7376	28.2489	15	30
Di-isopropyl-ether	1	46.6257	27.3508	52*	30
1,1-Dichloroethene	1	42.5326	37.3363	13	40
Methyl Acetate	1	36.3313	35.7275	1.7	30
Methyl-t-butyl ether	1	70.828	52.3797	30	30
1,1-Dichloroethane	1	30.0411	22.761	28	40
trans-1,2-Dichloroethene	1	34.7341	32.2496	7.4	30
Ethyl-t-butyl ether	1	67.5935	48.699	32*	30
cis-1,2-Dichloroethene	1	31.1454	29.0554	6.9	30
Bromochloromethane	1	33.9662	30.9533	9.3	30
2,2-Dichloropropane	1	46.9268	41.7655	12	30
Ethyl acetate	1	6.5298	4.6849	33*	30
1,4-Dioxane	1	2989.324	2345.637	24	30
1,1-Dichloropropene	1	35.5622	31.8258	11	30
Chloroform	1	41.9367	35.1667	18	40
Cyclohexane	1	39.4754	34.4609	14	30
1,2-Dichloroethane	1	32.6721	30.4759	7	40
2-Butanone	1	8.6167	5.0605	52*	40
1,1,1-Trichloroethane	1	21.0789	15.5138	30	30
Carbon Tetrachloride	1	39.4335	33.4965	16	40
Vinyl Acetate	1	41.4581	23.9958	53*	30
Bromodichloromethane	1	35.4149	31.883	10	30
Methylcyclohexane	1	33.576	28.2833	17	30
Dibromomethane	1	32.6581	33.4842	2.5	30
1,2-Dichloropropane	1	43.4892	37.5754	15	30
Trichloroethene	1	32.5285	29.7319	9	40
Benzene	1	41.0317	37.382	9.3	40
tert-Amyl methyl ether	1	61.9687	50.6883	20	30
Iso-propylacetate	1	18.2089	7.9753	78*	30
Methyl methacrylate	1	47.8571	49.2983	3	30
Dibromochloromethane	1	39.2349	34.2351	14	30
2-Chloroethylvinylether	1	24.6469	20.3548	19	30
cis-1,3-Dichloropropene	1	21.0561	16.316	25	30
trans-1,3-Dichloropropene	1	16.7229	12.343	30	30
Ethyl methacrylate	1	7.623	5.2039	38*	30
1,1,2-Trichloroethane	1	47.159	39.6537	17	30
1,2-Dibromoethane	1	47.9778	51.803	7.7	30
1,3-Dichloropropane	1	42.5549	37.9052	12	30
4-Methyl-2-Pentanone	1	33.5739	27.3469	20	30
2-Hexanone	1	16.9136	15.8807	6.3	30
Tetrachloroethene	1	40.3045	32.6965	21	40
Toluene	1	44.4767	36.9017	19	40
1,1,1,2-Tetrachloroethane	1	43.005	34.0583	23	30
Chlorobenzene	1	31.9309	28.2055	12	40

* - Indicates outside of limits NA - Both concentrations=0::-no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS98291

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	7.7166	2.8947	91*	30
n-Amyl acetate	1	8.0794	0	200*	30
Bromoform	**1**	**42.8727**	**35.7627**	**18**	**30**
Ethylbenzene	**1**	**56.6643**	**47.6857**	**17**	**30**
1,1,2,2-Tetrachloroethane	**1**	**62.1499**	**46.253**	**29**	**30**
Styrene	**1**	**41.1268**	**33.7344**	**20**	**30**
m&p-Xylenes	**1**	**118.1485**	**93.4972**	**23**	**30**
o-Xylene	**1**	**55.9408**	**44.6062**	**23**	**30**
trans-1,4-Dichloro-2-butene	1	40.4581	29.246	32*	30
1,3-Dichlorobenzene	**1**	**31.9062**	**25.1751**	**24**	**30**
1,4-Dichlorobenzene	**1**	**28.467**	**21.665**	**27**	**40**
1,2-Dichlorobenzene	**1**	**29.9693**	**24.078**	**22**	**40**
Isopropylbenzene	**1**	**55.4047**	**43.4651**	**24**	**30**
Cyclohexanone	1	193.3875	111.5231	54*	30
Camphene	1	49.2071	34.337	36*	30
1,2,3-Trichloropropane	1	50.7127	41.487	20	30
2-Chlorotoluene	1	45.3686	36.6999	21	30
p-Ethyltoluene	1	51.2233	39.9053	25	30
4-Chlorotoluene	1	36.097	30.9637	15	30
n-Propylbenzene	1	49.5037	37.8157	27	40
Bromobenzene	1	39.0445	32.447	18	30
1,3,5-Trimethylbenzene	1	50.1551	38.0837	27	30
Butyl methacrylate	1	22.0138	9.534	79*	30
t-Butylbenzene	1	54.5501	41.0813	28	30
1,2,4-Trimethylbenzene	1	49.0965	37.8698	26	30
sec-Butylbenzene	1	53.3009	39.1407	31	40
4-Isopropyltoluene	1	37.3526	27.9102	29	30
n-Butylbenzene	1	43.6715	31.1793	33*	30
p-Diethylbenzene	1	44.0103	31.4653	33*	30
1,2,4,5-Tetramethylbenzene	1	40.8248	28.4355	36*	30
1,2-Dibromo-3-Chloropropane	**1**	**33.2178**	**32.3984**	**2.5**	**30**
Camphor	1	1809.99	376.3719	131*	30
Hexachlorobutadiene	1	26.4439	18.5352	35*	30
1,2,4-Trichlorobenzene	**1**	**20.7675**	**11.8978**	**54***	**30**
1,2,3-Trichlorobenzene	**1**	**22.3147**	**12.7418**	**55***	**30**
Naphthalene	1	23.3995	13.8288	51*	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M553439.D
Matrix: Soil

Blank Analysis Date: 12/21/21 12:44
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD28000-001	8M553454.D	12/21/21 17:47
AD27911-002	8M553449.D	12/21/21 16:06
AD27911-002(MSD	8M553448.D	12/21/21 15:46
MBS98291	8M553446.D	12/21/21 15:06
AD27911-002(MS)	8M553445.D	12/21/21 14:46

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 8M553313.D
Analysis Date: 12/17/21 22:25
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.359 to 7.394 min

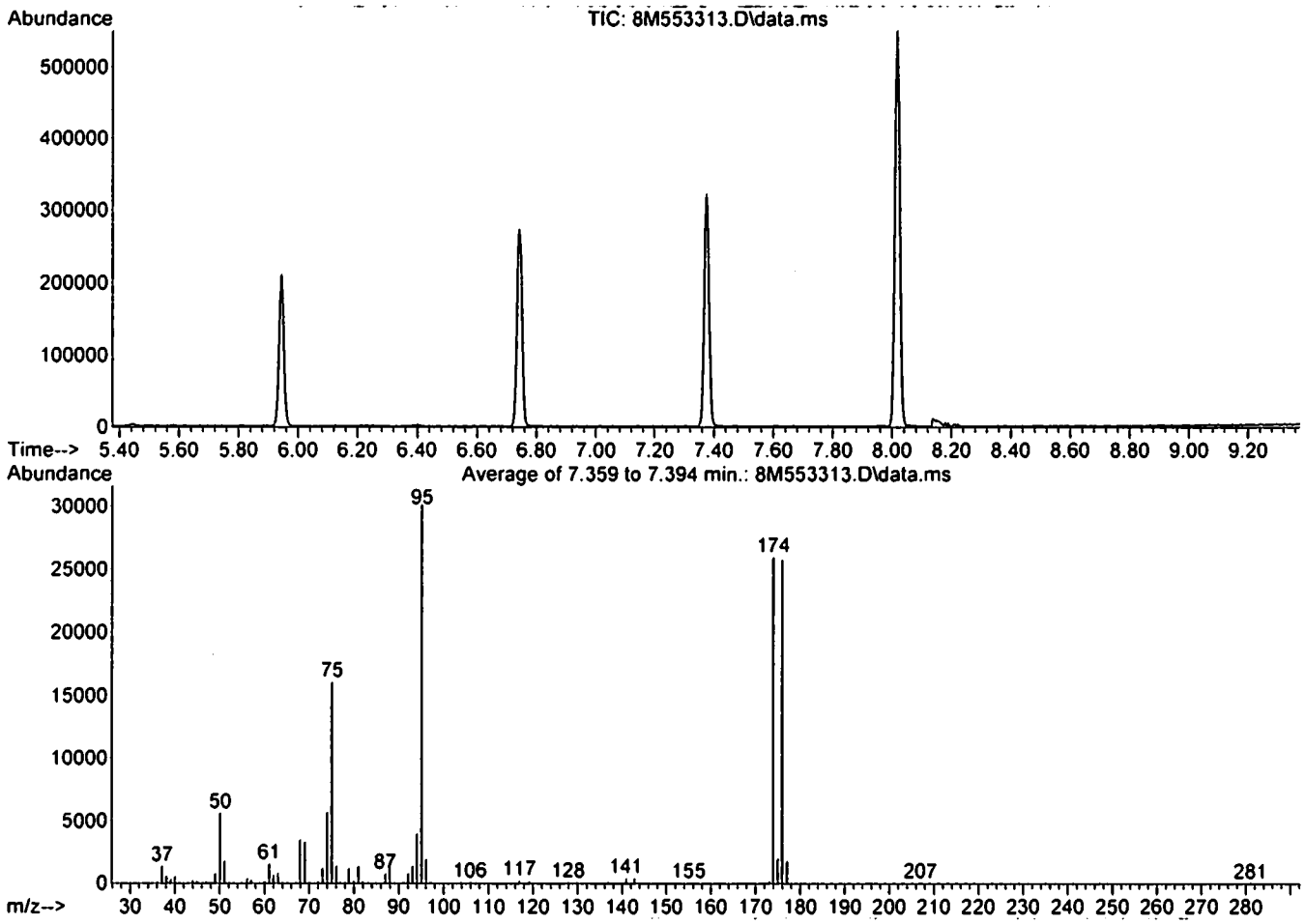
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	5648	PASS
75	95	30	60	53.4	16104	PASS
95	95	100	100	100.0	30163	PASS
96	95	5	9	6.5	1970	PASS
173	174	0.00	2	0.7	190	PASS
174	95	50	100	86.2	25991	PASS
175	174	5	9	7.8	2035	PASS
176	174	95	101	99.3	25801	PASS
177	176	5	9	7.2	1854	PASS

Data File	Sample Number	Analysis Date:
8M553317.D	CAL @ 5 PPB	12/17/21 23:46
8M553318.D	CAL @ 2 PPB	12/18/21 00:06
8M553319.D	CAL @ 1 PPB	12/18/21 00:27
8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47
8M553321.D	CAL @ 20 PPB	12/18/21 01:07
8M553322.D	CAL @ 50 PPB	12/18/21 01:27
8M553323.D	CAL @100 PPB	12/18/21 01:48
8M553324.D	CAL @ 250 PPB	12/18/21 02:08
8M553325.D	CAL @ 500 PPB	12/18/21 02:28
8M553330.D	ICV	12/18/21 04:09
8M553334.D	STD	12/18/21 05:30
8M553335.D	BLK	12/18/21 05:50
8M553336.D	BLK	12/18/21 06:11
8M553337.D	BLK	12/18/21 06:31
8M553338.D	BLK	12/18/21 06:51
8M553339.D	BLK	12/18/21 07:11
8M553340.D	BLK	12/18/21 07:32
8M553341.D	DAILY BLANK	12/18/21 07:52
8M553342.D	AD27831-002	12/18/21 08:12
8M553343.D	AD27831-004	12/18/21 08:32
8M553344.D	AD27831-005	12/18/21 08:53
8M553345.D	AD27831-006	12/18/21 09:13
8M553346.D	AD27840-002	12/18/21 09:33
8M553347.D	AD27697-002	12/18/21 09:54
8M553348.D	MBS98260	12/18/21 10:14
8M553349.D	MBS98261	12/18/21 10:34
8M553350.D	BLK	12/18/21 10:54
8M553351.D	BLK	12/18/21 11:15
8M553352.D	BLK	12/18/21 11:35
8M553353.D	BLK	12/18/21 11:55
8M553354.D	BLK	12/20/21 06:40
8M553355.D	BLK	12/20/21 07:01

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-1721\
Data File : 8M553313.D
Acq On : 17 Dec 2021 22:25
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_11\MethodQt\11M_A1203.M
Title : @GCMS_11,ug,624,8260
Last Update : Mon Dec 06 16:37:09 2021



Spectrum Information: Average of 7.359 to 7.394 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	5648	PASS
75	95	30	60	53.4	16104	PASS
95	95	100	100	100.0	30163	PASS
96	95	5	9	6.5	1970	PASS
173	174	0.00	2	0.7	190	PASS
174	95	50	100	86.2	25991	PASS
175	174	5	9	7.8	2035	PASS
176	174	95	101	99.3	25801	PASS
177	176	5	9	7.2	1854	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M553432.D
Analysis Date: 12/21/21 10:23
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.368 to 7.394 min

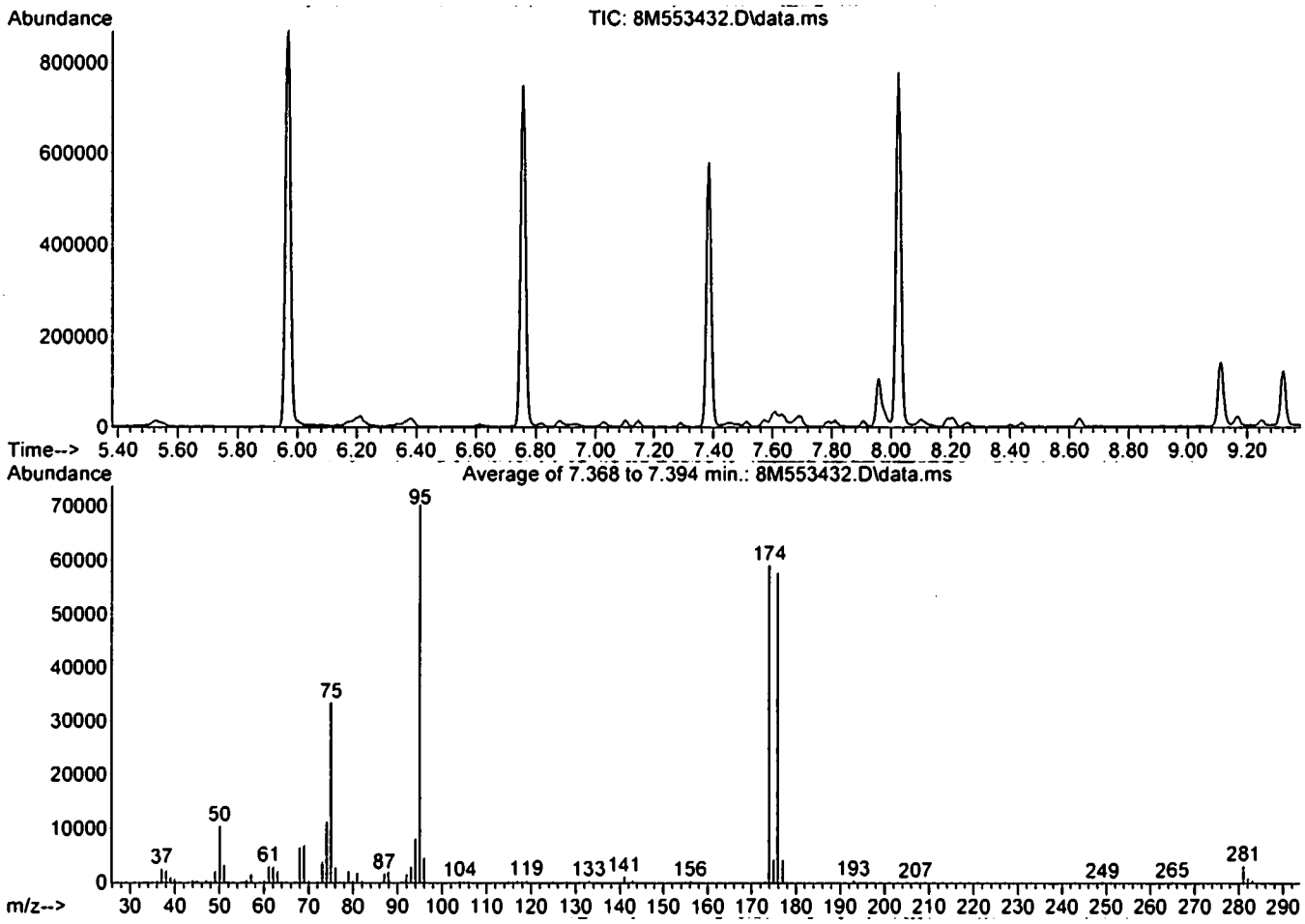
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.0	10561	PASS
75	95	30	60	47.8	33651	PASS
95	95	100	100	100.0	70402	PASS
96	95	5	9	6.6	4662	PASS
173	174	0.00	2	0.7	412	PASS
174	95	50	100	84.1	59222	PASS
175	174	5	9	7.5	4446	PASS
176	174	95	101	97.7	57857	PASS
177	176	5	9	7.4	4303	PASS

Data File	Sample Number	Analysis Date:
8M553433.D	50 PPB	12/21/21 10:43
8M553434.D	CAL @ 50 PPB	12/21/21 11:04
8M553435.D	BLK	12/21/21 11:24
8M553436.D	BLK	12/21/21 11:44
8M553437.D	BLK	12/21/21 12:04
8M553438.D	BLK	12/21/21 12:24
8M553439.D	DAILY BLANK	12/21/21 12:44
8M553440.D	AD27953-002	12/21/21 13:05
8M553441.D	AD27953-001	12/21/21 13:25
8M553442.D	AD27950-001	12/21/21 13:45
8M553443.D	AD27983-001	12/21/21 14:05
8M553444.D	AD27883-003	12/21/21 14:26
8M553445.D	AD27911-002(MS)	12/21/21 14:46
8M553446.D	MBS98291	12/21/21 15:06
8M553447.D	MBS98292	12/21/21 15:26
8M553448.D	AD27911-002(MSD	12/21/21 15:46
8M553449.D	AD27911-002	12/21/21 16:06
8M553450.D	BLK	12/21/21 16:27
8M553451.D	BLK	12/21/21 16:47
8M553452.D	AD27952-003	12/21/21 17:07
8M553453.D	AD27952-001	12/21/21 17:27
8M553454.D	AD28000-001	12/21/21 17:47
8M553455.D	AD27963-001	12/21/21 18:08
8M553456.D	AD27963-002	12/21/21 18:28
8M553457.D	AD27963-003	12/21/21 18:48
8M553458.D	AD27961-003	12/21/21 19:08
8M553459.D	AD27961-002	12/21/21 19:29
8M553460.D	AD27961-001	12/21/21 19:49
8M553461.D	AD27990-006	12/21/21 20:09
8M553462.D	AD27993-001	12/21/21 20:29
8M553463.D	AD27993-002	12/21/21 20:49
8M553464.D	AD27981-004	12/21/21 21:10
8M553465.D	AD27992-012	12/21/21 21:30
8M553466.D	AD27992-011	12/21/21 21:50
8M553467.D	BLK	12/21/21 22:10

Data Path : G:\GcMsData\2021\GCMS_8\Data\12-21-21\
Data File : 8M553432.D
Acq On : 21 Dec 2021 10:23
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_8\MethodQt\8M_S1217.M
Title : @GCMS_8,ug,624,8260
Last Update : Mon Dec 20 09:34:40 2021



Spectrum Information: Average of 7.368 to 7.394 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	10561	PASS
75	95	30	60	47.8	33651	PASS
95	95	100	100	100.0	70402	PASS
96	95	5	9	6.6	4662	PASS
173	174	0.00	2	0.7	412	PASS
174	95	50	100	84.1	59222	PASS
175	174	5	9	7.5	4446	PASS
176	174	95	101	97.7	57857	PASS
177	176	5	9	7.4	4303	PASS

1121801 0034

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M553321.D	CAL @ 20 PPB	12/18/21 01:07	2	8M553317.D	CAL @ 5 PPB	12/17/21 23:46
3	8M553318.D	CAL @ 2 PPB	12/18/21 00:06	4	8M553322.D	CAL @ 50 PPB	12/18/21 01:27
5	8M553323.D	CAL @100 PPB	12/18/21 01:48	6	8M553324.D	CAL @ 250 PPB	12/18/21 02:08
7	8M553325.D	CAL @ 500 PPB	12/18/21 02:28	8	8M553319.D	CAL @ 1 PPB	12/18/21 00:27
9	8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2524	0.2590	0.2187	0.2749	0.2991	0.2943	0.2471	----	----	0.264	1.66	0.991	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.1944	0.2013	0.1932	0.2123	0.2362	0.2338	0.1965	----	----	0.210	1.66	0.991	0.999	8.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1848	0.2131	0.1967	0.1949	0.2174	0.2273	0.2002	----	----	0.205	1.82	0.996	0.999	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1361	0.1486	0.1532	0.1467	0.1711	0.1966	0.1845	----	----	0.162	2.20	0.998	0.999	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.2556	0.2762	0.2682	0.2576	0.2733	0.2620	0.2174	----	----	0.259	1.92	0.990	1.00	7.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Qua	0.1199	0.1364	0.1011	0.1230	0.1425	0.1458	0.1283	----	----	0.128	2.28	0.995	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.4108	0.4314	0.3797	0.4283	0.4737	0.4649	0.3953	----	----	0.426	2.49	0.993	1.00	8.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1055	0.1213	0.1317	0.1043	0.1063	0.1112	0.0972	----	----	0.111	2.71	0.995	0.999	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.3116	0.3403	0.3181	0.3115	0.3383	0.3410	0.2883	----	----	0.321	2.75	0.992	0.999	6.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1841	0.2086	0.1859	0.1965	0.2184	0.2160	0.1834	----	----	0.199	2.90	0.992	0.999	7.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.1843	0.2115	0.2039	0.1866	0.2061	0.2132	0.1850	----	----	0.199	3.31	0.995	0.999	6.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0191	0.0248	0.0211	0.0168	0.0163	0.0142	0.0117	----	----	0.0178	2.81	0.988	1.00	25		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0234	0.0230	0.0294	0.0233	0.0244	0.0242	0.0213	----	----	0.0242	3.49	0.996	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.0322	0.0327	0.0139	0.0379	0.0283	0.0208	0.0227	----	----	0.0270	3.06	0.991	0.991	31		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0234	0.0264	0.0299	0.0198	0.0203	0.0193	0.0185	----	----	0.0226	2.93	1.00	1.00	19	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.5900	0.6513	0.5976	0.6294	0.6956	0.6761	0.5769	----	----	0.631	3.12	0.993	1.00	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0211	0.0244	0.0263	0.0208	0.0212	0.0222	0.0194	----	----	0.0223	2.71	0.995	0.999	11		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.2123	0.2460	0.2329	0.2268	0.2463	0.2417	0.2079	----	----	0.231	3.76	0.994	1.00	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Qua	0.1149	0.1256	0.1185	0.1431	0.1765	0.2108	0.2399	----	----	0.161	3.92	0.995	1.00	30		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.4502	0.4778	0.4978	0.4362	0.4507	0.4011	0.3173	----	----	0.433	2.92	0.982	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0469	0.0507	0.0582	0.0513	0.0587	0.0674	0.0630	----	----	0.0567	3.20	0.998	0.999	13	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.0045	0.0035	0.0028	0.0041	0.0051	0.0046	0.0039	0.0048	----	0.00422	3.51	0.993	0.999	18	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Qua	0.1564	0.1282	0.2607	0.2169	0.2759	0.3159	0.2887	----	----	0.235	3.89	0.997	0.998	30	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.2068	0.2274	0.2088	0.2102	0.2337	0.2288	0.1961	----	----	0.216	3.54	0.993	1.00	6.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Qua	0.0062	0.0112	0.0072	0.0065	0.0059	0.0054	0.0047	----	----	0.00678	4.21	0.994	1.00	31	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.2578	0.2633	0.2682	0.2623	0.2806	0.2861	0.2491	----	----	0.267	4.35	0.995	0.999	4.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1026	0.1102	0.1038	0.1025	0.1175	0.1256	0.1099	----	----	0.110	4.52	0.995	0.999	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Qua	0.0056	0.0019	0.0084	0.0061	0.0069	0.0071	0.0080	----	----	0.00635	4.34	0.997	1.00	34		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.0350	0.0416	0.0571	0.0358	0.0462	0.0510	0.0494	----	----	0.0452	4.38	0.999	0.999	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0009	0.0011	0.0009	0.0009	0.0009	0.0009	0.0008	----	----	0.000960	5.49	0.995	1.00	11		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.2818	0.2996	0.2746	0.3061	0.3405	0.3235	0.2759	----	----	0.300	4.80	0.992	1.00	8.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.3635	0.3735	0.3467	0.3720	0.4036	0.4060	0.3498	----	----	0.374	4.56	0.994	0.999	6.3	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2527	0.2554	0.2514	0.2565	0.2594	0.2551	0.2522	0.2441	0.2452	0.252	4.67	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2555	0.2654	0.2405	0.2758	0.3011	0.2983	0.2532	----	----	0.270	4.74	0.992	0.999	8.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1014	0.1032	0.1011	0.1013	0.1039	0.0995	0.0937	0.0974	0.1038	0.101	4.89	-1	-1	3.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2166	0.2263	0.2058	0.2188	0.2364	0.2472	0.2050	----	----	0.222	4.93	0.991	0.999	7.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0217	0.0286	0.0361	0.0269	0.0293	0.0328	0.0284	----	----	0.0292	4.37	0.994	0.998	15	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Qua	0.1213	0.0959	0.0625	0.2023	0.2778	0.3321	0.3213	----	----	0.202	4.70	0.998	0.998	55	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.2612	0.2900	0.2375	0.2817	0.3166	0.3185	0.2796	----	----	0.284	4.81	0.995	0.999	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Qua	0.0649	0.0822	0.0750	0.0862	0.1041	0.1282	0.1546	----	----	0.0994	3.92	0.992	1.00	32		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.2400	0.2504	0.2390	0.2425	0.2607	0.2687	0.2351	----	----	0.248	5.56	0.995	0.999	5.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the mininum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.2

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121801 0035

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M553321.D	CAL @ 20 PPB	12/18/21 01:07	2	8M553317.D	CAL @ 5 PPB	12/17/21 23:46
3	8M553318.D	CAL @ 2 PPB	12/18/21 00:06	4	8M553322.D	CAL @ 50 PPB	12/18/21 01:27
5	8M553323.D	CAL @100 PPB	12/18/21 01:48	6	8M553324.D	CAL @ 250 PPB	12/18/21 02:08
7	8M553325.D	CAL @ 500 PPB	12/18/21 02:28	8	8M553319.D	CAL @ 1 PPB	12/18/21 00:27
9	8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.3121	0.3174	0.2717	0.3403	0.3771	0.3712	0.3202	----	----	0.330	5.42	0.994	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Qua	0.0852	0.0989	0.0954	0.0787	0.0750	0.0606	0.0522	----	----	0.0781	5.49	0.990	0.999	22		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.1527	0.1476	0.1413	0.1599	0.1717	0.1728	0.1526	----	----	0.157	5.42	0.996	1.00	7.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.2467	0.2615	0.2394	0.2584	0.2813	0.2773	0.2425	----	----	0.258	5.29	0.995	1.00	6.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.7369	0.7579	0.7206	0.7486	0.8171	0.8106	0.6959	0.6662	----	0.744	4.93	0.994	1.00	7.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Qua	0.0078	0.0080	0.0104	0.0042	0.0044	0.0047	0.0038	----	----	0.00624	4.97	0.991	0.997	41		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Qua	0.0217	0.0297	0.0332	0.0258	0.0333	0.0517	----	----	----	0.0326	4.93	0.977	1.00	32	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Methyl methacrylate	1	0	Avg	0.0819	0.0763	0.0925	0.0856	0.0941	0.0913	0.0824	----	----	0.0863	5.46	0.997	1.00	7.6	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.2069	0.2200	0.1810	0.2074	0.2261	0.2315	0.2082	----	----	0.212	6.44	0.997	1.00	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0270	0.0163	0.0050	0.0408	0.0528	0.0579	0.0540	----	----	0.0363	5.75	0.998	0.999	57		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Qua	0.1530	0.1254	0.0969	0.2117	0.2572	0.2814	0.2585	----	----	0.198	5.81	0.997	0.999	37	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Qua	0.0748	0.0489	0.0665	0.1162	0.1587	0.1956	0.1996	----	----	0.123	6.10	0.998	0.999	51	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.1014	0.1117	0.1140	0.1006	0.1111	0.1145	0.1044	----	----	0.108	6.13	0.998	1.00	5.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1462	0.1628	0.1474	0.1462	0.1534	0.1522	0.1370	----	----	0.149	6.21	0.997	1.00	5.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Qua	0.0942	0.1186	0.1170	0.0780	0.0584	0.0441	0.0439	0.1084	----	0.0829	6.51	0.993	0.993	38	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.2313	0.2454	0.2100	0.2280	0.2371	0.2231	0.2011	----	----	0.225	6.31	0.997	1.00	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.0614	0.0798	0.0684	0.0601	0.0643	0.0663	0.0645	----	----	0.0664	5.88	1.00	1.00	9.8	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0399	0.0447	0.0580	0.0349	0.0380	0.0399	0.0404	----	----	0.0423	6.33	1.00	1.00	18	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.2517	0.2692	0.2558	0.2654	0.2941	0.2790	0.2489	----	----	0.266	6.31	0.996	1.00	6.1	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.2881	1.2862	1.2711	1.2721	1.3037	1.2771	1.2800	1.2803	1.2674	1.28	5.97	-1	-1	0.86		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6233	0.6739	0.6302	0.6391	0.7001	0.6889	0.6016	0.6534	----	0.651	6.00	0.995	1.00	5.2	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2472	0.2575	0.2242	0.2498	0.2701	0.2757	0.2553	----	----	0.254	6.81	0.998	1.00	6.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.6924	0.7434	0.6548	0.6965	0.7552	0.7537	0.6662	----	----	0.709	6.77	0.996	1.00	5.9	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.3065	0.3342	0.3454	0.3285	0.3871	0.4676	----	----	----	0.362	7.02	0.994	1.00	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
n-Amyl acetate	1	0	Avg	0.2389	0.2467	0.3547	0.2618	0.2909	0.3568	----	----	----	0.292	7.14	0.993	1.00	18	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Bromoform	1	0	Avg	0.2153	0.2430	0.2329	0.2376	0.2463	0.2958	----	----	----	0.245	7.22	0.995	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Ethylbenzene	1	0	Avg	0.6348	0.6591	0.6143	0.6701	0.7707	0.8524	0.7043	0.6521	----	0.695	6.82	0.991	0.998	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.2858	0.3135	0.2865	0.2878	0.3064	0.3711	0.1768	----	----	0.290	7.44	0.820	0.975	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7364	0.7655	0.7566	0.7796	0.7560	0.9231	0.3201	0.7535	0.7444	0.726	7.38	-1	-1	22		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.2683	1.2942	1.1444	1.4480	1.5134	1.7588	----	----	----	1.40	7.10	0.997	1.00	16	0.30	20.00	5.00	2.00	50.00	100.0	250.0			
m&p-Xylenes	1	0	Avg	0.8606	0.8805	0.8291	0.9443	1.0266	1.1265	0.6544	0.8586	0.8567	0.893	6.88	0.916	0.990	15	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8290	0.8264	0.7912	0.9580	0.9764	1.1209	----	0.8528	----	0.908	7.10	0.997	1.00	13	0.30	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1030	0.1068	0.1059	0.1121	0.1366	0.1561	0.0921	----	----	0.116	7.46	0.912	0.988	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.0089	1.1206	1.0191	1.0359	1.1595	0.9251	0.8226	----	----	1.01	7.99	0.992	0.998	11	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.9978	1.0796	1.0063	1.0301	1.1163	1.2110	1.0397	----	----	1.07	8.04	0.994	0.999	7.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.8706	0.9038	0.8521	0.8874	0.9866	0.8139	0.8019	----	----	0.874	8.25	0.998	0.999	7.1	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.3095	2.3363	2.1177	2.6067	2.7891	3.2787	----	1.9193	----	2.48	7.29	0.996	1.00	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
Cyclohexanone	1	0	Avg	0.0013	0.0011	0.0015	0.0011	0.0009	0.0009	----	----	----	0.00119	7.36	0.997	0.998	20		100.0	25.00	10.00	250.0	500.0	1250.			
Camphene	1	0	Avg	0.6498	0.6491	0.6302	0.7292	0.8338	1.0008	0.6266	----	----	0.731	7.46	0.933	0.988	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.3033	0.3150	0.2975	0.3013	0.3348	0.4041	0.2788	----	----	0.319	7.47	0.960	0.991	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.3990	1.5726	1.3559	1.4507	1.6340	1.7481	1.1462	----	----	1.47	7.58	0.945	0.994	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.2
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M553321.D	CAL @ 20 PPB	12/18/21 01:07	2	8M553317.D	CAL @ 5 PPB	12/17/21 23:46
3	8M553318.D	CAL @ 2 PPB	12/18/21 00:06	4	8M553322.D	CAL @ 50 PPB	12/18/21 01:27
5	8M553323.D	CAL @100 PPB	12/18/21 01:48	6	8M553324.D	CAL @ 250 PPB	12/18/21 02:08
7	8M553325.D	CAL @ 500 PPB	12/18/21 02:28	8	8M553319.D	CAL @ 1 PPB	12/18/21 00:27
9	8M553320.D	CAL @ 0.5 PPB	12/18/21 00:47				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.2588	2.3398	2.0722	2.4265	2.7292	3.0081	1.7071	----	----	2.36	7.57	0.897	0.989	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.3309	1.4105	1.3515	1.3791	1.5111	1.5058	1.2250	----	----	1.39	7.64	0.988	0.999	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	2.6169	2.7039	2.4357	2.8080	3.1143	3.6335	2.2644	2.4707	----	2.76	7.51	0.936	0.990	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.9424	0.9862	0.7605	1.0134	1.1129	1.3257	0.9148	----	----	1.01	7.48	0.960	0.992	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	1.8170	1.9002	1.6167	1.9093	2.1524	2.2396	1.6975	1.6264	----	1.87	7.60	0.979	0.998	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.3164	0.2874	0.3538	0.3185	0.3776	0.3278	0.2633	----	----	0.321	7.61	0.983	0.999	12	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	1.9331	1.9281	1.7708	2.0774	2.3553	1.8794	1.4140	1.6593	----	1.88	7.79	0.969	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.8359	1.8648	1.7239	1.9377	2.1869	1.5964	1.2736	1.7410	----	1.77	7.81	0.974	0.997	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.4285	2.4364	2.1555	2.6056	2.9643	1.9955	1.4811	2.1432	----	2.28	7.91	0.952	0.994	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	2.3022	2.5189	2.9428	2.3552	2.6181	1.7023	----	3.8030	----	2.61	7.98	0.958	0.996	25		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
n-Butylbenzene	1	0	Avg	2.2043	2.1611	1.9893	2.3443	2.6745	1.8347	1.6223	2.0658	----	2.11	8.20	0.983	0.994	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.1477	1.1466	1.0888	1.2525	1.4565	1.1446	1.0019	----	----	1.18	8.19	0.990	0.998	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	1.4357	1.3719	1.3785	1.6463	1.9674	1.4858	1.0248	----	----	1.47	8.63	0.942	0.998	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Qua	0.0537	0.0800	0.0520	0.0550	0.0585	0.0410	----	----	----	0.0567	8.69	0.972	0.998	23	0.05 a	20.00	5.00	2.00	50.00	100.0	250.0			
Camphor	1	0	Qua	0.0034	0.0092	0.0103	0.0059	0.0095	0.0126	----	----	----	0.00853	9.11	0.984	0.998	38		200.0	50.00	20.00	500.0	1000.	2500.			
Hexachlorobutadiene	1	0	Avg	0.3533	0.3336	0.3339	0.3701	0.4288	0.4972	0.3599	----	----	0.382	9.25	0.970	0.994	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.4562	0.5220	0.4900	0.5023	0.5706	0.6885	----	----	----	0.538	9.17	0.994	1.00	15	0.20	20.00	5.00	2.00	50.00	100.0	250.0			
1,2,3-Trichlorobenzen	1	0	Avg	0.3500	0.4025	0.3787	0.3768	0.4479	0.5650	0.3392	----	----	0.409	9.46	0.919	0.984	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.6096	0.6844	0.8746	0.6932	0.8424	1.0327	0.7409	1.1029	----	0.823	9.32	0.970	0.992	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.2
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: 8M553434.D Instrument: GCMS 8

Cont Calibration Date/Time 12/21/2021 11:04:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	46.48	50	20	0.1	0.264	0.245	7.04	
Dichlorodifluoromethane	1	0		1.66	59.78	50	20	0.1	0.210	0.251	19.56	
Chloromethane	1	0		1.82	48.57	50	20	0.1	0.205	0.199	2.87	
Bromomethane	1	0		2.20	44.15	50	20	0.1	0.162	0.143	11.70	
Vinyl Chloride	1	0		1.92	52.48	50	20	0.1	0.259	0.271	4.96	
Chloroethane	1	0		2.28	40.89	50	20	0.1	0.128	0.125	18.22	
Trichlorofluoromethane	1	0		2.49	44.37	50	20	0.1	0.426	0.378	11.25	
Ethyl ether	1	0		2.71	43.59	50	20	0.5	0.111	0.097	12.83	
Furan	1	0		2.75	37.95	50	20	0.5	0.321	0.244	24.11	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.91	50.19	50	20	0.1	0.199	0.200	0.38	
Methylene Chloride	1	0		3.30	43.13	50	20	0.1	0.199	0.171	13.75	
Acrolein	1	0		2.81	233.41	250	20		0.018	0.015	6.64	
Acrylonitrile	1	0		3.49	49.24	50	20		0.024	0.024	1.53	
Iodomethane	1	0		3.06	83.17	50	20		0.027	0.039	66.35	C1
Acetone	1	0		2.93	195.42	250	20	0.1	0.023	0.018	21.83	C1
Carbon Disulfide	1	0		3.12	48.67	50	20	0.1	0.631	0.614	2.65	
t-Butyl Alcohol	1	0		2.71	217.71	250	20		0.022	0.019	12.92	
n-Hexane	1	0		3.76	58.07	50	20		0.231	0.268	16.13	
Di-isopropyl-ether	1	0		3.93	41.20	50	20		0.161	0.145	17.60	
1,1-Dichloroethene	1	0		2.91	43.03	50	20	0.1	0.433	0.373	13.93	
Methyl Acetate	1	0		3.20	37.09	50	20	0.1	0.057	0.042	25.81	C1
Methyl-t-butyl ether	1	0		3.51	54.25	50	20	0.1	0.004	0.005	8.51	
1,1-Dichloroethane	1	0		3.89	33.59	50	20	0.2	0.235	0.207	32.82	C1
trans-1,2-Dichloroethene	1	0		3.54	50.40	50	20	0.1	0.216	0.218	0.81	
Ethyl-t-butyl ether	1	0		4.21	44.52	50	20	0.5	0.007	0.005	10.96	
cis-1,2-Dichloroethene	1	0		4.35	45.10	50	20	0.1	0.267	0.241	9.79	
Bromochloromethane	1	0		4.52	42.67	50	20		0.110	0.094	14.65	
2,2-Dichloropropane	1	0		4.34	40.52	50	20		0.006	0.005	18.96	
Ethyl acetate	1	0		4.37	52.84	50	20		0.045	0.048	5.67	
1,4-Dioxane	1	0		5.49	2579.56	2500	20		0.001	0.001	3.18	
1,1-Dichloropropene	1	0		4.80	49.24	50	20		0.300	0.296	1.52	
Chloroform	1	0		4.56	44.92	50	20	0.2	0.374	0.336	10.16	
Dibromofluoromethane	1	0	S	4.67	29.87	75	**		0.253	0.251	0.45	
Cyclohexane	1	0		4.75	55.11	50	20	0.1	0.270	0.298	10.22	
1,2-Dichloroethane-d4	1	0	S	4.89	28.65	75	**		0.101	0.096	4.49	
1,2-Dichloroethane	1	0		4.93	40.78	50	20	0.1	0.222	0.181	18.45	
2-Butanone	1	0		4.37	50.91	50	20	0.1	0.029	0.030	1.82	
1,1,1-Trichloroethane	1	0		4.70	28.46	50	20	0.1	0.202	0.174	43.08	C1
Carbon Tetrachloride	1	0		4.81	43.75	50	20	0.1	0.284	0.248	12.51	
Vinyl Acetate	1	0		3.92	39.07	50	20		0.099	0.079	21.87	C1
Bromodichloromethane	1	0		5.56	44.40	50	20	0.2	0.248	0.220	11.20	
Methylcyclohexane	1	0		5.42	58.30	50	20	0.1	0.330	0.385	16.59	
Dibromomethane	1	0		5.49	53.14	50	20		0.078	0.076	6.28	
1,2-Dichloropropane	1	0		5.42	48.48	50	20	0.1	0.157	0.152	3.04	
Trichloroethene	1	0		5.29	49.71	50	20	0.2	0.258	0.257	0.59	
Benzene	1	0		4.93	49.98	50	20	0.5	0.744	0.744	0.04	
tert-Amyl methyl ether	1	0		4.97	43.00	50	20		0.006	0.004	14.00	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.93	54.24	50	20	0.5	0.033	0.030	8.48	
Methyl methacrylate	1	0		5.46	50.25	50	20	0.5	0.086	0.087	0.50	
Dibromochloromethane	1	0		6.44	48.47	50	20	0.1	0.212	0.205	3.07	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB Data File: 8M553434.D Instrument: GCMS 8

Cont Calibration Date/Time 12/21/2021 11:04:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.75	37.87	50	20		0.036	0.043	24.27	C1
cis-1,3-Dichloropropene	1	0		5.81	37.53	50	20	0.2	0.198	0.209	24.93	C1
trans-1,3-Dichloropropene	1	0		6.10	33.31	50	20	0.1	0.123	0.115	33.38	C1
Ethyl methacrylate	1	0		6.13	44.92	50	20	0.5	0.108	0.097	10.15	
1,1,2-Trichloroethane	1	0		6.21	52.32	50	20	0.1	0.149	0.156	4.64	
1,2-Dibromoethane	1	0		6.51	73.15	50	20	0.1	0.083	0.076	46.30	C1
1,3-Dichloropropane	1	0		6.31	51.73	50	20		0.225	0.233	3.47	
4-Methyl-2-Pentanone	1	0		5.88	45.27	50	20	0.1	0.066	0.060	9.47	
2-Hexanone	1	0		6.33	40.36	50	20	0.1	0.042	0.034	19.28	
Tetrachloroethene	1	0		6.31	50.67	50	20	0.2	0.266	0.270	1.35	
Toluene-d8	1	0	S	5.97	30.71	75	**		1.281	1.311	2.37	
Toluene	1	0		6.00	50.53	50	20	0.4	0.651	0.658	1.06	
1,1,1,2-Tetrachloroethane	1	0		6.81	47.21	50	20		0.254	0.240	5.58	
Chlorobenzene	1	0		6.77	51.23	50	20	0.5	0.709	0.726	2.46	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.02	54.12	50	20	0.5	0.362	0.391	8.25	
n-Amyl acetate	1	0		7.14	48.32	50	20	0.5	0.292	0.282	3.36	
Bromoform	1	0		7.22	47.61	50	20	0.1	0.245	0.233	4.79	
Ethylbenzene	1	0		6.82	53.10	50	20	0.1	0.695	0.738	6.21	
1,1,2,2-Tetrachloroethane	1	0		7.44	57.64	50	20	0.1	0.290	0.334	15.29	
Bromofluorobenzene	1	0	S	7.38	31.29	75	**		0.726	0.757	4.30	
Styrene	1	0		7.10	52.25	50	20	0.3	1.405	1.468	4.51	
m&p-Xylenes	1	0		6.88	111.85	100	20	0.1	0.893	0.999	11.85	
o-Xylene	1	0		7.10	52.73	50	20	0.3	0.908	0.957	5.47	
trans-1,4-Dichloro-2-butene	1	0		7.46	49.46	50	20		0.116	0.115	1.08	
1,3-Dichlorobenzene	1	0		7.99	55.54	50	20	0.6	1.013	1.125	11.08	
1,4-Dichlorobenzene	1	0		8.04	51.10	50	20	0.5	1.069	1.092	2.19	
1,2-Dichlorobenzene	1	0		8.25	54.23	50	20	0.4	0.874	0.948	8.46	
Isopropylbenzene	1	0		7.29	53.17	50	20	0.1	2.480	2.637	6.34	
Cyclohexanone	1	0		7.36	218.58	250	20		0.001	0.001	12.57	
Camphene	1	0		7.46	57.22	50	20		0.731	0.837	14.45	
1,2,3-Trichloropropane	1	0		7.47	51.79	50	20		0.319	0.331	3.58	
2-Chlorotoluene	1	0		7.58	53.41	50	20		1.472	1.573	6.82	
p-Ethyltoluene	1	0		7.57	58.63	50	20		2.363	2.771	17.26	
4-Chlorotoluene	1	0		7.64	52.48	50	20		1.388	1.457	4.96	
n-Propylbenzene	1	0		7.51	54.48	50	20		2.756	3.003	8.96	
Bromobenzene	1	0		7.48	52.72	50	20		1.008	1.063	5.45	
1,3,5-Trimethylbenzene	1	0		7.60	54.16	50	20		1.870	2.025	8.32	
Butyl methacrylate	1	0		7.60	52.61	50	20	0.5	0.321	0.337	5.22	
t-Butylbenzene	1	0		7.79	58.49	50	20		1.877	2.196	16.97	
1,2,4-Trimethylbenzene	1	0		7.81	57.40	50	20		1.770	2.032	14.79	
sec-Butylbenzene	1	0		7.91	61.65	50	20		2.276	2.807	23.31	C1
4-Isopropyltoluene	1	0		7.98	45.83	50	20		2.606	2.507	8.33	
n-Butylbenzene	1	0		8.20	60.47	50	20		2.112	2.554	20.94	C1
p-Diethylbenzene	1	0		8.19	61.33	50	20		1.177	1.444	22.66	C1
1,2,4,5-Tetramethylbenzene	1	0		8.63	63.45	50	20		1.473	1.869	26.89	C1
1,2-Dibromo-3-Chloropropane	1	0		8.69	48.77	50	20	0.05	0.057	0.060	2.47	
Camphor	1	0		9.11	836.26	500	20		0.009	0.014	67.25	C1
Hexachlorobutadiene	1	0		9.25	48.72	50	20		0.382	0.373	2.56	
1,2,4-Trichlorobenzene	1	0		9.17	52.21	50	20	0.2	0.538	0.562	4.42	
1,2,3-Trichlorobenzene	1	0		9.46	53.07	50	20		0.409	0.434	6.14	
Naphthalene	1	0		9.32	45.62	50	20		0.823	1.003	8.76	

S-Surrogate Compound I-Internal Standard Compound Page 2 of 2

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553321.D Method: EPA 8260D

Analysis Date/Time: 12/18/21 01:07

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	366342	5.09	286093	6.76	155086	8.02								
Eval File Area Limit:	183171-732684		143046-572186		77543-310172									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample						
8M553317.D	CAL @ 5 PPB	368695	5.09	289764	6.76	155482	8.02
8M553318.D	CAL @ 2 PPB	399834	5.09	313518	6.76	164892	8.02
8M553319.D	CAL @ 1 PPB	393069	5.09	308552	6.76	162192	8.02
8M553320.D	CAL @ 0.5 PPB	350584	5.09	277054	6.76	145770	8.02
8M553321.D	CAL @ 20 PPB	366342	5.09	286093	6.76	155086	8.02
8M553322.D	CAL @ 50 PPB	368775	5.09	292857	6.76	155621	8.02
8M553323.D	CAL @100 PPB	355067	5.09	279175	6.76	146056	8.02
8M553324.D	CAL @ 250 PPB	383571	5.09	308057	6.76	144794	8.02
8M553325.D	CAL @ 500 PPB	437706	5.09	352709	6.76	182671	8.02
8M553330.D	ICV	358982	5.09	277421	6.76	143250	8.02
8M553334.D	STD	287808	5.09	220405	6.76	118782	8.02
8M553335.D	BLK	363094	5.09	273522	6.76	143301	8.02
8M553336.D	BLK	380753	5.09	278093	6.76	144873	8.02
8M553337.D	BLK	415113	5.09	308590	6.76	159126	8.02
8M553338.D	BLK	400219	5.09	300836	6.76	156058	8.02
8M553339.D	BLK	417446	5.09	319782	6.76	162071	8.02
8M553340.D	BLK	381913	5.09	281889	6.76	143138	8.02
8M553341.D	DAILY BLANK	410698	5.09	305948	6.76	153475	8.02
8M553342.D	AD27831-002	352634	5.09	273128	6.76	140581	8.02
8M553343.D	AD27831-004	338087	5.09	260171	6.76	134417	8.02
8M553344.D	AD27831-005	354231	5.09	273271	6.76	137851	8.02
8M553345.D	AD27831-006	356347	5.09	276090	6.76	138224	8.02
8M553346.D	AD27840-002	305396	5.09	235898	6.76	121638	8.02
8M553347.D	AD27697-002	295197	5.09	223659	6.76	116491	8.02
8M553348.D	MBS98260	415519	5.09	315036	6.76	161026	8.02
8M553349.D	MBS98261	349758	5.09	270050	6.76	140493	8.02
8M553350.D	BLK	375846	5.09	274626	6.76	139685	8.02
8M553351.D	BLK	384387	5.09	287545	6.76	144707	8.02
8M553352.D	BLK	368503	5.09	278622	6.76	140182	8.02
8M553353.D	BLK	383718	5.09	289834	6.76	145136	8.02
8M553354.D	BLK	50968 A	5.06	78474 A	6.75	64638 A	8.02
8M553355.D	BLK	65881 A	5.06	91682 A	6.75	80902	8.02

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1121801 0040

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553434.D Method: EPA 8260D

Analysis Date/Time: 12/21/21 11:04

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	394804	5.09	300122	6.76	151488	8.02								
Eval File Area Limit:	197402-789608		150061-600244		75744-302976									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									

Data File	Sample						
8M553433.D	50 PPB	416912	5.09	319558	6.76	161057	8.02
8M553435.D	BLK	404754	5.09	302727	6.76	151599	8.02
8M553436.D	BLK	434903	5.09	322258	6.76	157727	8.02
8M553437.D	BLK	411503	5.09	288892	6.76	141497	8.02
8M553438.D	BLK	381564	5.08	285237	6.76	143452	8.02
8M553439.D	DAILY BLANK	406792	5.09	308485	6.76	149573	8.02
8M553440.D	AD27953-002	371467	5.09	270416	6.76	125626	8.02
8M553441.D	AD27953-001	157765A	5.09	86810A	6.76	30461A	8.03
8M553442.D	AD27950-001	348278	5.09	266199	6.76	126027	8.02
8M553443.D	AD27983-001	345686	5.09	246318	6.76	100771	8.02
8M553444.D	AD27883-003	134541A	5.09	104077A	6.76	53654A	8.03
8M553445.D	AD27911-002(MS)	340907	5.09	221723	6.76	81367	8.02
8M553446.D	MBS98291	360433	5.09	279253	6.76	143582	8.02
8M553447.D	MBS98292	378370	5.09	287480	6.76	143646	8.02
8M553448.D	AD27911-002(MSD)	345387	5.09	206757	6.76	71626A	8.02
8M553449.D	AD27911-002	339618	5.09	221197	6.76	82141	8.02
8M553450.D	BLK	394927	5.09	282109	6.76	135356	8.02
8M553451.D	BLK	408100	5.09	292995	6.76	145167	8.02
8M553452.D	AD27952-003	387965	5.09	300492	6.76	147989	8.02
8M553453.D	AD27952-001	392668	5.09	300131	6.76	148645	8.02
8M553454.D	AD28000-001	374535	5.09	266012	6.76	109313	8.02
8M553455.D	AD27963-001	459109	5.09	311914	6.76	112872	8.02
8M553456.D	AD27963-002	418893	5.09	279823	6.76	106545	8.02
8M553457.D	AD27963-003	426741	5.09	285302	6.76	107379	8.02
8M553458.D	AD27961-003	388673	5.09	292326	6.76	143299	8.02
8M553459.D	AD27961-002	365704	5.09	280918	6.76	135300	8.02
8M553460.D	AD27961-001	347412	5.09	265493	6.76	124316	8.02
8M553461.D	AD27990-006	343253	5.09	266297	6.76	134477	8.02
8M553462.D	AD27993-001	380899	5.09	284532	6.76	135488	8.02
8M553463.D	AD27993-002	337191	5.09	253445	6.76	120452	8.02
8M553464.D	AD27981-004	335845	5.09	261234	6.76	129470	8.02
8M553465.D	AD27992-012	380506	5.09	291947	6.76	141783	8.02

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 8M553434.D Method: EPA 8260D

Analysis Date/Time: 12/21/21 11:04

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	394804	5.09	300122	6.76	151488	8.02								
Eval File Area Limit:	197402-789608		150061-600244		75744-302976									
Eval File Rt Limit:	4.59-5.59		6.26-7.26		7.52-8.52									
Data File Sample														
8M553466.D AD27992-011	348890	5.09	267194	6.76	132850	8.02								
8M553467.D BLK	374846	5.09	277591	6.76	137274	8.02								

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28000-001
Client Id: SB-015SS
Data File: 7M118773.D
Analysis Date: 12/30/21 08:30
Date Rec/Extracted: 12/18/21-12/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.039	U	**50-32-8**	**Benzo[a]pyrene**	**0.039**	**0.063**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.039	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.039**	**0.088**
122-66-7	1,2-Diphenylhydrazine	0.039	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.039**	**0.053**
123-91-1	1,4-Dioxane	0.020	U	207-08-9	Benzo[k]fluoranthene	0.039	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.039	U	100-51-6	Benzyl alcohol	0.039	U
95-95-4	2,4,5-Trichlorophenol	0.039	U	111-91-1	bis(2-Chloroethoxy)methan	0.039	U
88-06-2	2,4,6-Trichlorophenol	0.039	U	111-44-4	bis(2-Chloroethyl)ether	0.0098	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.039	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.039	U
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.039	U
121-14-2	2,4-Dinitrotoluene	0.039	U	105-60-2	Caprolactam	0.039	U
606-20-2	2,6-Dinitrotoluene	0.039	U	86-74-8	Carbazole	0.039	U
91-58-7	2-Chloronaphthalene	0.039	U	**218-01-9**	**Chrysene**	**0.039**	**0.066**
95-57-8	2-Chlorophenol	0.039	U	53-70-3	Dibenzo[a,h]anthracene	0.039	U
91-57-6	2-Methylnaphthalene	0.039	U	132-64-9	Dibenzofuran	0.0099	U
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.039	U
88-74-4	2-Nitroaniline	0.039	U	131-11-3	Dimethylphthalate	0.039	U
88-75-5	2-Nitrophenol	0.039	U	84-74-2	Di-n-butylphthalate	0.045	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.039	U
91-94-1	3,3'-Dichlorobenzidine	0.039	U	**206-44-0**	**Fluoranthene**	**0.039**	**0.071**
99-09-2	3-Nitroaniline	0.039	U	86-73-7	Fluorene	0.039	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.039	U
101-55-3	4-Bromophenyl-phenylether	0.039	U	87-68-3	Hexachlorobutadiene	0.039	U
59-50-7	4-Chloro-3-methylphenol	0.039	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.017	U	67-72-1	Hexachloroethane	0.039	U
7005-72-3	4-Chlorophenyl-phenylether	0.039	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.039**	**0.042**
100-01-6	4-Nitroaniline	0.039	U	78-59-1	Isophorone	0.039	U
100-02-7	4-Nitrophenol	0.039	U	91-20-3	Naphthalene	0.011	U
83-32-9	Acenaphthene	0.039	U	98-95-3	Nitrobenzene	0.039	U
208-96-8	Acenaphthylene	0.039	U	62-75-9	N-Nitrosodimethylamine	0.048	U
98-86-2	Acetophenone	0.039	U	621-64-7	N-Nitroso-di-n-propylamine	0.015	U
120-12-7	Anthracene	0.039	U	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.039	U	87-86-5	Pentachlorophenol	0.20	U
100-52-7	Benzaldehyde	0.43	U	85-01-8	Phenanthrene	0.039	U
92-87-5	Benzidine	0.069	U	108-95-2	Phenol	0.039	U
56-55-3	**Benzo[a]anthracene**	**0.039**	**0.058**	**129-00-0**	**Pyrene**	**0.039**	**0.071**

Worksheet #: 623689 *Total Target Concentration* 0.51 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

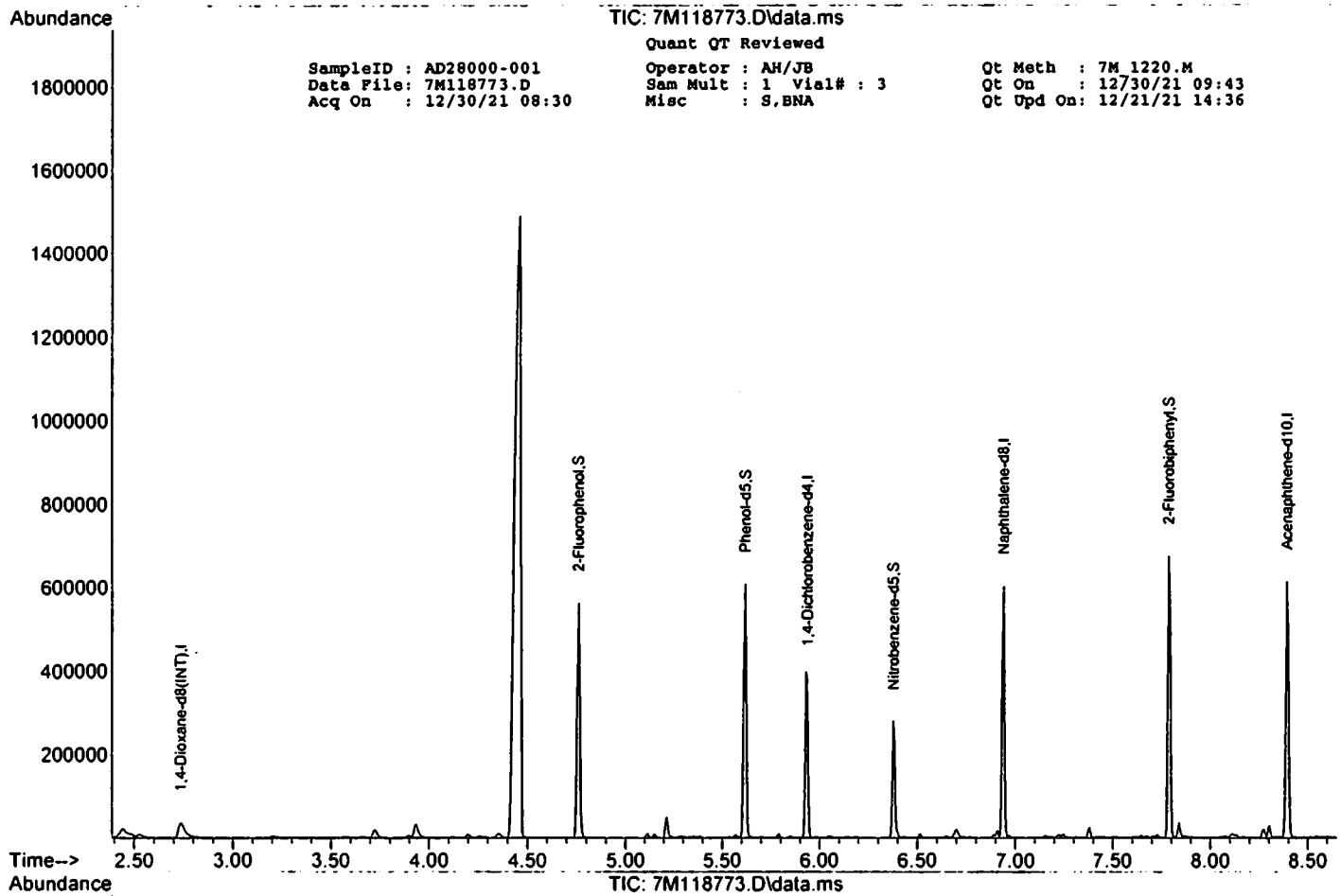
Quantitation Report (QT Reviewed)

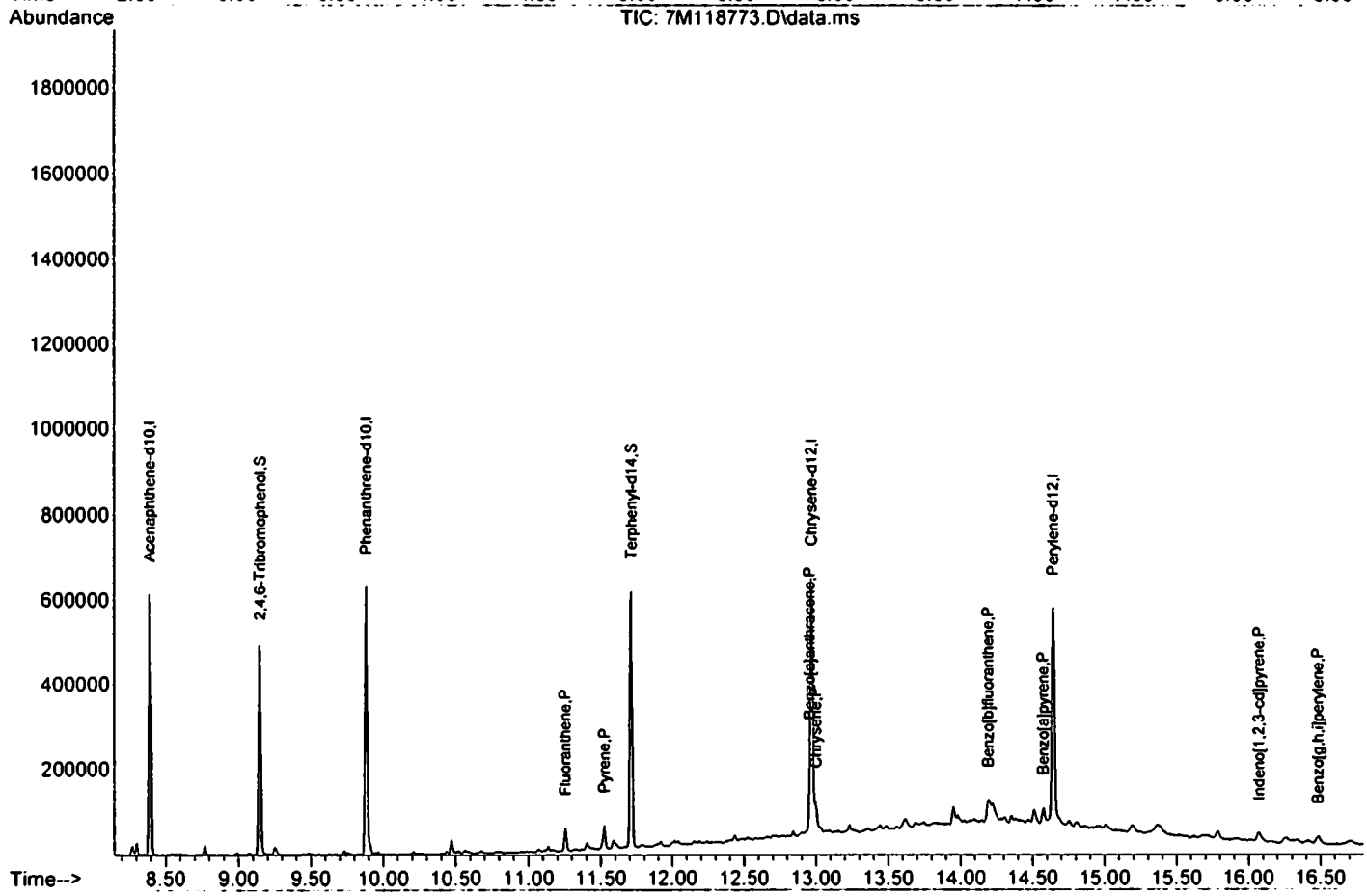
SampleID : AD28000-001 Operator : AH/JB Qt Meth : 7M_1220.M
Data File: 7M118773.D Sam Mult : 1 Vial# : 3 Qt On : 12/30/21 09:43
Acq On : 12/30/21 08:30 Misc : S,BNA Qt Upd On: 12/21/21 14:36

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-30-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.734	96	34929	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.936	152	68394	40.00	ng	0.00
31) Naphthalene-d8	6.941	136	259229	40.00	ng	0.00
50) Acenaphthene-d10	8.392	164	130713	40.00	ng	0.00
77) Phenanthrene-d10	9.885	188	254873	40.00	ng	0.00
91) Chrysene-d12	12.969	240	227929	40.00	ng	0.00
103) Perylene-d12	14.644	264	245451	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.761	112	175137	85.34	ng	0.01
Spiked Amount 100.000			Recovery =	85.34%		
16) Phenol-d5	5.619	99	211275	89.28	ng	0.00
Spiked Amount 100.000			Recovery =	89.28%		
32) Nitrobenzene-d5	6.377	128	45194	44.06	ng	0.00
Spiked Amount 50.000			Recovery =	88.12%		
55) 2-Fluorobiphenyl	7.787	172	215816	45.73	ng	0.00
Spiked Amount 50.000			Recovery =	91.46%		
80) 2,4,6-Tribromophenol	9.150	330	69145	98.52	ng	0.00
Spiked Amount 100.000			Recovery =	98.52%		
94) Terphenyl-d14	11.712	244	203672	51.57	ng	0.00
Spiked Amount 50.000			Recovery =	103.14%		
Target Compounds						Qvalue
90) Fluoranthene	11.254	202	25235	3.6419	ng	91
92) Pyrene	11.524	202	24870	3.6129	ng	88
100) Benzo[a]anthracene	12.957	228	19856m	2.9440	ng	
101) Chrysene	12.999	228	20295	3.3747	ng	99
105) Benzo[b]fluoranthene	14.191	252	29690m	4.4826	ng	
107) Benzo[a]pyrene	14.573	252	20124	3.1994	ng	92
108) Indeno[1,2,3-cd]pyrene	16.072	276	14464m	2.1259	ng	
110) Benzo[g,h,i]perylene	16.483	276	16101	2.6932	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M118773.D\data.ms
Quant QT Reviewed
SampleID : AD28000-001
Data File: 7M118773.D
Acq On : 12/30/21 08:30
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : S,BNA
Qt Meth : 7M_1220.M
Qt On : 12/30/21 09:43
Qt Upd On: 12/21/21 14:36
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->


Abundance
TIC: 7M118773.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB96024
Client Id:
Data File: 7M118765.D
Analysis Date: 12/29/21 14:47
Date Rec/Extracted: NA-12/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.017	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.016	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0084	U
95-48-7	2-Methylphenol	0.0096	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.038	U
106-44-5	3&4-Methylphenol	0.0097	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0096	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.013	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.11	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.36	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.059	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 623689

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

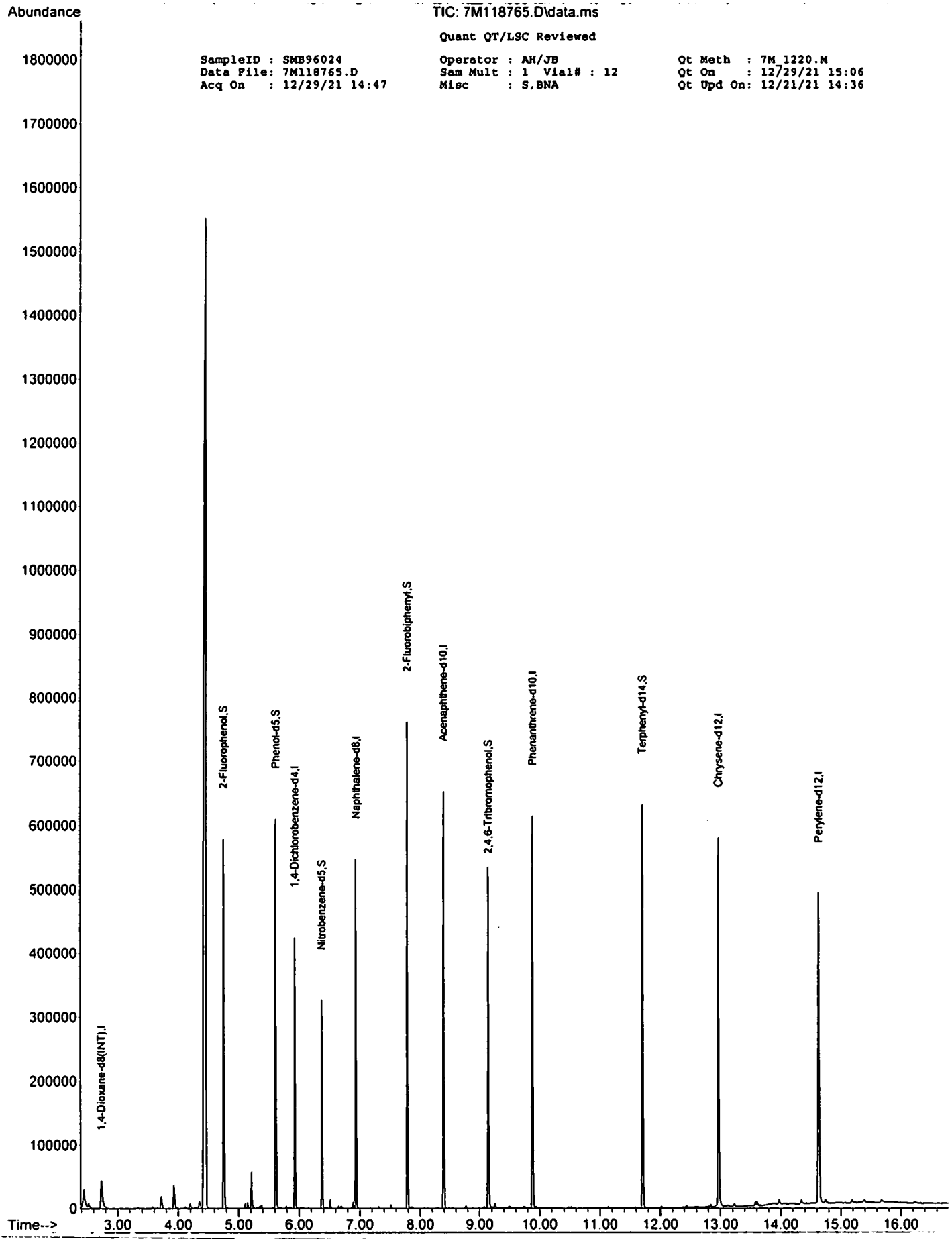
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : SMB96024 Operator : AH/JB Qt Meth : 7M_1220.M
Data File: 7M118765.D Sam Mult : 1 Vial# : 12 Qt On : 12/29/21 15:06
Acq On : 12/29/21 14:47 Misc : S,BNA Qt Upd On: 12/21/21 14:36

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-29-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.728	96	35694	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.930	152	65919	40.00	ng	0.00
31) Naphthalene-d8	6.941	136	256748	40.00	ng	0.00
50) Acenaphthene-d10	8.392	164	132228	40.00	ng	0.00
77) Phenanthrene-d10	9.885	188	251456	40.00	ng	0.00
91) Chrysene-d12	12.969	240	225779	40.00	ng	0.00
103) Perylene-d12	14.632	264	240907	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.755	112	188735	89.99	ng	0.00
Spiked Amount 100.000			Recovery = 89.99%			
16) Phenol-d5	5.619	99	229168	94.76	ng	0.00
Spiked Amount 100.000			Recovery = 94.76%			
32) Nitrobenzene-d5	6.377	128	49946	49.17	ng	0.00
Spiked Amount 50.000			Recovery = 98.34%			
55) 2-Fluorobiphenyl	7.787	172	233933	49.00	ng	0.00
Spiked Amount 50.000			Recovery = 98.00%			
80) 2,4,6-Tribromophenol	9.150	330	73101	105.57	ng	0.00
Spiked Amount 100.000			Recovery = 105.57%			
94) Terphenyl-d14	11.706	244	220065	56.25	ng	0.00
Spiked Amount 50.000			Recovery = 112.50%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M118765.D\data.ms
Quant QT/LSC Reviewed
SampleID : SMB96024
Data File: 7M118765.D
Acq On : 12/29/21 14:47
Operator : AH/JB
Sam Mult : 1 Vial# : 12
Misc : S,BNA
Qt Meth : 7M_1220.M
Qt On : 12/29/21 15:06
Qt Upd On: 12/21/21 14:36
1800000
1700000
1600000
1500000
1400000
1300000
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1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
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FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M118765.D	SMB96024	S	12/29/21 14:47	1		90	95	98	98	106	112
7M118773.D	AD28000-001	S	12/30/21 08:30	1		85	89	88	91	99	103
5M119025.D	AD28068-001	S	12/30/21 11:01	1		87	94	91	95	90	111
5M119026.D	AD28068-001(MS)	S	12/30/21 11:25	1		77	79	93	97	97	103
5M119027.D	AD28068-001(MSD)	S	12/30/21 11:49	1		75	81	86	87	93	101
7M118764.D	SMB96024(MS)	S	12/29/21 14:22	1		80	85	99	101	118	111

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96024

Data File	Sample ID:	Analysis Date
Spike or Dup: 7M118764.D	SMB96024(MS)	12/29/2021 2:22:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	19.2676	0	50	39	25	150
Pyridine	1	31.6243	0	50	63	1	150
N-Nitrosodimethylamine	1	32.9779	0	50	66	50	130
Benzaldehyde	1	33.0597	0	50	66	20	220
Aniline	1	28.795	0	50	58	20	150
Pentachloroethane	1	35.2335	0	50	70	50	130
bis(2-Chloroethyl)ether	1	34.7139	0	50	69	50	130
Phenol	1	69.0691	0	100	69	20	150
2-Chlorophenol	1	72.1372	0	100	72	50	130
N-Decane	1	32.0108	0	50	64	20	130
1,3-Dichlorobenzene	1	32.0833	0	50	64	60	130
1,4-Dichlorobenzene	1	39.9694	0	50	80	60	130
1,2-Dichlorobenzene	1	39.2705	0	50	79	50	130
Benzyl alcohol	1	43.4312	0	50	87	20	130
bis(2-chloroisopropyl)ether	1	41.9278	0	50	84	40	130
2-Methylphenol	1	88.7942	0	100	89	50	130
Acetophenone	1	44.4472	0	50	89	50	130
Hexachloroethane	1	35.1965	0	50	70	50	130
N-Nitroso-di-n-propylamine	1	37.3549	0	50	75	40	130
3&4-Methylphenol	1	89.5151	0	100	90	70	130
Nitrobenzene	1	41.2866	0	50	83	70	130
Isophorone	1	38.7658	0	50	78	60	130
2-Nitrophenol	1	87.9496	0	100	88	70	130
2,4-Dimethylphenol	1	80.9778	0	100	81	40	130
Benzoic Acid	1	82.5048	0	100	83	20	130
bis(2-Chloroethoxy)methane	1	44.1295	0	50	88	60	130
2,4-Dichlorophenol	1	90.0573	0	100	90	70	130
1,2,4-Trichlorobenzene	1	40.9736	0	50	82	50	130
Naphthalene	1	39.3447	0	50	79	50	130
4-Chloroaniline	1	32.8785	0	50	66	10	150
Hexachlorobutadiene	1	37.5257	0	50	75	60	130
Caprolactam	1	45.9942	0	50	92	50	130
4-Chloro-3-methylphenol	1	90.1893	0	100	90	50	130
2-Methylnaphthalene	1	46.6819	0	50	93	70	130
1-Methylnaphthalene	1	46.7248	0	50	93	70	130
1,1'-Biphenyl	1	47.7205	0	50	95	60	130
1,2,4,5-Tetrachlorobenzene	1	45.426	0	50	91	70	130
Hexachlorocyclopentadiene	1	13.5618	0	50	27	20	160
2,4,6-Trichlorophenol	1	99.0307	0	100	99	70	130
2,4,5-Trichlorophenol	1	83.3465	0	100	83	70	130
2-Chloronaphthalene	1	43.9016	0	50	88	70	130
1,4-Dimethylnaphthalene	1	49.6685	0	50	99	70	130
Diphenyl Ether	1	46.9032	0	50	94	70	130
2-Nitroaniline	1	47.442	0	50	95	50	130
Coumarin	1	53.1313	0	50	106	70	130
Acenaphthylene	1	42.0816	0	50	84	70	130
Dimethylphthalate	1	42.6235	0	50	85	70	130
2,6-Dinitrotoluene	1	46.0011	0	50	92	70	130
Acenaphthene	1	43.4665	0	50	87	50	130
3-Nitroaniline	1	43.6947	0	50	87	10	130
2,4-Dinitrophenol	1	62.7487	0	100	63	20	150
Dibenzofuran	1	46.2767	0	50	93	70	130
2,4-Dinitrotoluene	1	43.9903	0	50	88	40	130
4-Nitrophenol	1	85.4878	0	100	85	20	150
2,3,4,6-Tetrachlorophenol	1	85.3652	0	100	85	70	130
Fluorene	1	44.1214	0	50	88	50	130
4-Chlorophenyl-phenylether	1	44.4135	0	50	89	70	130
Diethylphthalate	1	42.1261	0	50	84	70	130
4-Nitroaniline	1	47.1008	0	50	94	50	130
Atrazine	1	47.2082	0	50	94	50	130
4,6-Dinitro-2-methylphenol	1	83.4207	0	100	83	40	130

*--Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96024

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	38.8707	0	50	78	50	130
1,2-Diphenylhydrazine	1	46.3078	0	50	93	70	130
4-Bromophenyl-phenylether	1	46.6433	0	50	93	70	130
Hexachlorobenzene	1	44.2423	0	50	88	70	130
N-Octadecane	1	54.5766	0	50	109	70	130
Pentachlorophenol	1	97.542	0	100	98	40	130
Phenanthrene	1	44.3482	0	50	89	70	130
Anthracene	1	44.6632	0	50	89	70	130
Carbazole	1	50.3722	0	50	101	70	130
Di-n-butylphthalate	1	46.4562	0	50	93	70	130
Fluoranthene	1	44.9978	0	50	90	70	130
Pyrene	1	43.9061	0	50	88	50	130
Benzidine	1	3.7935	0	50	7.6	0	130
Butylbenzylphthalate	1	47.1736	0	50	94	50	130
3,3'-Dichlorobenzidine	1	38.3116	0	50	77	10	130
Benzo[a]anthracene	1	39.6367	0	50	79	70	130
Chrysene	1	46.0776	0	50	92	60	130
bis(2-Ethylhexyl)phthalate	1	47.8054	0	50	96	70	130
Di-n-octylphthalate	1	50.2547	0	50	101	70	130
Benzo[b]fluoranthene	1	44.3358	0	50	89	70	130
Benzo[k]fluoranthene	1	39.1882	0	50	78	70	130
Benzo[a]pyrene	1	41.4568	0	50	83	70	130
Indeno[1,2,3-cd]pyrene	1	46.0101	0	50	92	70	130
Dibenzo[a,h]anthracene	1	44.9145	0	50	90	60	130
Benzo[g,h,i]perylene	1	42.8999	0	50	86	70	130

*-Indicates outside of limits # -Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96024

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M119026.D	AD28068-001(MS)	12/30/2021 11:25:00 A
Non Spike(If applicable):	5M119025.D	AD28068-001	12/30/2021 11:01:00 A
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	22.1443	0	50	44	25	150
Pyridine	1	34.4017	0	50	69	1	150
N-Nitrosodimethylamine	1	33.7636	0	50	68	50	130
Benzaldehyde	1	34.7122	0	50	69	20	220
Aniline	1	25.2327	0	50	50	20	150
Pentachloroethane	1	36.6645	0	50	73	50	130
bis(2-Chloroethyl)ether	1	33.8429	0	50	68	50	130
Phenol	1	69.3745	0	100	69	20	150
2-Chlorophenol	1	72.7611	0	100	73	50	130
N-Decane	1	31.607	0	50	63	20	130
1,3-Dichlorobenzene	1	31.2795	0	50	63	60	130
1,4-Dichlorobenzene	1	37.6998	0	50	75	60	130
1,2-Dichlorobenzene	1	37.5689	0	50	75	50	130
Benzyl alcohol	1	41.528	0	50	83	20	130
bis(2-chloroisopropyl)ether	1	35.8445	0	50	72	40	130
2-Methylphenol	1	85.8424	0	100	86	50	130
Acetophenone	1	48.407	0	50	97	50	130
Hexachloroethane	1	37.3981	0	50	75	50	130
N-Nitroso-di-n-propylamine	1	40.9839	0	50	82	40	130
3&4-Methylphenol	1	93.5365	0	100	94	70	130
Nitrobenzene	1	42.4793	0	50	85	70	130
Isophorone	1	37.7166	0	50	75	60	130
2-Nitrophenol	1	85.4625	0	100	85	70	130
2,4-Dimethylphenol	1	88.3771	0	100	88	40	130
Benzoic Acid	1	39.9473	0	100	40	20	130
bis(2-Chloroethoxy)methane	1	41.9217	0	50	84	60	130
2,4-Dichlorophenol	1	90.0427	0	100	90	70	130
1,2,4-Trichlorobenzene	1	39.468	0	50	79	50	130
Naphthalene	1	38.0451	0	50	76	50	130
4-Chloroaniline	1	35.9568	0	50	72	10	150
Hexachlorobutadiene	1	38.6692	0	50	77	60	130
Caprolactam	1	50.8463	0	50	102	50	130
4-Chloro-3-methylphenol	1	94.3419	0	100	94	50	130
2-Methylnaphthalene	1	44.515	0	50	89	70	130
1-Methylnaphthalene	1	46.7597	0	50	94	70	130
1,1'-Biphenyl	1	48.6051	0	50	97	60	130
1,2,4,5-Tetrachlorobenzene	1	45.7233	0	50	91	70	130
Hexachlorocyclopentadiene	1	32.4653	0	50	65	20	160
2,4,6-Trichlorophenol	1	85.4048	0	100	85	70	130
2,4,5-Trichlorophenol	1	89.8375	0	100	90	70	130
2-Chloronaphthalene	1	42.5693	0	50	85	70	130
1,4-Dimethylnaphthalene	1	48.4646	0	50	97	70	130
Diphenyl Ether	1	46.4227	0	50	93	70	130
2-Nitroaniline	1	49.4419	0	50	99	50	130
Coumarin	1	50.7692	0	50	102	70	130
Acenaphthylene	1	40.8872	0	50	82	70	130
Dimethylphthalate	1	43.5885	0	50	87	70	130
2,6-Dinitrotoluene	1	42.3868	0	50	85	70	130
Acenaphthene	1	42.4613	0	50	85	50	130
3-Nitroaniline	1	41.5796	0	50	83	70	130
2,4-Dinitrophenol	1	70.8	0	100	71	20	150
Dibenzofuran	1	46.6843	0	50	93	70	130
2,4-Dinitrotoluene	1	40.8002	0	50	82	40	130
4-Nitrophenol	1	99.2071	0	100	99	20	150
2,3,4,6-Tetrachlorophenol	1	79.5474	0	100	80	70	130
Fluorene	1	42.9335	0	50	86	50	130
4-Chlorophenyl-phenylether	1	43.521	0	50	87	70	130
Diethylphthalate	1	43.8596	0	50	88	70	130
4-Nitroaniline	1	46.8041	0	50	94	50	130
Atrazine	1	50.9296	0	50	102	50	130
4,6-Dinitro-2-methylphenol	1	90.3681	0	100	90	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96024

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	36.3234	0	50	73	50	130
1,2-Diphenylhydrazine	1	42.6742	0	50	85	70	130
4-Bromophenyl-phenylether	1	44.1148	0	50	88	70	130
Hexachlorobenzene	1	42.1742	0	50	84	70	130
N-Octadecane	1	52.9761	0	50	106	70	130
Pentachlorophenol	1	81.8469	0	100	82	40	130
Phenanthrene	1	44.1621	0	50	88	70	130
Anthracene	1	43.5971	0	50	87	70	130
Carbazole	1	49.9194	0	50	100	70	130
Di-n-butylphthalate	1	44.9398	0	50	90	70	130
Fluoranthene	1	45.792	0	50	92	70	130
Pyrene	1	41.83	0	50	84	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	45.3364	0	50	91	50	130
3,3'-Dichlorobenzidine	1	31.6487	0	50	63	10	130
Benzo[a]anthracene	1	38.9456	0	50	78	70	130
Chrysene	1	46.0414	0	50	92	60	130
bis(2-Ethylhexyl)phthalate	1	44.0683	0	50	88	70	130
Di-n-octylphthalate	1	44.8724	0	50	90	70	130
Benzo[b]fluoranthene	1	45.3256	0	50	91	70	130
Benzo[k]fluoranthene	1	47.3089	0	50	95	70	130
Benzo[a]pyrene	1	42.4666	0	50	85	70	130
Indeno[1,2,3-cd]pyrene	1	48.0567	0	50	96	70	130
Dibenzo[a,h]anthracene	1	45.919	0	50	92	60	130
Benzo[g,h,i]perylene	1	45.1347	0	50	90	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96024

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M119027.D	AD28068-001(MSD)	12/30/2021 11:49:00 A
Non Spike(If applicable):	5M119025.D	AD28068-001	12/30/2021 11:01:00 A
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.2168	0	50	34	25	150
Pyridine	1	29.0088	0	50	58	1	150
N-Nitrosodimethylamine	1	33.0407	0	50	66	50	130
Benzaldehyde	1	34.2463	0	50	68	20	220
Aniline	1	27.0945	0	50	54	20	150
Pentachloroethane	1	34.4644	0	50	69	50	130
bis(2-Chloroethyl)ether	1	35.7413	0	50	71	50	130
Phenol	1	73.0029	0	100	73	20	150
2-Chlorophenol	1	74.3536	0	100	74	50	130
N-Decane	1	27.2165	0	50	54	20	130
1,3-Dichlorobenzene	1	31.1512	0	50	62	60	130
1,4-Dichlorobenzene	1	36.1165	0	50	72	60	130
1,2-Dichlorobenzene	1	35.4603	0	50	71	50	130
Benzyl alcohol	1	42.4936	0	50	85	20	130
bis(2-chloroisopropyl)ether	1	35.055	0	50	70	40	130
2-Methylphenol	1	86.8191	0	100	87	50	130
Acetophenone	1	45.9547	0	50	92	50	130
Hexachloroethane	1	35.2149	0	50	70	50	130
N-Nitroso-di-n-propylamine	1	41.3499	0	50	83	40	130
3&4-Methylphenol	1	92.3346	0	100	92	70	130
Nitrobenzene	1	42.3413	0	50	85	70	130
Isophorone	1	37.7659	0	50	76	60	130
2-Nitrophenol	1	82.7528	0	100	83	70	130
2,4-Dimethylphenol	1	87.254	0	100	87	40	130
Benzoic Acid	1	45.2299	0	100	45	20	130
bis(2-Chloroethoxy)methane	1	41.3064	0	50	83	60	130
2,4-Dichlorophenol	1	88.9003	0	100	89	70	130
1,2,4-Trichlorobenzene	1	39.1515	0	50	78	50	130
Naphthalene	1	36.674	0	50	73	50	130
4-Chloroaniline	1	37.3087	0	50	75	10	150
Hexachlorobutadiene	1	36.5663	0	50	73	60	130
Caprolactam	1	48.9424	0	50	98	50	130
4-Chloro-3-methylphenol	1	94.4312	0	100	94	50	130
2-Methylnaphthalene	1	43.1817	0	50	86	70	130
1-Methylnaphthalene	1	44.2448	0	50	88	70	130
1,1'-Biphenyl	1	46.2792	0	50	93	60	130
1,2,4,5-Tetrachlorobenzene	1	42.1127	0	50	84	70	130
Hexachlorocyclopentadiene	1	29.956	0	50	60	20	160
2,4,6-Trichlorophenol	1	83.8239	0	100	84	70	130
2,4,5-Trichlorophenol	1	89.6256	0	100	90	70	130
2-Chloronaphthalene	1	42.6266	0	50	85	70	130
1,4-Dimethylnaphthalene	1	45.2803	0	50	91	70	130
Diphenyl Ether	1	43.8614	0	50	88	70	130
2-Nitroaniline	1	49.4579	0	50	99	50	130
Coumarin	1	48.592	0	50	97	70	130
Acenaphthylene	1	39.9216	0	50	80	70	130
Dimethylphthalate	1	43.4866	0	50	87	70	130
2,6-Dinitrotoluene	1	43.7904	0	50	88	70	130
Acenaphthene	1	41.3965	0	50	83	50	130
3-Nitroaniline	1	42.7665	0	50	86	70	130
2,4-Dinitrophenol	1	53.7891	0	100	54	20	150
Dibenzofuran	1	44.705	0	50	89	70	130
2,4-Dinitrotoluene	1	41.2154	0	50	82	40	130
4-Nitrophenol	1	102.6968	0	100	103	20	150
2,3,4,6-Tetrachlorophenol	1	82.1194	0	100	82	70	130
Fluorene	1	42.7462	0	50	85	50	130
4-Chlorophenyl-phenylether	1	43.2463	0	50	86	70	130
Diethylphthalate	1	45.2571	0	50	91	70	130
4-Nitroaniline	1	48.3284	0	50	97	50	130
Atrazine	1	51.0043	0	50	102	50	130
4,6-Dinitro-2-methylphenol	1	78.7832	0	100	79	40	130

*=Indicates outside of limits --# - Indicates outside of standard limits but within method exceedance limits--
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96024

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	37.039	0	50	74	50	130
1,2-Diphenylhydrazine	1	42.0938	0	50	84	70	130
4-Bromophenyl-phenylether	1	44.3413	0	50	89	70	130
Hexachlorobenzene	1	41.7553	0	50	84	70	130
N-Octadecane	1	50.6184	0	50	101	70	130
Pentachlorophenol	1	81.8491	0	100	82	40	130
Phenanthrene	1	44.7593	0	50	90	70	130
Anthracene	1	43.8354	0	50	88	70	130
Carbazole	1	49.9597	0	50	100	70	130
Di-n-butylphthalate	1	45.8799	0	50	92	70	130
Fluoranthene	1	46.2154	0	50	92	70	130
Pyrene	1	45.0772	0	50	90	50	130
Benzidine	1	0	0	50	0	0	130
Butylbenzylphthalate	1	47.1179	0	50	94	50	130
3,3'-Dichlorobenzidine	1	35.0992	0	50	70	10	130
Benzo[a]anthracene	1	40.699	0	50	81	70	130
Chrysene	1	49.1507	0	50	98	60	130
bis(2-Ethylhexyl)phthalate	1	47.5091	0	50	95	70	130
Di-n-octylphthalate	1	47.5823	0	50	95	70	130
Benzo[b]fluoranthene	1	47.732	0	50	95	70	130
Benzo[k]fluoranthene	1	45.6307	0	50	91	70	130
Benzo[a]pyrene	1	44.9013	0	50	90	70	130
Indeno[1,2,3-cd]pyrene	1	49.8756	0	50	100	70	130
Dibenzo[a,h]anthracene	1	47.3779	0	50	95	60	130
Benzo[g,h,i]perylene	1	46.8037	0	50	94	70	130

*=Indicates outside of limits #=Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB96024

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M119027.D	AD28068-001(MSD)	12/30/2021 11:49:00 A
Duplicate(If applicable):	5M119026.D	AD28068-001(MS)	12/30/2021 11:25:00 A
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	17.2168	22.1443	25	30
Pyridine	1	29.0088	34.4017	17	30
N-Nitrosodimethylamine	1	33.0407	33.7636	2.2	30
Benzaldehyde	1	34.2463	34.7122	1.4	30
Aniline	1	27.0945	25.2327	7.1	30
Pentachloroethane	1	34.4644	36.6645	6.2	30
bis(2-Chloroethyl)ether	1	35.7413	33.8429	5.5	30
Phenol	1	73.0029	69.3745	5.1	40
2-Chlorophenol	1	74.3536	72.7611	2.2	40
N-Decane	1	27.2165	31.607	15	30
1,3-Dichlorobenzene	1	31.1512	31.2795	0.41	30
1,4-Dichlorobenzene	1	36.1165	37.6998	4.3	40
1,2-Dichlorobenzene	1	35.4603	37.5689	5.8	30
Benzyl alcohol	1	42.4936	41.528	2.3	30
bis(2-chloroisopropyl)ether	1	35.055	35.8445	2.2	30
2-Methylphenol	1	86.8191	85.8424	1.1	40
Acetophenone	1	45.9547	48.407	5.2	30
Hexachloroethane	1	35.2149	37.3981	6	30
N-Nitroso-di-n-propylamine	1	41.3499	40.9839	0.89	40
3&4-Methylphenol	1	92.3346	93.5365	1.3	30
Nitrobenzene	1	42.3413	42.4793	0.33	30
Isophorone	1	37.7659	37.7166	0.13	30
2-Nitrophenol	1	82.7528	85.4625	3.2	30
2,4-Dimethylphenol	1	87.254	88.3771	1.3	40
Benzoic Acid	1	45.2299	39.9473	12	30
bis(2-Chloroethoxy)methane	1	41.3064	41.9217	1.5	30
2,4-Dichlorophenol	1	88.9003	90.0427	1.3	30
1,2,4-Trichlorobenzene	1	39.1515	39.468	0.81	40
Naphthalene	1	36.674	38.0451	3.7	40
4-Chloroaniline	1	37.3087	35.9568	3.7	30
Hexachlorobutadiene	1	36.5663	38.6692	5.6	30
Caprolactam	1	48.9424	50.8463	3.8	30
4-Chloro-3-methylphenol	1	94.4312	94.3419	0.09	40
2-Methylnaphthalene	1	43.1817	44.515	3	30
1-Methylnaphthalene	1	44.2448	46.7597	5.5	30
1,1'-Biphenyl	1	46.2792	48.6051	4.9	30
1,2,4,5-Tetrachlorobenzene	1	42.1127	45.7233	8.2	30
Hexachlorocyclopentadiene	1	29.956	32.4653	8	30
2,4,6-Trichlorophenol	1	83.8239	85.4048	1.9	30
2,4,5-Trichlorophenol	1	89.6256	89.8375	0.24	30
2-Chloronaphthalene	1	42.6266	42.5693	0.13	30
1,4-Dimethylnaphthalene	1	45.2803	48.4646	6.8	30
Diphenyl Ether	1	43.8614	46.4227	5.7	30
2-Nitroaniline	1	49.4579	49.4419	0.03	30
Coumarin	1	48.592	50.7692	4.4	30
Acenaphthylene	1	39.9216	40.8872	2.4	30
Dimethylphthalate	1	43.4866	43.5885	0.23	30
2,6-Dinitrotoluene	1	43.7904	42.3868	3.3	30
Acenaphthene	1	41.3965	42.4613	2.5	40
3-Nitroaniline	1	42.7665	41.5796	2.8	30
2,4-Dinitrophenol	1	53.7891	70.8	27	30
Dibenzofuran	1	44.705	46.6843	4.3	30
2,4-Dinitrotoluene	1	41.2154	40.8002	1	40
4-Nitrophenol	1	102.6968	99.2071	3.5	40
2,3,4,6-Tetrachlorophenol	1	82.1194	79.5474	3.2	30
Fluorene	1	42.7462	42.9335	0.44	40
4-Chlorophenyl-phenylether	1	43.2463	43.521	0.63	30
Diethylphthalate	1	45.2571	43.8596	3.1	30
4-Nitroaniline	1	48.3284	46.8041	3.2	30
Atrazine	1	51.0043	50.9296	0.15	30
4,6-Dinitro-2-methylphenol	1	78.7832	90.3681	14	30

* - Indicates outside of limits NA - Both concentrations=0....no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB96024

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	37.039	36.3234	2	30
1,2-Diphenylhydrazine	1	42.0938	42.6742	1.4	30
4-Bromophenyl-phenylether	1	44.3413	44.1148	0.51	30
Hexachlorobenzene	1	41.7553	42.1742	1	30
N-Octadecane	1	50.6184	52.9761	4.6	30
Pentachlorophenol	1	81.8491	81.8469	0	40
Phenanthrene	1	44.7593	44.1621	1.3	30
Anthracene	1	43.8354	43.5971	0.55	30
Carbazole	1	49.9597	49.9194	0.08	30
Di-n-butylphthalate	1	45.8799	44.9398	2.1	30
Fluoranthene	1	46.2154	45.792	0.92	30
Pyrene	1	45.0772	41.83	7.5	40
Benzidine	1	0	0	NA	30
Butylbenzylphthalate	1	47.1179	45.3364	3.9	40
3,3'-Dichlorobenzidine	1	35.0992	31.6487	10	30
Benzo[a]anthracene	1	40.699	38.9456	4.4	30
Chrysene	1	49.1507	46.0414	6.5	30
bis(2-Ethylhexyl)phthalate	1	47.5091	44.0683	7.5	30
Di-n-octylphthalate	1	47.5823	44.8724	5.9	30
Benzo[b]fluoranthene	1	47.732	45.3256	5.2	30
Benzo[k]fluoranthene	1	45.6307	47.3089	3.6	30
Benzo[a]pyrene	1	44.9013	42.4666	5.6	30
Indeno[1,2,3-cd]pyrene	1	49.8756	48.0567	3.7	30
Dibenzo[a,h]anthracene	1	47.3779	45.919	3.1	30
Benzo[g,h,i]perylene	1	46.8037	45.1347	3.6	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB96024
Blank Data File: 7M118765.D
Matrix: Soil

Blank Analysis Date: 12/29/21 14:47
Blank Extraction Date: 12/29/21
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD28000-001	7M118773.D	12/30/21 08:30
SMB96024(MS)	7M118764.D	12/29/21 14:22
AD28068-001(MSD	5M119027.D	12/30/21 11:49
AD28068-001(MS)	5M119026.D	12/30/21 11:25
AD28068-001	5M119025.D	12/30/21 11:01

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M118592.D
Analysis Date: 12/20/21 08:55
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.155 to 10.161 min

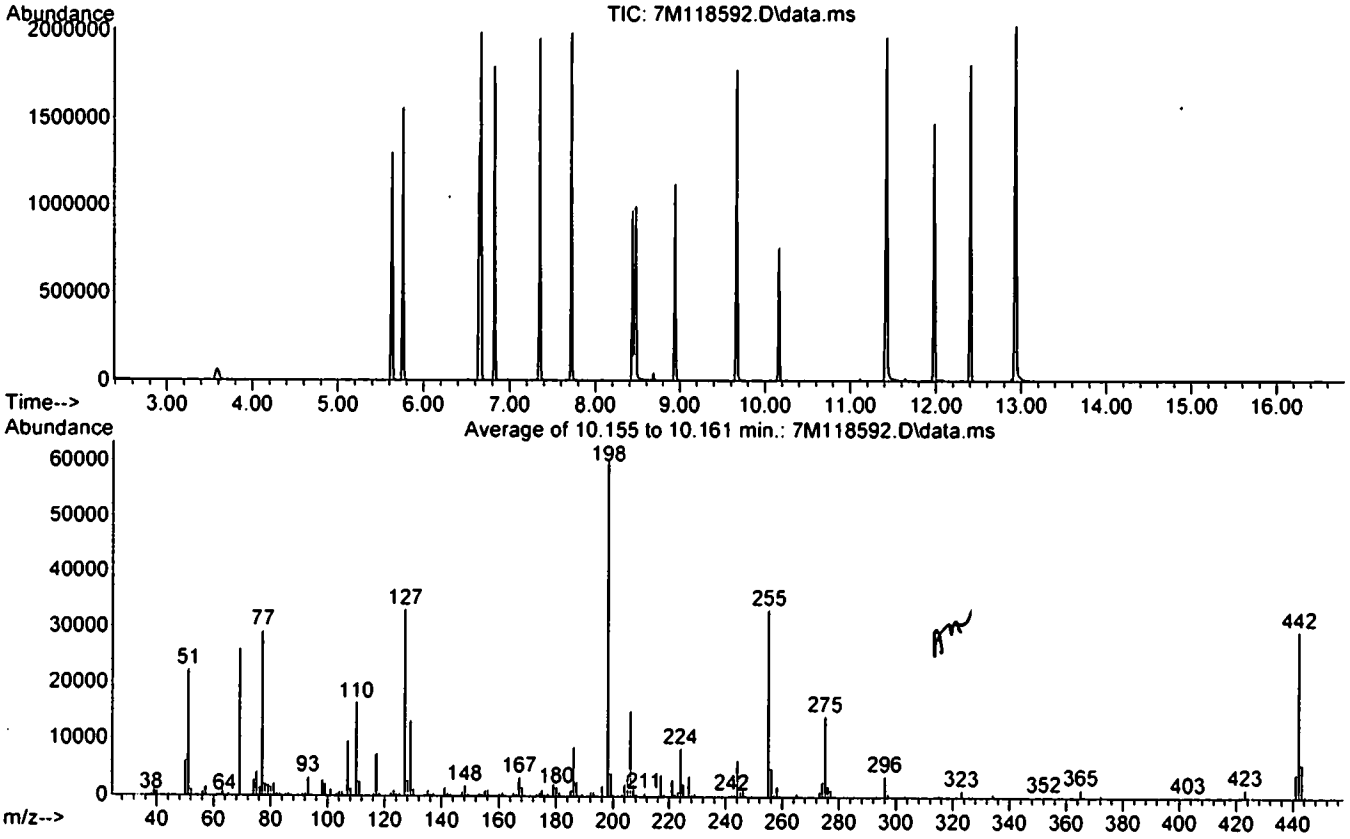
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.0	22325	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	26092	PASS
70	69	0.00	2	0.4	98	PASS
127	198	40	60	55.0	33188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60372	PASS
199	198	5	9	6.8	4112	PASS
275	198	10	30	23.7	14291	PASS
365	198	1	100	2.5	1496	PASS
441	443	0.01	100	71.9	4256	PASS
442	198	40	100	49.2	29700	PASS
443	442	17	23	19.9	5915	PASS

Data File	Sample Number	Analysis Date:
7M118593.D	CAL BNA@2PPM	12/20/21 09:25
7M118594.D	BNA@10PPM	12/20/21 09:48
7M118595.D	CAL BNA@196PP	12/20/21 10:12
7M118596.D	CAL BNA@20PPM	12/20/21 10:40
7M118597.D	CAL BNA@10PPM	12/20/21 11:06
7M118598.D	CAL BNA@160PP	12/20/21 11:30
7M118599.D	CAL BNA@120PP	12/20/21 11:55
7M118600.D	CAL BNA@80PPM	12/20/21 12:19
7M118601.D	CAL BNA@0.5PP	12/20/21 12:46
7M118602.D	CAL BNA@50PPM	12/20/21 13:10
7M118603.D	ICV BNA@50PPM	12/20/21 13:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-20-21\
Data File : 7M118592.D
Acq On : 20 Dec 2021 8:55
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1117.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Nov 17 14:43:55 2021



Spectrum Information: Average of 10.155 to 10.161 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.0	22325	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	26092	PASS
70	69	0.00	2	0.4	98	PASS
127	198	40	60	55.0	33188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60372	PASS
199	198	5	9	6.8	4112	PASS
275	198	10	30	23.7	14291	PASS
365	198	1	100	2.5	1496	PASS
441	443	0.01	100	71.9	4256	PASS
442	198	40	100	49.2	29700	PASS
443	442	17	23	19.9	5915	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M118908.D
Analysis Date: 12/20/21 08:57
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.909 to 9.914 min

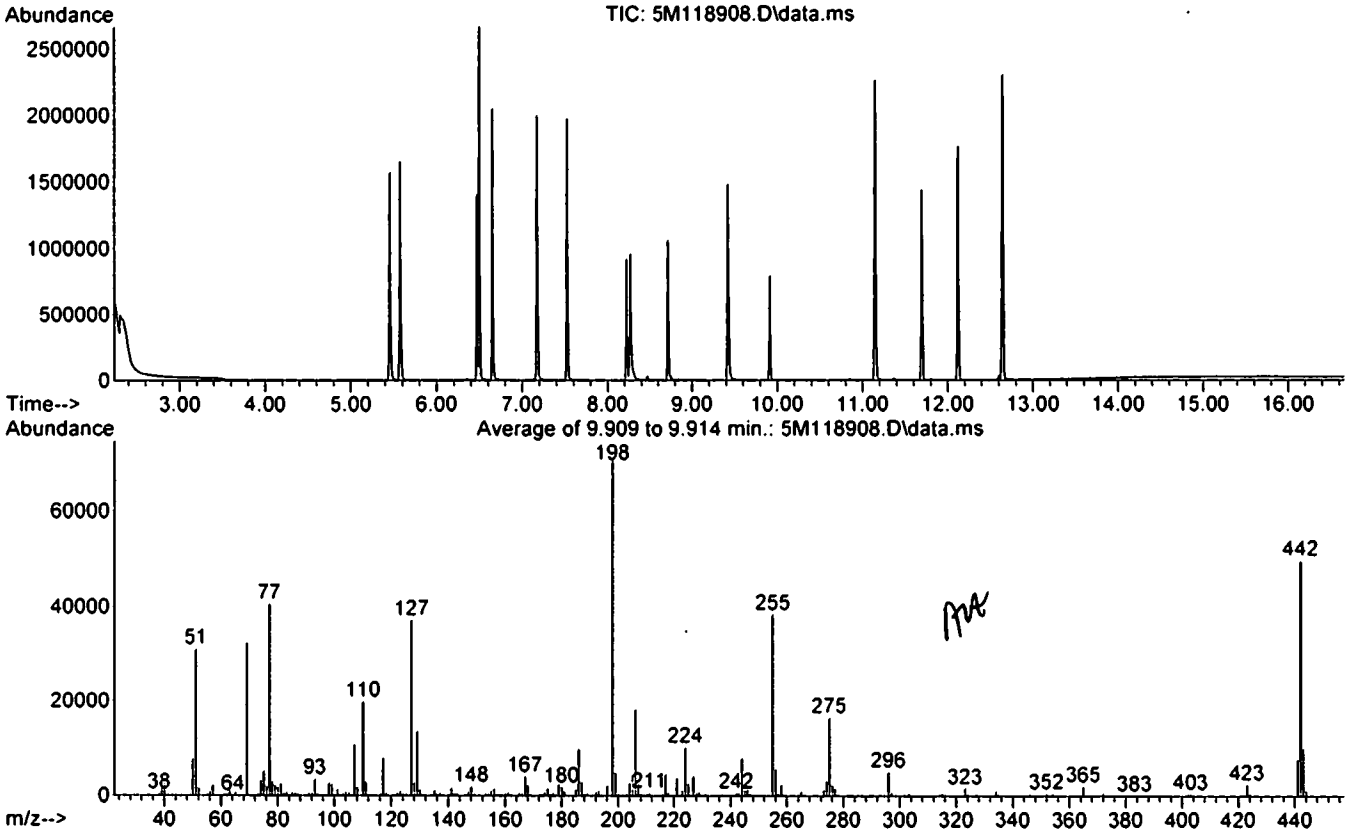
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	43.6	31100	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.4	32376	PASS
70	69	0.00	2	0.7	224	PASS
127	198	40	60	52.3	37256	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	71292	PASS
199	198	5	9	6.7	4809	PASS
275	198	10	30	23.2	16536	PASS
365	198	1	100	2.8	2026	PASS
441	443	0.01	100	77.6	7689	PASS
442	198	40	100	69.6	49636	PASS
443	442	17	23	20.0	9913	PASS

Data File	Sample Number	Analysis Date:
5M118909.D	BNA@10PPM	12/20/21 09:26
5M118910.D	CAL BNA@2PPM	12/20/21 09:50
5M118911.D	BNA@20PPM	12/20/21 10:14
5M118912.D	CAL BNA@10PPM	12/20/21 10:40
5M118913.D	CAL BNA@196PP	12/20/21 11:06
5M118914.D	CAL BNA@160PP	12/20/21 11:29
5M118915.D	CAL BNA@120PP	12/20/21 11:53
5M118916.D	CAL BNA@80PPM	12/20/21 12:17
5M118917.D	CAL BNA@20PPM	12/20/21 12:41
5M118918.D	CAL BNA@0.5PP	12/20/21 13:04
5M118919.D	CAL BNA@50PPM	12/20/21 13:28
5M118920.D	ICV BNA@50PPM	12/20/21 14:02
5M118921.D	AD27878-014	12/20/21 14:36
5M118922.D	AD27878-015	12/20/21 14:59
5M118923.D	AD27866-017(10X)	12/20/21 15:23

Data Path : G:\GcMsData\2021\GCMS_5\Data\12-20-21\
Data File : 5M118908.D
Acq On : 20 Dec 2021 8:57
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1110.M
Title : @GCMS_5,mg,625,8270
Last Update : Wed Nov 10 11:06:55 2021



Spectrum Information: Average of 9.909 to 9.914 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.6	31100	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.4	32376	PASS
70	69	0.00	2	0.7	224	PASS
127	198	40	60	52.3	37256	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	71292	PASS
199	198	5	9	6.7	4809	PASS
275	198	10	30	23.2	16536	PASS
365	198	1	100	2.8	2026	PASS
441	443	0.01	100	77.6	7689	PASS
442	198	40	100	69.6	49636	PASS
443	442	17	23	20.0	9913	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M118754.D
Analysis Date: 12/29/21 10:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.166 to 10.172 min

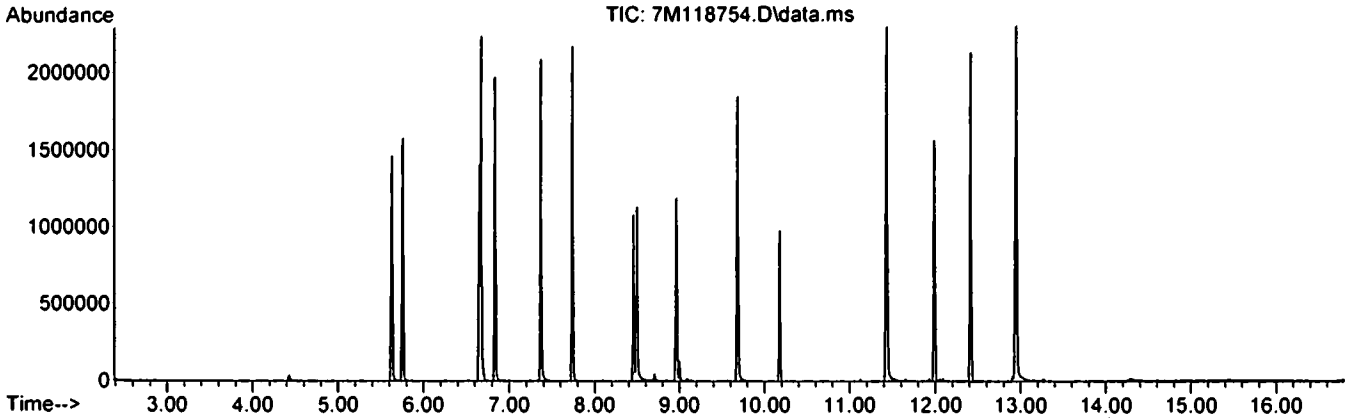
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	39.0	19329	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.4	22024	PASS
70	69	0.00	2	0.6	122	PASS
127	198	40	60	55.2	27384	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	49620	PASS
199	198	5	9	7.1	3502	PASS
275	198	10	30	22.4	11135	PASS
365	198	1	100	2.0	998	PASS
441	443	0.01	100	74.1	3181	PASS
442	198	40	100	44.2	21927	PASS
443	442	17	23	19.6	4291	PASS

Data File	Sample Number	Analysis Date:
7M118755.D	CAL BNA@50PPM	12/29/21 10:25
7M118756.D	OMB96021	12/29/21 10:52
7M118757.D	AD28013-001(5X)	12/29/21 11:16
7M118758.D	AD28013-001(5X)(	12/29/21 11:40
7M118759.D	AD28013-001(5X)(	12/29/21 12:04
7M118760.D	AD27444-001(5X)(	12/29/21 12:46
7M118761.D	AD27910-018(20X)	12/29/21 13:10
7M118762.D	AD28036-009	12/29/21 13:34
7M118763.D	AD28088-001	12/29/21 13:58
7M118764.D	SMB96024(MS)	12/29/21 14:22
7M118765.D	SMB96024	12/29/21 14:47
7M118766.D	AD27919-010(R)	12/29/21 15:11
7M118767.D	AD28036-002(R)	12/29/21 15:35
7M118768.D	AD27444-001(10X)	12/29/21 16:00
7M118769.D	96021	12/29/21 16:24
7M118770.D	SMB96012	12/29/21 16:48

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-29-21\
Data File : 7M118754.D
Acq On : 29 Dec 2021 10:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1220.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Dec 20 13:43:00 2021



Spectrum Information: Average of 10.166 to 10.172 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	19329	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.4	22024	PASS
70	69	0.00	2	0.6	122	PASS
127	198	40	60	55.2	27384	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	49620	PASS
199	198	5	9	7.1	3502	PASS
275	198	10	30	22.4	11135	PASS
365	198	1	100	2.0	998	PASS
441	443	0.01	100	74.1	3181	PASS
442	198	40	100	44.2	21927	PASS
443	442	17	23	19.6	4291	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M118771.D
Analysis Date: 12/30/21 07:42
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.155 to 10.161 min

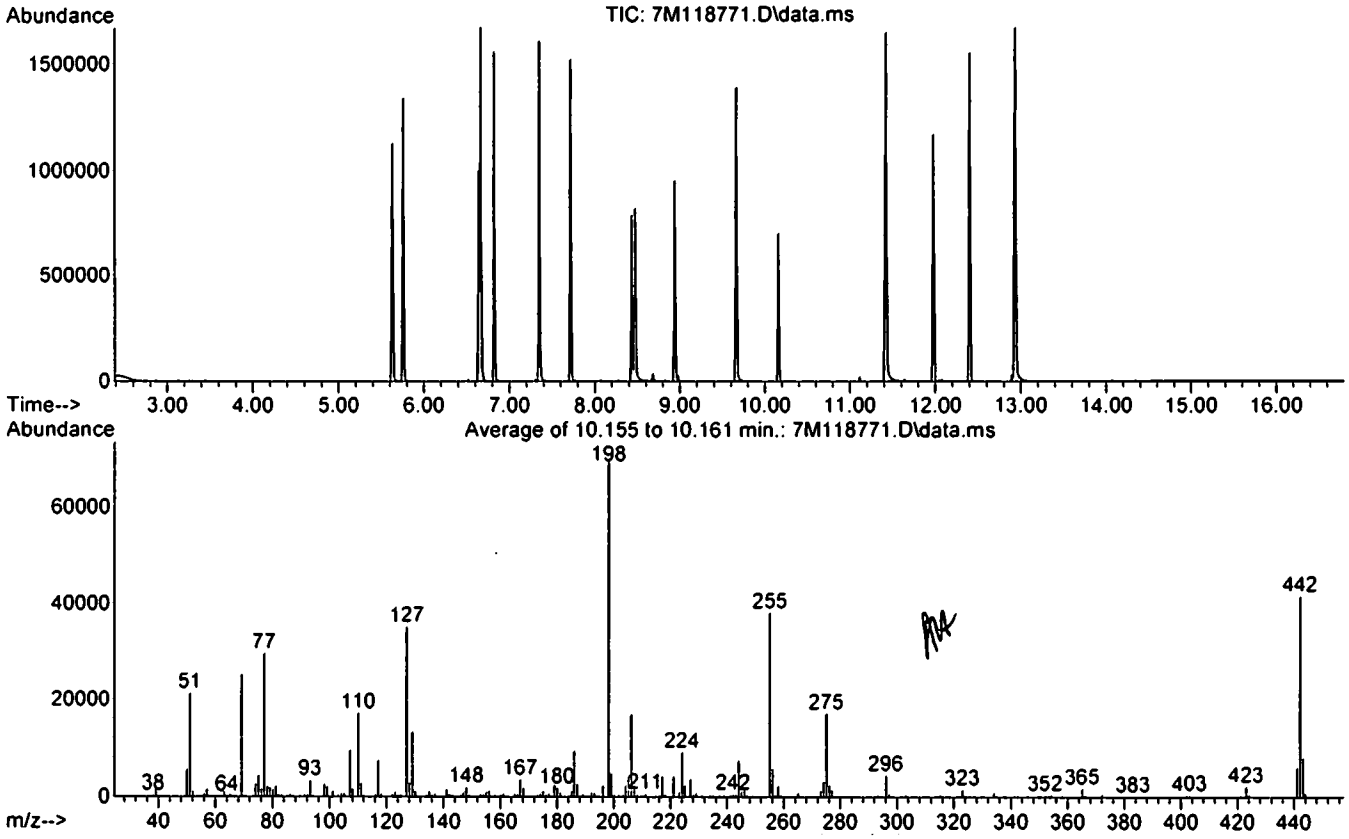
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.5	21308	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.1	25260	PASS
70	69	0.00	2	0.7	166	PASS
127	198	40	60	50.3	35184	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	69936	PASS
199	198	5	9	6.7	4696	PASS
275	198	10	30	24.6	17171	PASS
365	198	1	100	2.4	1708	PASS
441	443	0.01	100	75.1	6081	PASS
442	198	40	100	59.6	41708	PASS
443	442	17	23	19.4	8096	PASS

Data File	Sample Number	Analysis Date:
7M118772.D	CAL BNA@50PPM	12/30/21 08:06
7M118773.D	AD28000-001	12/30/21 08:30
7M118774.D	AD28068-004	12/30/21 08:54
7M118775.D	AD27919-010(R)	12/30/21 09:19
7M118776.D	AD28068-005	12/30/21 09:43
7M118777.D	AD27969-005	12/30/21 10:07
7M118778.D	AD28052-005	12/30/21 10:32
7M118779.D	AD28052-001(5X)	12/30/21 10:56
7M118780.D	AD28052-006(5X)	12/30/21 11:20
7M118781.D	AD28052-003	12/30/21 11:44
7M118782.D	AD28052-004	12/30/21 12:08
7M118783.D	AD27969-006(3X)	12/30/21 12:32
7M118784.D	AD28052-002(5X)	12/30/21 13:03
7M118785.D	AD28052-007(5X)	12/30/21 13:27

Data Path : G:\GcMsData\2021\GCMS_7\Data\12-30-21\
Data File : 7M118771.D
Acq On : 30 Dec 2021 7:42
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_1220.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Dec 20 13:43:00 2021



Spectrum Information: Average of 10.155 to 10.161 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.5	21308	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.1	25260	PASS
70	69	0.00	2	0.7	166	PASS
127	198	40	60	50.3	35184	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	69936	PASS
199	198	5	9	6.7	4696	PASS
275	198	10	30	24.6	17171	PASS
365	198	1	100	2.4	1708	PASS
441	443	0.01	100	75.1	6081	PASS
442	198	40	100	59.6	41708	PASS
443	442	17	23	19.4	8096	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M119023.D
Analysis Date: 12/30/21 10:14
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.903 to 9.909 min

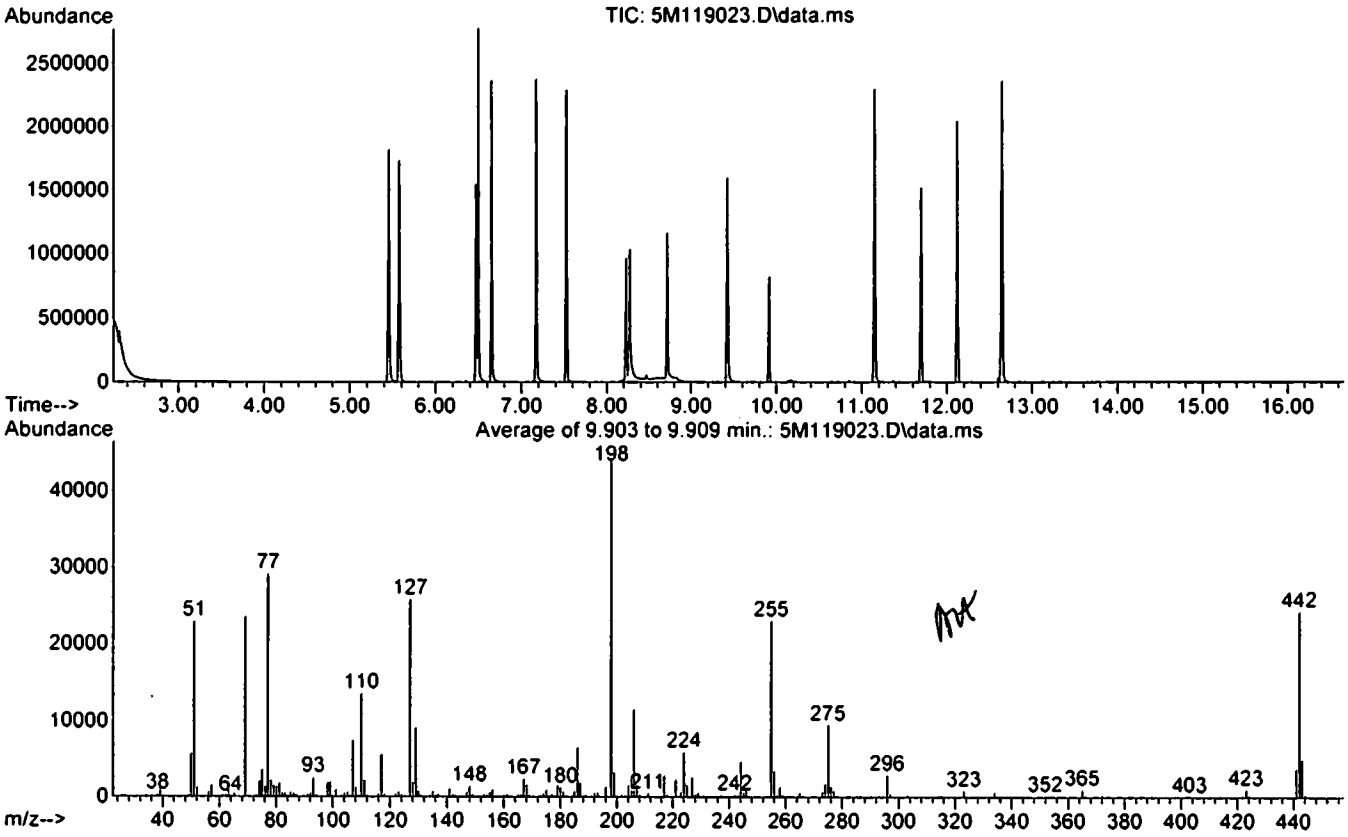
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	51.7	22935	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.1	23558	PASS
70	69	0.00	2	0.4	95	PASS
127	198	40	60	58.3	25849	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44344	PASS
199	198	5	9	7.5	3304	PASS
275	198	10	30	21.4	9507	PASS
365	198	1	100	2.3	1006	PASS
441	443	0.01	100	75.6	3758	PASS
442	198	40	100	54.8	24322	PASS
443	442	17	23	20.4	4970	PASS

Data File	Sample Number	Analysis Date:
5M119024.D	CAL BNA@50PPM	12/30/21 10:37
5M119025.D	AD28068-001	12/30/21 11:01
5M119026.D	AD28068-001(MS)	12/30/21 11:25
5M119027.D	AD28068-001(MSD	12/30/21 11:49
5M119028.D	AD28092-001	12/30/21 13:08
5M119029.D	AD28092-007	12/30/21 13:31
5M119030.D	AD28092-008	12/30/21 13:55
5M119031.D	SMB96034(MS)	12/30/21 14:18
5M119032.D	AD28068-002	12/30/21 14:42
5M119033.D	AD28068-003	12/30/21 15:06
5M119034.D	WMB96033	12/30/21 15:30
5M119035.D	SMB96034	12/30/21 15:54

Data Path : G:\GcMsData\2021\GCMS_5\Data\12-30-21\
Data File : 5M119023.D
Acq On : 30 Dec 2021 10:14
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_1220.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Dec 20 14:14:29 2021



Spectrum Information: Average of 9.903 to 9.909 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.7	22935	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.1	23558	PASS
70	69	0.00	2	0.4	95	PASS
127	198	40	60	58.3	25849	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	44344	PASS
199	198	5	9	7.5	3304	PASS
275	198	10	30	21.4	9507	PASS
365	198	1	100	2.3	1006	PASS
441	443	0.01	100	75.6	3758	PASS
442	198	40	100	54.8	24322	PASS
443	442	17	23	20.4	4970	PASS

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.8945	0.9127	0.8842	0.9167	0.9231	0.9139	0.8895	0.9514	0.4553	0.860	2.80	0.998	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0327	1.7523	1.9162	2.0557	2.1417	2.1882	2.1356	2.2029	-----	2.05	3.26	0.999	1.00	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.3707	1.2840	1.2757	1.3735	1.4551	1.4357	1.4063	1.4790	-----	1.39	3.22	0.999	0.999	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2144	1.9930	2.4771	2.3467	2.4215	2.3761	2.6019	2.3715	-----	2.35	4.75	0.997	0.997	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7459	1.7574	1.7395	1.8672	1.8700	1.7718	1.6945	1.7236	-----	1.77	5.57	0.999	0.999	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3496	3.1555	3.3095	3.5401	3.5590	3.3830	3.2144	3.2980	3.7879	3.40	5.66	0.999	0.999	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.7937	0.8032	0.8146	0.8831	0.8609	0.8202	0.7798	0.8052	-----	0.820	5.70	0.998	0.999	4.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.1632	2.1093	2.2638	2.3788	2.2890	2.0482	1.9820	2.0139	2.4521	2.19	5.71	0.997	0.998	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.5651	2.4488	3.0319	2.7289	2.7690	2.6705	2.8958	2.5702	-----	2.71	5.61	0.994	0.994	7.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.9569	2.8899	2.9890	3.1933	3.1604	2.9278	2.7335	2.7945	-----	2.96	5.62	0.997	0.998	5.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4178	2.2467	2.3895	2.6021	2.5976	2.4655	2.3138	2.3913	-----	2.43	5.75	0.998	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.7066	1.8692	1.8253	1.9408	1.7847	1.6154	1.5328	1.5651	-----	1.73	5.80	0.997	0.998	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6631	2.7718	2.7462	2.9135	2.8196	2.5845	2.4560	2.5141	-----	2.68	5.89	0.997	0.998	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.3652	1.4980	1.4106	1.4503	1.3883	1.3421	1.3144	1.3692	-----	1.39	5.95	0.999	0.999	4.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.2981	1.4203	1.3315	1.3702	1.3261	1.2796	1.2439	1.2894	-----	1.32	6.07	0.999	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.7715	0.6951	0.7558	0.8028	0.7912	0.7882	0.7722	0.7984	-----	0.772	6.04	1.00	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	0.9879	1.0608	1.0420	1.0856	1.0072	0.9650	0.9471	0.9692	-----	1.01	6.15	0.999	0.999	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.0253	0.9959	1.0426	1.1011	1.0593	1.0378	1.0152	1.0472	0.9628	1.03	6.13	1.00	1.00	3.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.5068	1.6695	1.5659	1.6930	1.4687	1.3125	1.2388	1.2847	-----	1.47	6.26	0.995	0.997	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5088	0.5557	0.5176	0.5561	0.5227	0.5121	0.5006	0.5185	-----	0.524	6.35	0.999	0.999	4.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.7139	0.7862	0.7834	0.8036	0.7088	0.6729	0.6685	0.6859	0.8574	0.742	6.26	0.998	0.999	9.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.0368	0.9878	1.0637	1.1500	1.0300	0.9097	0.8859	0.8949	1.1983	1.02	6.25	0.994	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1509	0.1348	0.1683	0.1544	0.1557	0.1598	0.1791	0.1628	-----	0.158	6.38	0.996	0.997	8.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3051	0.3005	0.3049	0.3176	0.3042	0.3001	0.2907	0.3042	-----	0.303	6.40	0.999	0.999	2.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5488	0.5637	0.5665	0.5907	0.5575	0.5695	0.5515	0.5816	-----	0.566	6.58	0.999	0.999	2.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1715	0.1514	0.1572	0.1743	0.1782	0.1801	0.1746	0.1824	-----	0.171	6.65	0.999	1.00	6.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3044	0.2977	0.3137	0.3225	0.3076	0.3089	0.2992	0.3123	0.3312	0.311	6.66	0.999	0.999	3.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2369	-----	0.1622	0.1942	0.2565	0.2844	0.2761	0.2932	-----	0.243	6.73	0.997	0.999	20		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3278	0.3356	0.3401	0.3645	0.3274	0.3183	0.3111	0.3196	-----	0.331	6.74	0.999	0.999	5.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2590	0.2177	0.2494	0.2653	0.2639	0.2638	0.2574	0.2700	0.2264	0.253	6.82	0.999	0.999	7.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2940	0.3273	0.3006	0.3188	0.2981	0.2888	0.2796	0.2901	-----	0.300	6.89	0.999	0.999	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9094	1.0096	0.9380	0.9795	0.8967	0.8508	0.8288	0.8556	1.1025	0.930	6.96	0.999	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3685	0.3536	0.3638	0.3937	0.3678	0.3516	0.3376	0.3476	0.3977	0.365	6.99	0.999	0.999	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1634	0.1803	0.1694	0.1819	0.1690	0.1694	0.1663	0.1711	-----	0.171	7.05	1.00	1.00	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0936	0.0761	0.0895	0.0977	0.0989	0.1108	0.1057	0.1126	-----	0.0981	7.28	0.997	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2553	0.2012	0.2501	0.2695	0.2643	0.2695	0.2585	0.2695	-----	0.255	7.36	0.999	0.999	9.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6051	0.6230	0.6182	0.6460	0.6036	0.5835	0.5593	0.5750	-----	0.602	7.50	0.999	0.999	4.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.5859	0.6425	0.6091	0.6243	0.5752	0.5595	0.5400	0.5524	-----	0.586	7.58	0.999	0.999	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.5952	0.6327	0.6136	0.6360	0.5895	0.5728	0.5493	0.5636	-----	0.594	7.50	0.999	0.999	5.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7387	0.7701	0.7794	0.8032	0.7362	0.7079	0.6856	0.6960	-----	0.740	7.88	0.999	1.00	5.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5694	0.5850	0.5655	0.6206	0.5802	0.5670	0.5336	0.5713	-----	0.574	7.63	0.998	0.998	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.613

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121801 0070

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3262	0.2389	0.2847	0.3315	0.3622	0.3870	0.3818	0.4093	----	0.340	7.62	0.997	0.999	17	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4532	0.3142	0.3638	0.3936	0.3996	0.4038	0.3932	0.4159	----	0.392	7.72	0.998	0.998	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3411	0.2996	0.3783	0.4106	0.4306	0.4388	0.4281	0.4522	----	0.397	7.76	0.997	0.998	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3771	1.3958	1.5655	1.4609	1.3830	1.3961	1.5396	1.4361	----	1.44	7.79	0.998	0.998	5.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1263	1.1548	1.1262	1.2011	1.1104	1.0677	1.0426	1.0877	----	1.11	7.90	0.999	0.999	4.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8734	1.0076	0.9453	0.9911	0.8443	0.7532	0.7269	0.7410	----	0.860	8.19	0.996	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8734	1.0076	0.9453	0.9911	0.8443	0.7532	0.7269	0.7410	----	0.860	8.19	0.993	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7767	0.8332	0.7978	0.8570	0.7912	0.7678	0.7296	0.7852	----	0.792	7.97	0.997	0.998	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3520	0.2648	0.3249	0.3597	0.3624	0.3608	0.3517	0.3705	----	0.343	7.99	0.999	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4371	0.3887	0.4479	0.4641	0.4281	0.3827	0.3648	0.3681	----	0.410	8.17	0.995	0.998	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7819	1.8312	1.8221	1.9190	1.7612	1.7105	1.6688	1.7269	----	1.78	8.27	0.999	0.999	4.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2520	1.3886	1.3328	1.3934	1.2942	1.2888	1.2492	1.3260	----	1.32	8.13	0.998	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2869	0.2674	0.3000	0.3130	0.2838	0.2573	0.2451	0.2569	----	0.276	8.19	0.996	0.997	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.0988	1.2243	1.1537	1.2183	1.1049	1.0707	1.0389	1.1008	----	1.13	8.43	0.998	0.998	5.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3280	0.2274	0.3154	0.3500	0.3372	0.3286	0.3220	0.3380	----	0.318	8.35	0.999	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1396	----	0.0762	0.1127	0.1701	0.1889	0.1818	0.2032	----	0.153	8.44	0.994	0.997	30	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5782	1.7126	1.6148	1.7011	1.5678	1.5384	1.4959	1.5661	1.8447	1.62	8.59	0.999	0.999	6.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4008	0.2986	0.3720	0.4080	0.4165	0.4304	0.4159	0.4397	----	0.398	8.56	0.999	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2306	0.0761	0.1515	0.2274	0.2265	0.2515	0.2473	0.2637	----	0.209	8.46	0.997	0.999	30	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3408	0.2915	0.3267	0.3637	0.3637	0.3698	0.3631	0.3818	----	0.350	8.69	0.999	1.00	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2594	1.3253	1.3232	1.3797	1.2581	1.2289	1.1866	1.2454	----	1.28	8.92	0.999	0.999	4.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6122	0.6467	0.6483	0.6654	0.6264	0.6137	0.5933	0.6250	----	0.629	8.90	0.999	0.999	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2680	1.3364	1.3257	1.4027	1.3065	1.3045	1.2726	1.3307	----	1.32	8.78	0.999	0.999	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3427	0.2102	0.3396	0.3594	0.3504	0.3557	0.3494	0.3659	----	0.334	8.92	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3655	0.3230	0.3582	0.3938	0.3960	0.4057	0.3948	0.4204	----	0.382	9.67	0.998	0.999	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1033	----	0.0763	0.0991	0.1132	0.1176	0.1161	0.1234	----	0.107	8.94	0.998	0.999	15	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5532	0.5552	0.5751	0.6118	0.5515	0.5454	0.5343	0.5542	----	0.560	9.01	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1034	0.0765	0.1068	0.1065	0.1115	0.1176	0.1341	0.1244	----	0.110	9.15	0.993	0.995	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.5753	0.6704	0.6688	0.7066	0.6303	0.6092	0.5929	0.6094	----	0.633	9.06	0.998	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1920	0.1895	0.1892	0.2082	0.2013	0.2067	0.2019	0.2132	----	0.200	9.40	0.998	0.999	4.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2173	0.2201	0.2150	0.2307	0.2265	0.2315	0.2263	0.2378	----	0.226	9.46	0.999	0.999	3.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2807	0.2716	0.3012	0.3195	0.2848	0.2746	0.2692	0.2753	----	0.285	9.74	0.999	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1400	----	0.1126	0.1399	0.1535	0.1611	0.1606	0.1697	----	0.148	9.67	0.998	0.999	13	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	0.9536	1.1009	1.0068	1.0526	0.9496	0.9303	0.9098	0.9498	----	0.982	9.91	0.999	0.999	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	0.9799	1.0336	1.0100	1.0507	0.9755	0.9475	0.9378	0.9653	----	0.988	9.97	0.999	0.999	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.8899	0.8940	0.9177	0.9660	0.8906	0.8843	0.8770	0.9060	----	0.903	10.14	0.999	1.00	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.0637	1.0132	1.1137	1.1784	1.1118	1.0914	1.0612	1.0980	1.1119	1.09	10.52	0.999	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.0704	1.0737	1.0781	1.1363	1.0848	1.0928	1.0583	1.1049	----	1.09	11.26	0.999	0.999	2.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1649	1.2695	1.2059	1.2509	1.1746	1.1903	1.1636	1.2443	----	1.21	11.53	0.998	0.999	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7541	0.3040	0.6108	0.7347	0.7796	0.7855	0.7647	0.8194	----	0.694	11.42	0.998	0.999	24		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6355	0.6071	0.7238	0.6630	0.6654	0.6955	0.7948	0.7597	----	0.693	11.71	0.993	0.997	9.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.613

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121801 0071

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M118602.D	CAL BNA@50PPM	12/20/21 13:10	2	7M118593.D	CAL BNA@2PPM	12/20/21 09:25
3	7M118597.D	CAL BNA@10PPM	12/20/21 11:06	4	7M118596.D	CAL BNA@20PPM	12/20/21 10:40
5	7M118600.D	CAL BNA@80PPM	12/20/21 12:19	6	7M118599.D	CAL BNA@120PPM	12/20/21 11:55
7	7M118598.D	CAL BNA@160PPM	12/20/21 11:30	8	7M118595.D	CAL BNA@196PPM	12/20/21 10:12
9	7M118601.D	CAL BNA@0.5PPM	12/20/21 12:46				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2261	0.2416	0.2313	0.2476	0.2487	0.2626	0.2560	0.2839	-----	0.250	11.64	0.994	0.998	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4281	0.4067	0.4222	0.4620	0.4548	0.4593	0.4446	0.4832	-----	0.445	12.05	0.998	0.999	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5059	0.4547	0.5043	0.5477	0.5411	0.5520	0.5464	0.5834	-----	0.529	12.31	0.998	0.999	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3618	0.2823	0.3497	0.3884	0.3823	0.3737	0.3569	0.3878	-----	0.360	12.41	0.997	0.997	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4571	0.2887	0.4170	0.4833	0.4902	0.4893	0.4795	0.5075	-----	0.452	12.93	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1152	1.2662	1.1587	1.2056	1.1542	1.1422	1.1668	1.2597	-----	1.18	12.96	0.996	0.999	4.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	0.9775	1.3130	1.0937	1.1367	0.9898	0.9891	0.9326	1.0104	-----	1.06	13.00	0.997	0.997	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.6697	0.6565	0.7255	0.7713	0.6946	0.6810	0.6680	0.7107	-----	0.697	13.00	0.998	0.999	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.0740	0.7956	1.0743	1.1550	1.1538	1.1563	1.1315	1.2218	-----	1.10	13.77	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0348	0.9220	0.9886	1.0701	1.0850	1.1299	1.1348	1.2695	-----	1.08	14.20	0.995	0.999	9.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	0.9859	1.0281	1.0828	1.0992	1.0021	1.0140	0.9777	1.0308	-----	1.03	14.24	0.999	0.999	4.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	0.9911	0.9349	0.9624	1.0508	1.0207	1.0609	1.0436	1.1357	-----	1.03	14.58	0.996	0.999	6.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.0642	0.9465	1.0163	1.0884	1.1366	1.1826	1.1624	1.2728	-----	1.11	16.09	0.997	0.999	9.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9243	0.7669	0.8972	0.9459	0.9925	1.0100	0.9964	1.0843	-----	0.952	16.11	0.996	0.999	9.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9225	0.9247	0.9204	0.9713	0.9895	1.0047	0.9938	1.0668	-----	0.974	16.51	0.997	0.999	5.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.613

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121801 0072

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118919.D	CAL BNA@50PPM	12/20/21 13:28	2	5M118910.D	CAL BNA@2PPM	12/20/21 09:50
3	5M118912.D	CAL BNA@10PPM	12/20/21 10:40	4	5M118917.D	CAL BNA@20PPM	12/20/21 12:41
5	5M118916.D	CAL BNA@80PPM	12/20/21 12:17	6	5M118915.D	CAL BNA@120PPM	12/20/21 11:53
7	5M118914.D	CAL BNA@160PPM	12/20/21 11:29	8	5M118913.D	CAL BNA@196PPM	12/20/21 11:06
9	5M118918.D	CAL BNA@0.5PPM	12/20/21 13:04				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9682	0.8663	0.9310	1.0129	0.9425	0.9576	0.9477	0.9740	0.4852	0.898	2.56	1.00	1.00	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.1557	2.2235	2.0248	2.0625	2.2090	2.2519	2.2641	2.3270	----	2.19	3.00	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4508	1.4719	1.3286	1.4178	1.4862	1.5055	1.5321	1.5535	----	1.47	2.95	1.00	1.00	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.5922	1.3620	1.4360	1.5582	1.6442	1.6569	1.6740	1.6677	----	1.57	4.56	1.00	1.00	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.2181	1.2094	1.1003	1.1804	1.2299	1.2277	1.2366	1.2118	----	1.20	5.38	1.00	1.00	3.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.2435	2.3005	2.0803	2.1913	2.2926	2.2190	2.2510	2.2753	2.1742	2.23	5.47	1.00	1.00	3.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.4921	0.5174	0.4560	0.4888	0.4945	0.4829	0.4906	0.4828	----	0.488	5.52	1.00	1.00	3.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.4574	1.6540	1.4480	1.5038	1.4774	1.4943	1.4869	1.4638	1.7103	1.52	5.53	1.00	1.00	6.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.0952	1.7749	1.9320	2.0197	2.0854	2.0577	2.1199	2.0776	----	2.02	5.44	1.00	1.00	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.0443	2.0884	1.9231	1.9923	2.0632	2.0312	2.0580	2.0552	----	2.03	5.45	1.00	1.00	2.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.3933	1.4641	1.2773	1.3950	1.4119	1.3926	1.3836	1.3960	----	1.39	5.58	1.00	1.00	3.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.4956	1.6964	1.4453	1.4878	1.5184	1.4911	1.4790	1.4844	----	1.51	5.61	1.00	1.00	5.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	1.4778	1.6952	1.4238	1.4737	1.4664	1.4252	1.4385	1.4401	----	1.48	5.70	1.00	1.00	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4979	1.6403	1.4233	1.4393	1.4496	1.4470	1.4617	1.4843	----	1.48	5.77	1.00	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4118	1.4814	1.3497	1.3686	1.3578	1.3600	1.3688	1.4116	----	1.39	5.89	0.999	1.00	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9453	0.8458	0.8241	0.8810	0.9473	0.9548	0.9705	1.0120	----	0.923	5.87	0.999	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.7193	1.9088	1.6426	1.6812	1.6724	1.7041	1.6827	1.7484	----	1.72	5.98	1.00	1.00	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3374	1.3086	1.1870	1.2694	1.3073	1.3180	1.3216	1.3711	1.1639	1.29	5.96	0.999	1.00	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8548	1.8714	1.7507	1.8119	1.7959	1.6778	1.6349	1.5968	----	1.75	6.08	0.997	1.00	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5936	0.5981	0.5417	0.5759	0.5729	0.5857	0.5897	0.6129	----	0.584	6.17	0.999	1.00	3.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0519	1.0079	0.9599	1.0077	1.0342	0.9580	0.9415	0.9218	0.9012	0.976	6.08	0.998	1.00	5.3	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3723	1.2827	1.2601	1.3507	1.3484	1.2626	1.2381	1.1933	1.0402	1.26	6.08	0.997	1.00	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1745	0.1278	0.1460	0.1634	0.1769	0.1803	0.1800	0.1898	----	0.167	6.21	0.999	1.00	12		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3648	0.3555	0.3358	0.3559	0.3574	0.3687	0.3704	0.3820	----	0.361	6.22	0.999	1.00	3.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6831	0.6494	0.6112	0.6589	0.6875	0.6983	0.6964	0.7128	----	0.675	6.41	1.00	1.00	4.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1689	0.1330	0.1372	0.1589	0.1760	0.1776	0.1793	0.1866	----	0.165	6.47	0.999	1.00	12	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3445	0.3285	0.3069	0.3309	0.3442	0.3390	0.3463	0.3536	0.2709	0.329	6.50	1.00	1.00	7.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1393	----	0.0731	0.1276	0.1958	0.2165	0.2383	0.2489	----	0.177	6.56	0.992	0.998	37		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4210	0.4327	0.3828	0.4044	0.4129	0.4081	0.4120	0.4190	----	0.412	6.57	1.00	1.00	3.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2630	0.2255	0.2325	0.2505	0.2628	0.2644	0.2594	0.2697	0.1912	0.247	6.66	1.00	1.00	10	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2955	0.3182	0.2787	0.2887	0.2937	0.2957	0.2874	0.2920	----	0.294	6.72	1.00	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0004	1.0593	0.9344	0.9775	0.9679	0.9632	0.9431	0.9564	1.0494	0.984	6.78	1.00	1.00	4.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3935	0.3805	0.3573	0.3911	0.3931	0.3900	0.3873	0.3946	0.3498	0.382	6.82	1.00	1.00	4.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1641	0.1681	0.1527	0.1640	0.1636	0.1635	0.1605	0.1646	----	0.163	6.86	1.00	1.00	2.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1006	0.0703	0.0782	0.0946	0.1036	0.1054	0.1068	0.1111	----	0.0963	7.09	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2792	0.2496	0.2441	0.2673	0.2879	0.2893	0.2897	0.2980	----	0.276	7.18	0.999	1.00	7.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6362	0.6553	0.5748	0.6060	0.6107	0.6162	0.6075	0.6119	----	0.615	7.31	1.00	1.00	3.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6129	0.6341	0.5667	0.6039	0.6111	0.5941	0.5950	0.5959	----	0.602	7.39	1.00	1.00	3.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6210	0.6447	0.5707	0.6000	0.6052	0.6056	0.6045	0.6003	----	0.607	7.39	1.00	1.00	3.4		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7721	0.7896	0.7065	0.7497	0.7565	0.7408	0.7220	0.7385	----	0.747	7.68	0.999	1.00	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5759	0.6003	0.5301	0.5778	0.5755	0.5619	0.5684	0.5607	----	0.569	7.44	1.00	1.00	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Avg Rsd: 7.289

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121801 0073

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118919.D	CAL BNA@50PPM	12/20/21 13:28	2	5M118910.D	CAL BNA@2PPM	12/20/21 09:50
3	5M118912.D	CAL BNA@10PPM	12/20/21 10:40	4	5M118917.D	CAL BNA@20PPM	12/20/21 12:41
5	5M118916.D	CAL BNA@80PPM	12/20/21 12:17	6	5M118915.D	CAL BNA@120PPM	12/20/21 11:53
7	5M118914.D	CAL BNA@160PPM	12/20/21 11:29	8	5M118913.D	CAL BNA@196PPM	12/20/21 11:06
9	5M118918.D	CAL BNA@0.5PPM	12/20/21 13:04				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3131	0.1735	0.2316	0.2747	0.3382	0.3509	0.3625	0.3621	----	0.301	7.43	0.999	1.00	23	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Qua	0.3710	0.3054	0.3138	0.3550	0.3820	0.3821	0.3936	0.3878	----	0.361	7.53	1.00	1.00	9.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4042	0.3519	0.3481	0.3943	0.4039	0.4033	0.4133	0.4164	----	0.392	7.56	1.00	1.00	6.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.6064	1.3897	1.4625	1.5909	1.5730	1.6157	1.5928	1.5982	----	1.55	7.60	1.00	1.00	5.3		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2132	1.1924	1.1040	1.1978	1.1741	1.1764	1.1553	1.1312	----	1.17	7.70	0.999	1.00	3.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9874	1.0204	0.9054	0.9728	0.9543	0.9353	0.8888	0.8606	----	0.941	7.98	0.997	1.00	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9874	1.0204	0.9054	0.9728	0.9543	0.9353	0.8888	0.8606	----	0.941	7.98	0.997	1.00	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8221	0.8438	0.7563	0.8113	0.8132	0.8109	0.8031	0.8061	----	0.808	7.77	1.00	1.00	3.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4406	0.3573	0.3647	0.4212	0.4509	0.4580	0.4585	0.4643	----	0.427	7.78	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4778	0.4565	0.4183	0.4592	0.4729	0.4558	0.4399	0.4237	----	0.451	7.97	0.997	1.00	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8504	1.8419	1.6538	1.8228	1.8049	1.8013	1.7919	1.7729	----	1.79	8.06	1.00	1.00	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3045	1.2573	1.1976	1.3035	1.2995	1.3056	1.2800	1.2861	----	1.28	7.93	1.00	1.00	2.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2955	0.2487	0.2477	0.2945	0.2879	0.2858	0.2792	0.2777	----	0.277	7.99	0.999	1.00	6.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1885	1.2300	1.0876	1.1641	1.1568	1.1575	1.1295	1.1463	----	1.16	8.21	1.00	1.00	3.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3402	0.2571	0.2924	0.3268	0.3452	0.3513	0.3497	0.3571	----	0.327	8.14	1.00	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1043	----	0.0556	0.0786	0.1376	0.1592	0.1743	0.1774	----	0.127	8.23	0.987	0.998	38	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6424	1.7255	1.5129	1.6449	1.5990	1.6027	1.5870	1.5655	1.7521	1.63	8.37	1.00	1.00	4.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.3932	0.2654	0.3083	0.3619	0.3965	0.4120	0.4105	0.4119	----	0.370	8.34	1.00	1.00	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2371	0.1874	0.2110	0.2110	0.2528	0.2652	0.2833	0.2704	----	0.240	8.27	0.998	0.998	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3241	0.2354	0.2731	0.3172	0.3246	0.3347	0.3352	0.3410	----	0.311	8.47	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3377	1.3318	1.2182	1.3304	1.3149	1.3272	1.3049	1.2715	----	1.30	8.69	0.999	1.00	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6486	0.6682	0.6073	0.6531	0.6490	0.6485	0.6458	0.6350	----	0.644	8.67	1.00	1.00	2.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2582	1.2079	1.1194	1.2477	1.2528	1.2882	1.2524	1.2684	----	1.24	8.55	1.00	1.00	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3610	0.2574	0.2979	0.3518	0.3682	0.3777	0.3801	0.3876	----	0.348	8.70	1.00	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3584	0.2922	0.2990	0.3358	0.3682	0.3711	0.3739	0.3821	----	0.348	9.32	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0918	----	0.0604	0.0778	0.1086	0.1179	0.1194	0.1282	----	0.101	8.72	0.995	0.999	25	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5990	0.5966	0.5577	0.5902	0.5972	0.6140	0.5856	0.5993	----	0.592	8.79	1.00	1.00	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1279	0.0758	0.1036	0.1196	0.1290	0.1328	0.1290	0.1365	----	0.119	8.92	0.999	0.999	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8558	0.8237	0.7908	0.7529	0.7635	0.8676	0.8350	0.8656	----	0.819	8.82	0.998	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2023	0.1940	0.1802	0.1921	0.2016	0.2083	0.2040	0.2088	----	0.199	9.16	1.00	1.00	4.9	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2233	0.2344	0.2068	0.2187	0.2152	0.2279	0.2144	0.2269	----	0.221	9.22	0.998	0.998	4.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4627	0.4082	0.4054	0.4386	0.4613	0.4689	0.4416	0.4551	----	0.443	9.49	0.999	0.999	5.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1212	----	0.0762	0.0976	0.1361	0.1470	0.1464	0.1564	----	0.126	9.43	0.997	0.999	23	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0300	1.1176	0.9747	1.0227	1.0095	1.0274	0.9732	1.0091	----	1.02	9.66	0.999	1.00	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0549	1.0243	0.9530	1.0074	1.0256	1.0420	1.0096	1.0184	----	1.02	9.72	1.00	1.00	3.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9587	0.9318	0.8747	0.9449	0.9562	0.9893	0.9433	0.9664	----	0.946	9.88	0.999	0.999	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1307	0.9616	0.9629	1.0781	1.1362	1.1712	1.1233	1.1431	0.7476	1.05	10.26	1.00	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1138	1.0478	1.0194	1.0981	1.1357	1.1436	1.0895	1.1399	----	1.10	10.99	0.999	0.999	4.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2262	1.1767	1.1200	1.1884	1.1908	1.2156	1.1991	1.2236	----	1.19	11.25	1.00	1.00	2.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7708	0.5194	0.5997	0.7113	0.7943	0.7983	0.8048	0.8454	----	0.731	11.15	0.998	1.00	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7649	0.6483	0.6658	0.7085	0.7268	0.7669	0.7576	0.8250	----	0.733	11.43	0.996	0.998	7.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.289

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

1121801 0074

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M118919.D	CAL BNA@50PPM	12/20/21 13:28	2	5M118910.D	CAL BNA@2PPM	12/20/21 09:50
3	5M118912.D	CAL BNA@10PPM	12/20/21 10:40	4	5M118917.D	CAL BNA@20PPM	12/20/21 12:41
5	5M118916.D	CAL BNA@80PPM	12/20/21 12:17	6	5M118915.D	CAL BNA@120PPM	12/20/21 11:53
7	5M118914.D	CAL BNA@160PPM	12/20/21 11:29	8	5M118913.D	CAL BNA@196PPM	12/20/21 11:06
9	5M118918.D	CAL BNA@0.5PPM	12/20/21 13:04				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2343	0.2264	0.2166	0.2300	0.2412	0.2518	0.2591	0.2730	-----	0.242	11.37	0.997	1.00	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4400	0.3677	0.3682	0.4157	0.4374	0.4427	0.4448	0.4621	-----	0.422	11.77	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5187	0.3825	0.4131	0.4787	0.5293	0.5479	0.5461	0.5783	-----	0.499	12.02	0.998	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3719	0.2715	0.3073	0.3444	0.3783	0.3936	0.3853	0.4073	-----	0.358	12.13	0.999	0.999	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4650	0.3923	0.3977	0.4466	0.4663	0.4674	0.4747	0.4914	-----	0.450	12.64	0.999	1.00	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2102	1.2389	1.1229	1.1824	1.1857	1.2113	1.2102	1.2369	-----	1.20	12.67	1.00	1.00	3.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0897	1.1756	1.0304	1.1004	1.0715	1.0591	1.0465	1.0590	-----	1.08	12.71	1.00	1.00	4.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7404	0.5653	0.6124	0.6993	0.7438	0.7482	0.7247	0.7397	-----	0.697	12.71	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.0978	0.8073	0.8701	0.9761	1.1218	1.1727	1.1569	1.1788	-----	1.05	13.46	1.00	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.0359	0.9540	0.8992	0.9648	1.0675	1.0344	1.0832	1.1565	-----	1.02	13.88	0.997	0.999	8.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0364	1.0308	0.9666	1.0331	0.9748	1.0431	0.9771	0.9693	-----	1.00	13.91	0.998	0.999	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	0.9888	0.9564	0.8941	0.9443	0.9776	1.0068	1.0184	1.0437	-----	0.979	14.23	0.999	1.00	4.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1213	1.0500	0.9654	1.0342	1.0975	1.1671	1.1501	1.2072	-----	1.10	15.57	0.998	1.00	7.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9963	0.9334	0.8521	0.9360	0.9707	1.0409	1.0066	1.0449	-----	0.973	15.59	0.999	0.999	6.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9724	0.9381	0.8556	0.9108	0.9573	0.9940	0.9857	1.0212	-----	0.954	15.94	0.999	1.00	5.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.289
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118755.D Instrument: GCMS 7

Cont Calibration Date/Time 12/29/2021 10:25:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.75	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.79	54.66	50	**		0.860	0.940	9.32	
Pyridine	1	0		3.26	51.33	50	**		2.053	2.108	2.65	
N-Nitrosodimethylamine	1	0		3.21	53.51	50	**		1.385	1.482	7.03	
2-Fluorophenol	1	0	S	4.75	48.99	50	**		2.350	2.303	2.01	
Benzaldehyde	1	0		5.57	48.13	50	20	0.01	1.771	1.705	3.73	
Aniline	1	0		5.66	49.88	50	**		3.400	3.391	0.25	
Pentachloroethane	1	0		5.70	48.61	50	**	0.05	0.820	0.797	2.78	
bis(2-Chloroethyl)ether	1	0		5.71	50.48	50	20	0.7	2.189	2.210	0.97	
Phenol-d5	1	0	S	5.61	50.47	50	**		2.710	2.736	0.94	
Phenol	1	0		5.62	52.33	50	20	0.8	2.956	3.093	4.65	
2-Chlorophenol	1	0		5.75	51.10	50	20	0.8	2.428	2.482	2.21	
N-Decane	1	0		5.79	51.00	50	**	0.05	1.730	1.765	2.00	
1,3-Dichlorobenzene	1	0		5.88	49.64	50	**		2.684	2.664	0.73	
1,4-Dichlorobenzene-d4	1	0	I	5.94	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.95	51.87	50	20		1.392	1.444	3.74	
1,2-Dichlorobenzene	1	0		6.07	52.04	50	**		1.320	1.374	4.07	
Benzyl alcohol	1	0		6.04	52.36	50	**		0.772	0.808	4.73	
bis(2-chloroisopropyl)ether	1	0		6.15	60.06	50	20	0.01	1.008	1.211	20.13	
2-Methylphenol	1	0		6.13	56.42	50	20	0.7	1.032	1.164	12.83	
Acetophenone	1	0		6.26	50.87	50	20	0.01	1.468	1.493	1.74	
Hexachloroethane	1	0		6.34	50.15	50	20	0.3	0.524	0.526	0.31	
N-Nitroso-di-n-propylamine	1	0		6.26	48.41	50	20	0.5	0.742	0.719	3.17	
3&4-Methylphenol	1	0		6.25	52.65	50	20		1.017	1.071	5.30	
Naphthalene-d8	1	0	I	6.94	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.38	26.61	25	**		0.158	0.168	6.43	
Nitrobenzene	1	0		6.39	51.54	50	20	0.2	0.303	0.313	3.08	
Isophorone	1	0		6.58	52.59	50	20	0.4	0.566	0.596	5.19	
2-Nitrophenol	1	0		6.64	55.97	50	20	0.1	0.171	0.192	11.94	
2,4-Dimethylphenol	1	0		6.66	52.34	50	20	0.2	0.311	0.325	4.68	
Benzoic Acid	1	0		6.75	55.27	50	**		0.243	0.264	10.53	
bis(2-Chloroethoxy)methane	1	0		6.74	54.35	50	20	0.3	0.331	0.359	8.70	
2,4-Dichlorophenol	1	0		6.83	56.83	50	20	0.2	0.253	0.287	13.66	
1,2,4-Trichlorobenzene	1	0		6.89	51.57	50	**		0.300	0.309	3.14	
Naphthalene	1	0		6.96	51.04	50	20	0.7	0.930	0.949	2.07	
4-Chloroaniline	1	0		6.99	53.78	50	20	0.01	0.365	0.392	7.56	
Hexachlorobutadiene	1	0		7.04	48.34	50	20	0.01	0.171	0.166	3.32	
Caprolactam	1	0		7.29	57.01	50	20	0.01	0.098	0.112	14.02	
4-Chloro-3-methylphenol	1	0		7.36	55.14	50	20	0.2	0.255	0.281	10.29	
2-Methylnaphthalene	1	0		7.50	53.42	50	**	0.4	0.602	0.643	6.83	
1-Methylnaphthalene	1	0		7.58	53.26	50	**	0.4	0.586	0.624	6.51	
Methylnaphthalenes	1	0		7.50	106.86	50	**			1.270	113.73	
1,1'-Biphenyl	1	0		7.88	53.58	50	20	0.01	0.740	0.793	7.17	
Acenaphthene-d10	1	0	I	8.40	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.63	53.68	50	20	0.01	0.574	0.616	7.36	
Hexachlorocyclopentadiene	1	0		7.62	51.84	50	20	0.05	0.340	0.353	3.68	
2,4,6-Trichlorophenol	1	0		7.72	53.20	50	20	0.2	0.392	0.417	6.39	
2,4,5-Trichlorophenol	1	0		7.76	52.68	50	20	0.2	0.397	0.419	5.35	
2-Fluorobiphenyl	1	0	S	7.79	26.05	25	**		1.444	1.505	4.18	
2-Chloronaphthalene	1	0		7.90	52.99	50	20	0.8	1.115	1.181	5.98	
1,4-Dimethylnaphthalene	1	0		8.19	52.87	50	**		0.860	0.910	5.75	
Dimethylnaphthalenes	1	0		8.19	52.87	50	20			0.910	5.75	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118755.D Instrument: GCMS 7

Cont Calibration Date/Time 12/29/2021 10:25:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.97	53.79	50	**		0.792	0.853	7.59	
2-Nitroaniline	1	0		7.99	53.85	50	20	0.01	0.343	0.370	7.70	
Coumarin	1	0		8.18	57.41		**		0.410			
Acenaphthylene	1	0		8.27	53.37	50	20	0.9	1.778	1.898	6.74	
Dimethylphthalate	1	0		8.13	51.45	50	20	0.01	1.316	1.354	2.91	
2,6-Dinitrotoluene	1	0		8.19	54.04	50	20	0.2	0.276	0.299	8.08	
Acenaphthene	1	0		8.43	52.17	50	20	0.9	1.126	1.175	4.34	
3-Nitroaniline	1	0		8.35	56.69	50	20	0.01	0.318	0.361	13.39	
2,4-Dinitrophenol	1	0		8.44	58.21	50	20	0.2	0.153	0.184	16.42	
Dibenzofuran	1	0		8.59	52.24	50	20	0.8	1.624	1.697	4.48	
2,4-Dinitrotoluene	1	0		8.56	55.30	50	20	0.2	0.398	0.440	10.60	
4-Nitrophenol	1	0		8.47	55.53	50	20	0.01	0.209	0.247	11.05	
2,3,4,6-Tetrachlorophenol	1	0		8.69	55.02	50	20	0.01	0.350	0.385	10.05	
Fluorene	1	0		8.91	53.21	50	20	0.9	1.276	1.358	6.43	
4-Chlorophenyl-phenylether	1	0		8.90	52.87	50	20	0.4	0.629	0.665	5.74	
Diethylphthalate	1	0		8.78	50.90	50	20	0.01	1.318	1.342	1.80	
4-Nitroaniline	1	0		8.93	55.93	50	20	0.01	0.334	0.374	11.87	
Atrazine	1	0		9.56	53.86	50	20	0.01	0.382	0.412	7.72	
Phenanthrene-d10	1	0	I	9.89	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.95	57.78	50	20	0.01	0.107	0.125	15.56	
n-Nitrosodiphenylamine	1	0		9.02	54.07	50	20	0.01	0.560	0.606	8.13	
2,4,6-Tribromophenol	1	0	S	9.15	56.14	50	**		0.110	0.124	12.28	
1,2-Diphenylhydrazine	1	0		9.06	52.57	50	**		0.633	0.665	5.15	
4-Bromophenyl-phenylether	1	0		9.40	55.52	50	20	0.1	0.200	0.222	11.05	
Hexachlorobenzene	1	0		9.47	54.38	50	20	0.1	0.226	0.245	8.75	
N-Octadecane	1	0		9.73	56.88	50	**	0.05	0.285	0.324	13.76	
Pentachlorophenol	1	0		9.67	52.96	50	20	0.05	0.148	0.157	5.92	
Phenanthrene	1	0		9.91	52.05	50	20	0.7	0.982	1.022	4.10	
Anthracene	1	0		9.97	53.61	50	20	0.7	0.988	1.059	7.22	
Carbazole	1	0		10.14	54.29	50	20	0.01	0.903	0.981	8.58	
Di-n-butylphthalate	1	0		10.52	53.43	50	20	0.01	1.094	1.169	6.87	
Fluoranthene	1	0		11.26	53.66	50	20	0.6	1.087	1.167	7.32	
Chrysene-d12	1	0	I	12.98	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.53	52.03	50	20	0.6	1.208	1.257	4.06	
Benzidine	1	0		11.42	51.35	50	**		0.694	0.767	2.70	
Terphenyl-d14	1	0	S	11.71	25.87	25	**		0.693	0.717	3.48	
4,4'-DDE	1	0		11.64	49.78		**		0.250			
4,4'-DDD	1	0		12.05	53.06		**		0.445			
Butylbenzylphthalate	1	0		12.31	53.06	50	20	0.01	0.529	0.562	6.12	
4,4'-DDT	1	0		12.41	58.54		**		0.360			
3,3'-Dichlorobenzidine	1	0		12.93	57.86	50	20	0.01	0.452	0.523	15.72	
Benzo[a]anthracene	1	0		12.96	50.88	50	20	0.8	1.184	1.204	1.76	
Chrysene	1	0		13.01	50.14	50	20	0.7	1.055	1.058	0.27	
bis(2-Ethylhexyl)phthalate	1	0		13.00	50.98	50	20	0.01	0.697	0.711	1.95	
Perylene-d12	1	0	I	14.65	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.76	53.48	50	20	0.01	1.095	1.172	6.97	
Benzo[b]fluoranthene	1	0		14.20	51.58	50	20	0.7	1.079	1.114	3.16	
Benzo[k]fluoranthene	1	0		14.23	51.29	50	20	0.7	1.028	1.054	2.57	
Benzo[a]pyrene	1	0		14.58	51.91	50	20	0.7	1.025	1.064	3.82	
Indeno[1,2,3-cd]pyrene	1	0		16.08	53.93	50	20	0.5	1.109	1.196	7.85	
Dibenzo[a,h]anthracene	1	0		16.11	54.76	50	20	0.4	0.952	1.043	9.52	
Benzo[g,h,i]perylene	1	0		16.51	53.20	50	20	0.5	0.974	1.037	6.39	

S-Surrogate Compound I-Internal Standard Compound Page 2 of 3

N/O or N/Q - Not applicable for this run CI-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/RF. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M118755.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/29/2021 10:25:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.594	0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.860	0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118772.D Instrument: GCMS 7

Cont Calibration Date/Time 12/30/2021 8:06:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.76	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.80	54.03	50	**		0.860	0.930	8.07	
Pyridine	1	0		3.27	49.93	50	**		2.053	2.050	0.14	
N-Nitrosodimethylamine	1	0		3.22	53.21	50	**		1.385	1.474	6.41	
2-Fluorophenol	1	0	S	4.76	49.08	50	**		2.350	2.307	1.84	
Benzaldehyde	1	0		5.57	48.07	50	20	0.01	1.771	1.703	3.85	
Aniline	1	0		5.66	49.70	50	**		3.400	3.379	0.60	
Pentachloroethane	1	0		5.70	48.28	50	**	0.05	0.820	0.792	3.45	
bis(2-Chloroethyl)ether	1	0		5.72	50.40	50	20	0.7	2.189	2.207	0.81	
Phenol-d5	1	0	S	5.62	50.14	50	**		2.710	2.718	0.28	
Phenol	1	0		5.63	51.60	50	20	0.8	2.956	3.050	3.20	
2-Chlorophenol	1	0		5.76	51.03	50	20	0.8	2.428	2.478	2.05	
N-Decane	1	0		5.79	50.15	50	**	0.05	1.730	1.735	0.29	
1,3-Dichlorobenzene	1	0		5.89	49.08	50	**		2.684	2.634	1.84	
1,4-Dichlorobenzene-d4	1	0	I	5.94	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.95	51.54	50	20		1.392	1.435	3.09	
1,2-Dichlorobenzene	1	0		6.07	52.17	50	**		1.320	1.377	4.35	
Benzyl alcohol	1	0		6.05	54.06	50	**		0.772	0.835	8.13	
bis(2-chloroisopropyl)ether	1	0		6.15	59.27	50	20	0.01	1.008	1.195	18.54	
2-Methylphenol	1	0		6.13	56.50	50	20	0.7	1.032	1.166	13.01	
Acetophenone	1	0		6.27	50.72	50	20	0.01	1.468	1.489	1.45	
Hexachloroethane	1	0		6.35	49.48	50	20	0.3	0.524	0.519	1.05	
N-Nitroso-di-n-propylamine	1	0		6.26	48.33	50	20	0.5	0.742	0.718	3.34	
3&4-Methylphenol	1	0		6.25	52.48	50	20		1.017	1.068	4.96	
Naphthalene-d8	1	0	I	6.94	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.38	26.18	25	**		0.158	0.166	4.71	
Nitrobenzene	1	0		6.40	51.49	50	20	0.2	0.303	0.313	2.98	
Isophorone	1	0		6.58	51.90	50	20	0.4	0.566	0.588	3.81	
2-Nitrophenol	1	0		6.64	56.31	50	20	0.1	0.171	0.193	12.62	
2,4-Dimethylphenol	1	0		6.66	51.05	50	20	0.2	0.311	0.317	2.09	
Benzoic Acid	1	0		6.75	53.74	50	**		0.243	0.256	7.48	
bis(2-Chloroethoxy)methane	1	0		6.74	54.09	50	20	0.3	0.331	0.358	8.18	
2,4-Dichlorophenol	1	0		6.82	55.64	50	20	0.2	0.253	0.281	11.28	
1,2,4-Trichlorobenzene	1	0		6.89	51.52	50	**		0.300	0.309	3.03	
Naphthalene	1	0		6.96	50.57	50	20	0.7	0.930	0.941	1.14	
4-Chloroaniline	1	0		6.99	52.59	50	20	0.01	0.365	0.384	5.18	
Hexachlorobutadiene	1	0		7.04	48.55	50	20	0.01	0.171	0.166	2.89	
Caprolactam	1	0		7.29	56.14	50	20	0.01	0.098	0.110	12.29	
4-Chloro-3-methylphenol	1	0		7.36	53.88	50	20	0.2	0.255	0.275	7.76	
2-Methylnaphthalene	1	0		7.50	53.15	50	**	0.4	0.602	0.640	6.31	
1-Methylnaphthalene	1	0		7.58	52.27	50	**	0.4	0.586	0.613	4.53	
Methylnaphthalenes	1	0		7.50	105.45	50	**			1.253	110.91	
1,1'-Biphenyl	1	0		7.88	52.27	50	20	0.01	0.740	0.773	4.54	
Acenaphthene-d10	1	0	I	8.40	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.63	53.87	50	20	0.01	0.574	0.619	7.74	
Hexachlorocyclopentadiene	1	0		7.62	51.82	50	20	0.05	0.340	0.353	3.64	
2,4,6-Trichlorophenol	1	0		7.72	53.93	50	20	0.2	0.392	0.423	7.86	
2,4,5-Trichlorophenol	1	0		7.76	56.66	50	20	0.2	0.397	0.450	13.31	
2-Fluorobiphenyl	1	0	S	7.79	25.73	25	**		1.444	1.487	2.93	
2-Chloronaphthalene	1	0		7.90	53.10	50	20	0.8	1.115	1.184	6.19	
1,4-Dimethylnaphthalene	1	0		8.19	51.50	50	**		0.860	0.886	2.99	
Dimethylnaphthalenes	1	0		8.19	51.50	50	20			0.886	2.99	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run CI-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 7M118772.D Instrument: GCMS 7

Cont Calibration Date/Time 12/30/2021 8:06:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.96	53.61	50	**		0.792	0.850	7.22	
2-Nitroaniline	1	0		7.99	53.49	50	20	0.01	0.343	0.367	6.98	
Coumarin	1	0		8.18	56.86		**		0.410			
Acenaphthylene	1	0		8.27	52.54	50	20	0.9	1.778	1.868	5.09	
Dimethylphthalate	1	0		8.13	51.19	50	20	0.01	1.316	1.347	2.37	
2,6-Dinitrotoluene	1	0		8.19	53.58	50	20	0.2	0.276	0.296	7.17	
Acenaphthene	1	0		8.43	51.54	50	20	0.9	1.126	1.161	3.09	
3-Nitroaniline	1	0		8.35	55.99	50	20	0.01	0.318	0.357	11.98	
2,4-Dinitrophenol	1	0		8.44	62.03	50	20	0.2	0.153	0.197	24.06	C1
Dibenzofuran	1	0		8.59	51.68	50	20	0.8	1.624	1.679	3.36	
2,4-Dinitrotoluene	1	0		8.56	54.52	50	20	0.2	0.398	0.434	9.05	
4-Nitrophenol	1	0		8.47	53.79	50	20	0.01	0.209	0.239	7.57	
2,3,4,6-Tetrachlorophenol	1	0		8.69	53.77	50	20	0.01	0.350	0.377	7.54	
Fluorene	1	0		8.92	52.32	50	20	0.9	1.276	1.335	4.64	
4-Chlorophenyl-phenylether	1	0		8.90	52.40	50	20	0.4	0.629	0.659	4.80	
Diethylphthalate	1	0		8.77	50.07	50	20	0.01	1.318	1.320	0.14	
4-Nitroaniline	1	0		8.93	54.24	50	20	0.01	0.334	0.363	8.48	
Atrazine	1	0		9.56	52.81	50	20	0.01	0.382	0.404	5.61	
Phenanthrene-d10	1	0	I	9.88	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.95	59.95	50	20	0.01	0.107	0.130	19.90	
n-Nitrosodiphenylamine	1	0		9.01	53.92	50	20	0.01	0.560	0.604	7.84	
2,4,6-Tribromophenol	1	0	S	9.15	57.29	50	**		0.110	0.126	14.59	
1,2-Diphenylhydrazine	1	0		9.06	52.53	50	**		0.633	0.665	5.06	
4-Bromophenyl-phenylether	1	0		9.40	55.99	50	20	0.1	0.200	0.224	11.98	
Hexachlorobenzene	1	0		9.46	55.22	50	20	0.1	0.226	0.249	10.44	
N-Octadecane	1	0		9.73	56.21	50	**	0.05	0.285	0.320	12.42	
Pentachlorophenol	1	0		9.67	53.05	50	20	0.05	0.148	0.157	6.09	
Phenanthrene	1	0		9.91	51.94	50	20	0.7	0.982	1.020	3.87	
Anthracene	1	0		9.97	53.40	50	20	0.7	0.988	1.055	6.80	
Carbazole	1	0		10.14	54.48	50	20	0.01	0.903	0.984	8.97	
Di-n-butylphthalate	1	0		10.52	52.95	50	20	0.01	1.094	1.158	5.89	
Fluoranthene	1	0		11.26	53.08	50	20	0.6	1.087	1.154	6.16	
Chrysene-d12	1	0	I	12.98	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.53	52.20	50	20	0.6	1.208	1.261	4.39	
Benzidine	1	0		11.42	51.25	50	**		0.694	0.766	2.49	
Terphenyl-d14	1	0	S	11.71	26.14	25	**		0.693	0.725	4.54	
4,4'-DDE	1	0		11.64	50.82		**		0.250			
4,4'-DDD	1	0		12.05	53.55		**		0.445			
Butylbenzylphthalate	1	0		12.31	53.25	50	20	0.01	0.529	0.564	6.50	
4,4'-DDT	1	0		12.41	57.86		**		0.360			
3,3'-Dichlorobenzidine	1	0		12.93	58.50	50	20	0.01	0.452	0.528	17.01	
Benzo[a]anthracene	1	0		12.96	50.89	50	20	0.8	1.184	1.205	1.79	
Chrysene	1	0		13.01	51.02	50	20	0.7	1.055	1.077	2.05	
bis(2-Ethylhexyl)phthalate	1	0		13.00	50.70	50	20	0.01	0.697	0.707	1.40	
Perylene-d12	1	0	I	14.64	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.76	52.80	50	20	0.01	1.095	1.157	5.61	
Benzo[b]fluoranthene	1	0		14.20	50.37	50	20	0.7	1.079	1.087	0.74	
Benzo[k]fluoranthene	1	0		14.23	49.54	50	20	0.7	1.028	1.018	0.92	
Benzo[a]pyrene	1	0		14.58	51.76	50	20	0.7	1.025	1.061	3.52	
Indeno[1,2,3-cd]pyrene	1	0		16.08	54.21	50	20	0.5	1.109	1.202	8.43	
Dibenzo[a,h]anthracene	1	0		16.11	54.70	50	20	0.4	0.952	1.042	9.40	
Benzo[g,h,i]perylene	1	0		16.50	52.90	50	20	0.5	0.974	1.031	5.81	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M118772.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/30/2021 8:06:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.594	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.860	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 5M119024.D Instrument: GCMS 5

Cont Calibration Date/Time 12/30/2021 10:37:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.53	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.56	52.19	50	**		0.898	0.938	4.38	
Pyridine	1	0		3.00	50.45	50	**		2.190	2.210	0.90	
N-Nitrosodimethylamine	1	0		2.95	51.80	50	**		1.468	1.521	3.61	
2-Fluorophenol	1	0	S	4.55	52.23	50	**		1.574	1.644	4.46	
Benzaldehyde	1	0		5.38	50.04	50	20	0.01	1.202	1.203	0.09	
Aniline	1	0		5.47	51.99	50	**		2.225	2.314	3.99	
Pentachloroethane	1	0		5.51	50.65	50	**	0.05	0.488	0.495	1.29	
bis(2-Chloroethyl)ether	1	0		5.53	51.71	50	20	0.7	1.522	1.574	3.42	
Phenol-d5	1	0	S	5.44	52.66	50	**		2.020	2.128	5.31	
Phenol	1	0		5.45	52.21	50	20	0.8	2.032	2.122	4.42	
2-Chlorophenol	1	0		5.58	51.18	50	20	0.8	1.389	1.422	2.37	
N-Decane	1	0		5.61	51.59	50	**	0.05	1.512	1.560	3.19	
1,3-Dichlorobenzene	1	0		5.70	50.48	50	**		1.480	1.494	0.96	
1,4-Dichlorobenzene-d4	1	0	I	5.75	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.77	50.44	50	20		1.480	1.493	0.87	
1,2-Dichlorobenzene	1	0		5.89	50.38	50	**		1.389	1.399	0.77	
Benzyl alcohol	1	0		5.87	49.26	50	**		0.923	0.909	1.48	
bis(2-chloroisopropyl)ether	1	0		5.98	51.55	50	20	0.01	1.720	1.773	3.10	
2-Methylphenol	1	0		5.96	52.51	50	20	0.7	1.287	1.352	5.01	
Acetophenone	1	0		6.08	52.73	50	20	0.01	1.749	1.845	5.46	
Hexachloroethane	1	0		6.16	49.79	50	20	0.3	0.584	0.581	0.42	
N-Nitroso-di-n-propylamine	1	0		6.08	54.26	50	20	0.5	0.976	1.059	8.53	
3&4-Methylphenol	1	0		6.08	53.40	50	20		1.261	1.347	6.80	
Naphthalene-d8	1	0	I	6.76	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.21	25.93	25	**		0.167	0.174	3.72	
Nitrobenzene	1	0		6.22	53.39	50	20	0.2	0.361	0.386	6.78	
Isophorone	1	0		6.40	51.58	50	20	0.4	0.675	0.696	3.16	
2-Nitrophenol	1	0		6.47	51.27	50	20	0.1	0.165	0.169	2.55	
2,4-Dimethylphenol	1	0		6.50	53.20	50	20	0.2	0.329	0.351	6.40	
Benzoic Acid	1	0		6.56	37.38	50	**		0.177	0.124	25.23	
bis(2-Chloroethoxy)methane	1	0		6.57	51.60	50	20	0.3	0.412	0.425	3.19	
2,4-Dichlorophenol	1	0		6.66	53.60	50	20	0.2	0.247	0.264	7.19	
1,2,4-Trichlorobenzene	1	0		6.71	50.98	50	**		0.294	0.300	1.95	
Naphthalene	1	0		6.78	48.76	50	20	0.7	0.984	0.959	2.49	
4-Chloroaniline	1	0		6.82	52.50	50	20	0.01	0.382	0.401	5.01	
Hexachlorobutadiene	1	0		6.86	50.83	50	20	0.01	0.163	0.165	1.66	
Caprolactam	1	0		7.09	48.92	50	20	0.01	0.096	0.098	2.16	
4-Chloro-3-methylphenol	1	0		7.18	52.24	50	20	0.2	0.276	0.288	4.47	
2-Methylnaphthalene	1	0		7.31	51.66	50	**	0.4	0.615	0.635	3.33	
1-Methylnaphthalene	1	0		7.39	51.29	50	**	0.4	0.602	0.617	2.58	
Methylnaphthalenes	1	0		7.31	102.32	50	**			1.241	104.64	
1,1'-Biphenyl	1	0		7.68	51.19	50	20	0.01	0.747	0.765	2.38	
Acenaphthene-d10	1	0	I	8.18	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.44	50.69	50	20	0.01	0.569	0.577	1.37	
Hexachlorocyclopentadiene	1	0		7.42	48.93	50	20	0.05	0.301	0.322	2.14	
2,4,6-Trichlorophenol	1	0		7.53	49.68	50	20	0.2	0.361	0.375	0.63	
2,4,5-Trichlorophenol	1	0		7.56	50.77	50	20	0.2	0.392	0.398	1.53	
2-Fluorobiphenyl	1	0	S	7.60	26.05	25	**		1.554	1.619	4.21	
2-Chloronaphthalene	1	0		7.70	51.99	50	20	0.8	1.168	1.214	3.97	
1,4-Dimethylnaphthalene	1	0		7.98	52.30	50	**		0.941	0.984	4.59	
Dimethylnaphthalenes	1	0		7.98	52.30	50	20			0.984	4.59	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 5M119024.D Instrument: GCMS 5

Cont Calibration Date/Time 12/30/2021 10:37:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.76	51.64	50	**		0.808	0.835	3.28	
2-Nitroaniline	1	0		7.78	53.11	50	20	0.01	0.427	0.454	6.21	
Coumarin	1	0		7.96	53.12		**		0.451			
Acenaphthylene	1	0		8.06	51.01	50	20	0.9	1.793	1.829	2.02	
Dimethylphthalate	1	0		7.93	52.27	50	20	0.01	1.279	1.337	4.53	
2,6-Dinitrotoluene	1	0		7.98	53.71	50	20	0.2	0.277	0.298	7.41	
Acenaphthene	1	0		8.21	51.28	50	20	0.9	1.158	1.187	2.56	
3-Nitroaniline	1	0		8.13	53.02	50	20	0.01	0.328	0.347	6.04	
2,4-Dinitrophenol	1	0		8.23	55.93	50	20	0.2	0.127	0.131	11.86	
Dibenzofuran	1	0		8.36	51.09	50	20	0.8	1.626	1.661	2.18	
2,4-Dinitrotoluene	1	0		8.34	49.52	50	20	0.2	0.370	0.393	0.96	
4-Nitrophenol	1	0		8.27	48.04	50	20	0.01	0.240	0.242	3.93	
2,3,4,6-Tetrachlorophenol	1	0		8.47	53.66	50	20	0.01	0.311	0.333	7.32	
Fluorene	1	0		8.68	51.72	50	20	0.9	1.305	1.349	3.43	
4-Chlorophenyl-phenylether	1	0		8.67	50.48	50	20	0.4	0.644	0.651	0.96	
Diethylphthalate	1	0		8.55	51.28	50	20	0.01	1.237	1.269	2.56	
4-Nitroaniline	1	0		8.70	53.59	50	20	0.01	0.348	0.373	7.19	
Atrazine	1	0		9.31	53.47	50	20	0.01	0.348	0.372	6.95	
Phenanthrene-d10	1	0	I	9.63	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.72	54.94	50	20	0.01	0.101	0.106	9.88	
n-Nitrosodiphenylamine	1	0		8.78	50.87	50	20	0.01	0.592	0.603	1.73	
2,4,6-Tribromophenol	1	0	S	8.92	50.83	50	**		0.119	0.128	1.65	
1,2-Diphenylhydrazine	1	0		8.82	53.79	50	**		0.819	0.882	7.58	
4-Bromophenyl-phenylether	1	0		9.16	50.44	50	20	0.1	0.199	0.201	0.88	
Hexachlorobenzene	1	0		9.22	50.84	50	20	0.1	0.221	0.225	1.67	
N-Octadecane	1	0		9.49	55.02	50	**	0.05	0.443	0.487	10.05	
Pentachlorophenol	1	0		9.42	49.51	50	20	0.05	0.126	0.127	0.97	
Phenanthrene	1	0		9.66	50.67	50	20	0.7	1.021	1.034	1.33	
Anthracene	1	0		9.71	51.51	50	20	0.7	1.017	1.048	3.02	
Carbazole	1	0		9.88	51.67	50	20	0.01	0.946	0.977	3.35	
Di-n-butylphthalate	1	0		10.26	49.06	50	20	0.01	1.051	1.121	1.88	
Fluoranthene	1	0		10.98	51.14	50	20	0.6	1.099	1.124	2.28	
Chrysene-d12	1	0	I	12.68	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.25	52.50	50	20	0.6	1.193	1.252	5.00	
Benzidine	1	0		11.14	48.91	50	**		0.731	0.731	2.18	
Terphenyl-d14	1	0	S	11.43	26.93	25	**		0.733	0.789	7.71	
4,4'-DDE	1	0		11.37	51.71		**		0.242			
4,4'-DDD	1	0		11.76	52.31		**		0.422			
Butylbenzylphthalate	1	0		12.02	51.66	50	20	0.01	0.499	0.529	3.33	
4,4'-DDT	1	0		12.12	58.05		**		0.358			
3,3'-Dichlorobenzidine	1	0		12.64	52.48	50	20	0.01	0.450	0.476	4.96	
Benzo[a]anthracene	1	0		12.67	51.80	50	20	0.8	1.200	1.243	3.60	
Chrysene	1	0		12.71	53.52	50	20	0.7	1.079	1.155	7.03	
bis(2-Ethylhexyl)phthalate	1	0		12.71	51.82	50	20	0.01	0.697	0.766	3.64	
Perylene-d12	1	0	I	14.28	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.46	47.80	50	20	0.01	1.048	1.064	4.40	
Benzo[b]fluoranthene	1	0		13.88	49.90	50	20	0.7	1.025	1.022	0.20	
Benzo[k]fluoranthene	1	0		13.91	51.39	50	20	0.7	1.004	1.032	2.79	
Benzo[a]pyrene	1	0		14.23	51.80	50	20	0.7	0.979	1.014	3.60	
Indeno[1,2,3-cd]pyrene	1	0		15.57	51.94	50	20	0.5	1.099	1.142	3.88	
Dibenzo[a,h]anthracene	1	0		15.59	52.29	50	20	0.4	0.973	1.017	4.57	
Benzo[g,h,i]perylene	1	0		15.94	52.05	50	20	0.5	0.954	0.994	4.11	

S-Surrogate Compound I-Internal Standard Compound Page 2 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M119024.D **Instrument:** GCMS 5

Cont Calibration Date/Time 12/30/2021 10:37:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.607	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.941	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/RF. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M118602.D Method: EPA 8270E

Analysis Date/Time: 12/20/21 13:10

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	34838	2.76	68031	5.94	260912	6.94	134771	8.40	269855	9.88	253227	12.98	280515	14.66
Eval File Area Limit:	17419-69676		34016-136062		130456-521824		67386-269542		134928-539710		126614-506454		140258-561030	
Eval File Rt Limit:	2.26-3.26		5.44-6.44		6.44-7.44		7.9-8.9		9.38-10.38		12.48-13.48		14.16-15.16	

Data File	Sample#													
7M118593.D	CAL BNA@2PPM	35233	2.76	67155	5.94	257559	6.95	135828	8.40	268410	9.89	250500	12.97	275027	14.64
7M118594.D	BNA@10PPM	37757	2.76	72619	5.94	284437	6.94	150779	8.39	298511	9.88	283947	12.97	315737	14.64
7M118595.D	CAL BNA@196PPM	32007	2.76	58849	5.94	227739	6.95	116144	8.40	239007	9.89	212036	12.99	236262	14.65
7M118596.D	CAL BNA@20PPM	27470	2.76	55222	5.94	215050	6.95	111697	8.40	220018	9.89	207047	12.97	232722	14.65
7M118597.D	CAL BNA@10PPM	32386	2.76	64172	5.94	250846	6.95	132709	8.40	262733	9.89	247048	12.97	270114	14.64
7M118598.D	CAL BNA@160PPM	35996	2.76	66950	5.94	259240	6.95	133754	8.40	271793	9.89	248100	12.99	278387	14.65
7M118599.D	CAL BNA@120PPM	43698	2.76	84561	5.94	325292	6.95	167472	8.40	342325	9.89	313315	12.99	349463	14.65
7M118600.D	CAL BNA@80PPM	33653	2.75	68542	5.94	265995	6.94	136662	8.40	276631	9.88	257540	12.97	287825	14.64
7M118601.D	CAL BNA@0.5PPM	34256	2.76	68297	5.94	267099	6.94	143587	8.39	285413	9.88	273792	12.97	300037	14.65
7M118602.D	CAL BNA@50PPM	34838	2.76	68031	5.94	260912	6.94	134771	8.40	269855	9.88	253227	12.98	280515	14.66
7M118603.D	ICV BNA@50PPM	32732	2.76	66127	5.94	253336	6.96	130860	8.42	262971	9.91	246959	12.98	269681	14.67

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M118919.D Method: EPA 8270E

Analysis Date/Time: 12/20/21 13:28

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	78043	2.53	78687	5.75	314334	6.76	153502	8.18	289888	9.63	273084	12.68	307553	14.29
Eval File Area Limit:	39022-156086		39344-157374		157167-628668		76751-307004		144944-579776		136542-546168		153776-615106	
Eval File Rt Limit:	2.03-3.03		5.25-6.25		6.26-7.26		7.68-8.68		9.13-10.13		12.18-13.18		13.79-14.79	

Data File	Sample#													
5M118909.D	BNA@10PPM	82575	2.52	84789	5.75	342708	6.76	166875	8.18	311878	9.64	302558	12.68	333739	14.29
5M118910.D	CAL BNA@2PPM	85413	2.52	89373	5.75	359181	6.76	180982	8.18	338132	9.63	314966	12.68	363711	14.29
5M118911.D	BNA@20PPM	80365	2.52	82263	5.76	337438	6.76	164474	8.18	307003	9.63	298233	12.68	336272	14.29
5M118912.D	CAL BNA@10PPM	80953	2.52	82437	5.75	337466	6.76	168220	8.18	311593	9.63	296735	12.68	334942	14.29
5M118913.D	CAL BNA@196PPM	78247	2.52	75763	5.76	302838	6.77	153377	8.18	288286	9.64	267828	12.69	306774	14.29
5M118914.D	CAL BNA@160PPM	78360	2.53	78370	5.76	314028	6.77	153307	8.18	299605	9.64	278515	12.69	316441	14.29
5M118915.D	CAL BNA@120PPM	78782	2.52	79159	5.76	311053	6.77	152430	8.18	288132	9.64	277463	12.69	312388	14.29
5M118916.D	CAL BNA@80PPM	78875	2.52	80262	5.76	320054	6.76	156270	8.18	297396	9.64	286077	12.68	323199	14.29
5M118917.D	CAL BNA@20PPM	84996	2.52	88483	5.75	349561	6.76	170325	8.18	326294	9.64	310977	12.68	345822	14.29
5M118918.D	CAL BNA@0.5PPM	82603	2.52	88593	5.75	365219	6.76	180894	8.18	346564	9.63	319014	12.68	365031	14.29
5M118919.D	CAL BNA@50PPM	78043	2.53	78687	5.75	314334	6.76	153502	8.18	289888	9.63	273084	12.68	307553	14.29
5M118920.D	ICV BNA@50PPM	74721	2.52	76419	5.76	307024	6.76	152536	8.18	284001	9.64	273799	12.68	303062	14.29
5M118921.D	AD27878-014	76942	2.53	81414	5.75	327607	6.76	159052	8.18	290885	9.64	266631	12.68	281659	14.29
5M118922.D	AD27878-015	86020	2.52	92800	5.75	368362	6.76	177470	8.18	328955	9.63	300120	12.68	312215	14.29
5M118923.D	AD27866-017(10X)	83809	2.52	87956	5.75	357240	6.76	180760	8.18	340902	9.63	315943	12.68	345127	14.29

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M118755.D Method: EPA 8270E

Analysis Date/Time: 12/29/21 10:25

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	48813	2.75	89605	5.94	346161	6.94	177764	8.40	355968	9.89	338260	12.98	386223	14.65
Eval File Area Limit:	24406-97626		44802-179210		173080-692322		88882-355528		177984-711936		169130-676520		193112-772446	
Eval File Rt Limit:	2.25-3.25		5.44-6.44		6.44-7.44		7.9-8.9		9.39-10.39		12.48-13.48		14.15-15.15	

Data File	Sample#													
7M118756.D	OMB96021	42338	2.75	77988	5.93	299430	6.95	162134	8.40	330444	9.89	303327	12.98	334469	14.65
7M118757.D	AD28013-001(5X)	45281	2.75	84005	5.93	311700	6.94	138643	8.40	214239	9.90	277395	12.98	351356	14.65
7M118758.D	AD28013-001(5X)(MS)	47085	2.75	89127	5.94	328700	6.94	149533	8.39	232918	9.89	286645	12.98	364415	14.64
7M118759.D	AD28013-001(5X)(MS	48323	2.75	91414	5.94	332669	6.94	150329	8.40	226436	9.89	289685	12.98	367479	14.64
7M118760.D	AD27444-001(5X)(R)	42273	2.75	78529	5.94	296524	6.95	94632	8.42	112669A	9.93	200197	13.00	268460	14.66
7M118761.D	AD27910-018(20X)	45821	2.76	92587	5.94	349698	6.94	152519	8.39	190686	9.90	275227	12.98	346583	14.64
7M118762.D	AD28036-009	37223	2.73	76329	5.93	292627	6.94	152546	8.39	290781	9.88	263310	12.97	279848	14.64
7M118763.D	AD28088-001	39438	2.73	75468	5.93	287780	6.93	144512	8.39	275209	9.88	244893	12.97	262790	14.64
7M118764.D	SMB96024(MS)	40891	2.73	66662	5.93	257146	6.94	130327	8.40	251280	9.88	230715	12.98	248787	14.64
7M118765.D	SMB96024	35694	2.73	65919	5.93	256748	6.94	132228	8.39	251456	9.88	225779	12.97	240907	14.63
7M118766.D	AD27919-010(R)	27634	2.75	42515A	5.93	195221	6.94	130391	8.39	263231	9.88	219010	12.97	224126	14.64
7M118767.D	AD28036-002(R)	34345	2.73	68575	5.93	264614	6.94	132901	8.39	252152	9.88	224199	12.97	238198	14.64
7M118768.D	AD27444-001(10X)(R)	44201	2.76	86059	5.94	329154	6.94	130224	8.40	163670A	9.90	250083	12.99	316681	14.64
7M118769.D	96021	42092	2.75	80566	5.94	321706	6.93	165949	8.39	320755	9.88	291758	12.97	308157	14.64
7M118770.D	SMB96012	37273	2.73	74968	5.93	296287	6.94	151228	8.39	292445	9.88	262612	12.97	274638	14.64

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M118772.D Method: EPA 8270E

Analysis Date/Time: 12/30/21 08:06

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	52599	2.76	95878	5.94	371698	6.94	189172	8.40	372129	9.88	350107	12.98	401102	14.64
Eval File Area Limit:	26300-105198		47939-191756		185849-743396		94586-378344		186064-744258		175054-700214		200551-802204	
Eval File Rt Limit:	2.26-3.26		5.44-6.44		6.44-7.44		7.9-8.9		9.38-10.38		12.48-13.48		14.14-15.14	

Data File	Sample#													
7M118773.D	AD28000-001	34929	2.73	68394	5.94	259229	6.94	130713	8.39	254873	9.88	227929	12.97	245451	14.64
7M118774.D	AD28068-004	39426	2.75	74799	5.94	286383	6.95	142967	8.40	270671	9.89	229880	12.98	243181	14.65
7M118775.D	AD27919-010(R)	21936A	2.75	7010A	5.93	37347A	6.94	18629A	8.39	37949A	9.88	23883A	12.97	24287A	14.63
7M118776.D	AD28068-005	38529	2.74	75394	5.94	284116	6.94	143016	8.39	268709	9.88	227650	12.97	239157	14.65
7M118777.D	AD27969-005	34642	2.74	68498	5.94	262258	6.95	125603	8.40	145732A	9.90	155990A	12.99	191300A	14.67
7M118778.D	AD28052-005	35026	2.75	70241	5.94	252382	6.94	105788	8.40	201093	9.89	119124A	13.00	141839A	14.73
7M118779.D	AD28052-001(5X)	42973	2.77	88443	5.94	328360	6.95	142200	8.40	198066	9.90	127941A	13.02	172729A	14.72
7M118780.D	AD28052-006(5X)	41822	2.77	88019	5.94	331526	6.95	149176	8.40	227785	9.90	137448A	13.01	178636A	14.71
7M118781.D	AD28052-003	32334	2.74	69970	5.94	265036	6.94	105476	8.40	133789A	9.91	90318A	13.04	138246A	14.73
7M118782.D	AD28052-004	33955	2.75	75878	5.94	285833	6.95	131433	8.40	177706A	9.90	99975A	13.02	138087A	14.71
7M118783.D	AD27969-006(3X)	31598	2.75	71780	5.94	280462	6.95	143003	8.40	207620	9.90	191855	12.99	203412	14.68
7M118784.D	AD28052-002(5X)	42190	2.76	90310	5.94	344170	6.95	165244	8.41	247349	9.90	183748	13.02	222345	14.73
7M118785.D	AD28052-007(5X)	38105	2.76	82027	5.94	313548	6.95	132501	8.40	183888A	9.91	166818A	13.00	207672	14.70

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 5M119024.D Method: EPA 8270E

Analysis Date/Time: 12/30/21 10:37

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	84281	2.53	85806	5.75	343458	6.76	167749	8.18	319235	9.63	294738	12.68	335372	14.28
Eval File Area Limit:	42140-168562		42903-171612		171729-686916		83874-335498		159618-638470		147369-589476		167686-670744	
Eval File Rt Limit:	2.03-3.03		5.25-6.25		6.26-7.26		7.68-8.68		9.13-10.13		12.18-13.18		13.78-14.78	

Data File	Sample#													
5M119025.D	AD28068-001	67932	2.50	69242	5.75	282464	6.76	140500	8.18	262569	9.63	239767	12.68	267512	14.28
5M119026.D	AD28068-001(MS)	79106	2.50	69462	5.75	276579	6.76	135303	8.18	254171	9.63	245202	12.68	264149	14.28
5M119027.D	AD28068-001(MSD)	76458	2.50	70428	5.75	282748	6.76	139330	8.18	261398	9.63	250480	12.68	269121	14.28
5M119031.D	SMB96034(MS)	94229	2.50	80628	5.75	320826	6.76	161990	8.18	295161	9.63	288316	12.68	317312	14.28
5M119032.D	AD28068-002	69522	2.50	71315	5.75	285361	6.76	140470	8.18	272339	9.63	243369	12.68	268863	14.28
5M119033.D	AD28068-003	71436	2.50	72087	5.75	296612	6.76	143699	8.18	270022	9.63	248189	12.68	270353	14.28
5M119034.D	WMB96033	72153	2.53	74357	5.75	301477	6.76	147194	8.18	270562	9.63	252842	12.68	281304	14.28
5M119035.D	SMB96034	82633	2.50	78048	5.75	321821	6.76	157890	8.18	290023	9.63	266219	12.68	296655	14.28

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28000-001
Client Id: SB-015SS
Data File: 7G56283.D
Analysis Date: 12/30/21 10:07
Date Rec/Extracted: 12/18/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**71**	**78**				

Worksheet #: 623593 *Total Target Concentration* 78 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56283.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:07
Operator : ABM/AH
Sample : AD28000-001
Misc : S,TPH
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:27:10 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

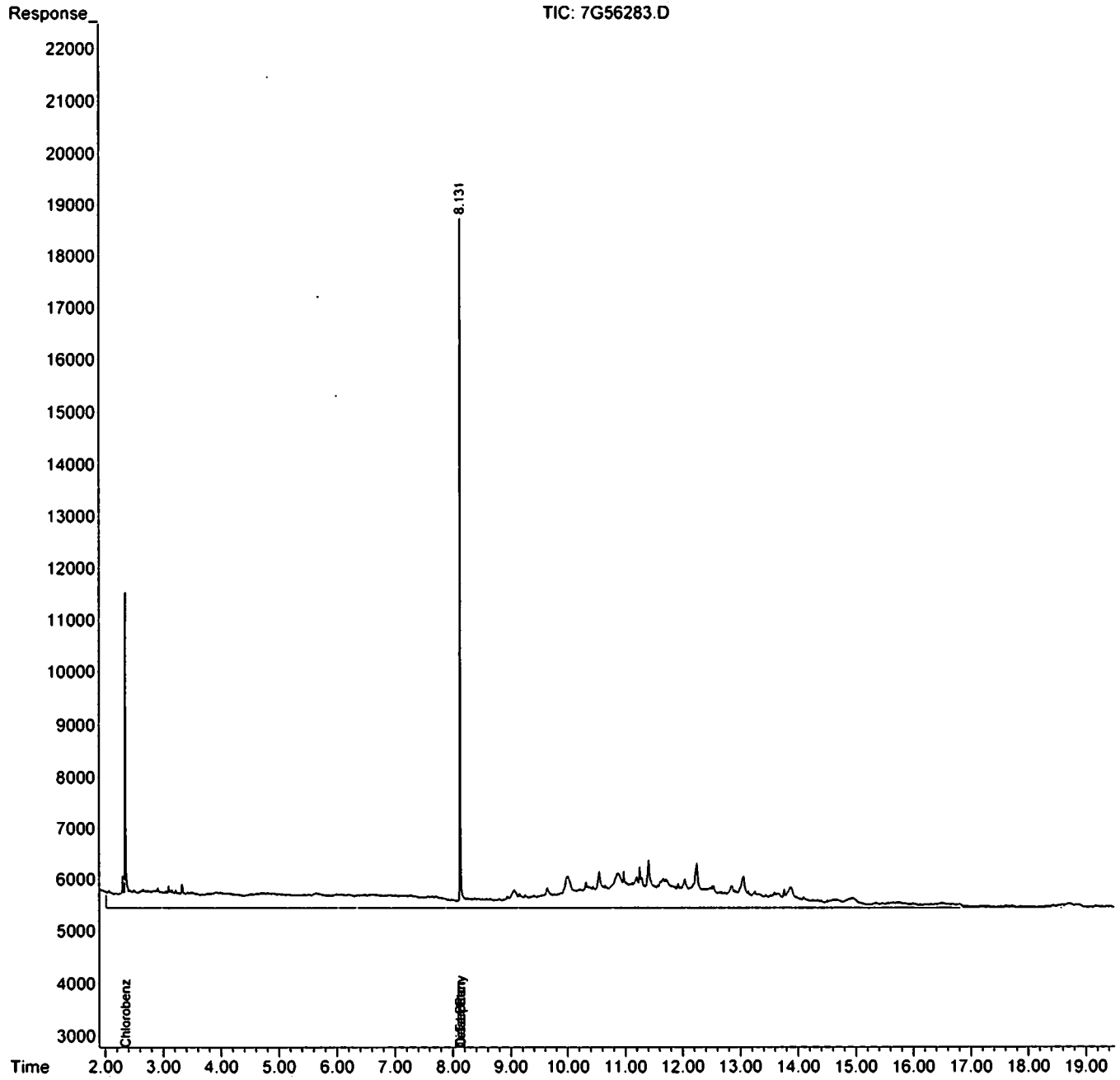
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.349	42212	12.613		
23)	O-Terphenyl	8.132	95201	15.505		
24)d	Diesel Range Organics(T	8.131f	1471626	275.917		m
25)t	Total Petroleum Hydroca	8.131f	2516953	482.772		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56283.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:07
Operator : ABM/AH
Sample : AD28000-001
Misc : S,TPH
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:27:10 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB96022
Client Id:
Data File: 7G56284.D
Analysis Date: 12/30/21 10:37
Date Rec/Extracted: NA-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 623593

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

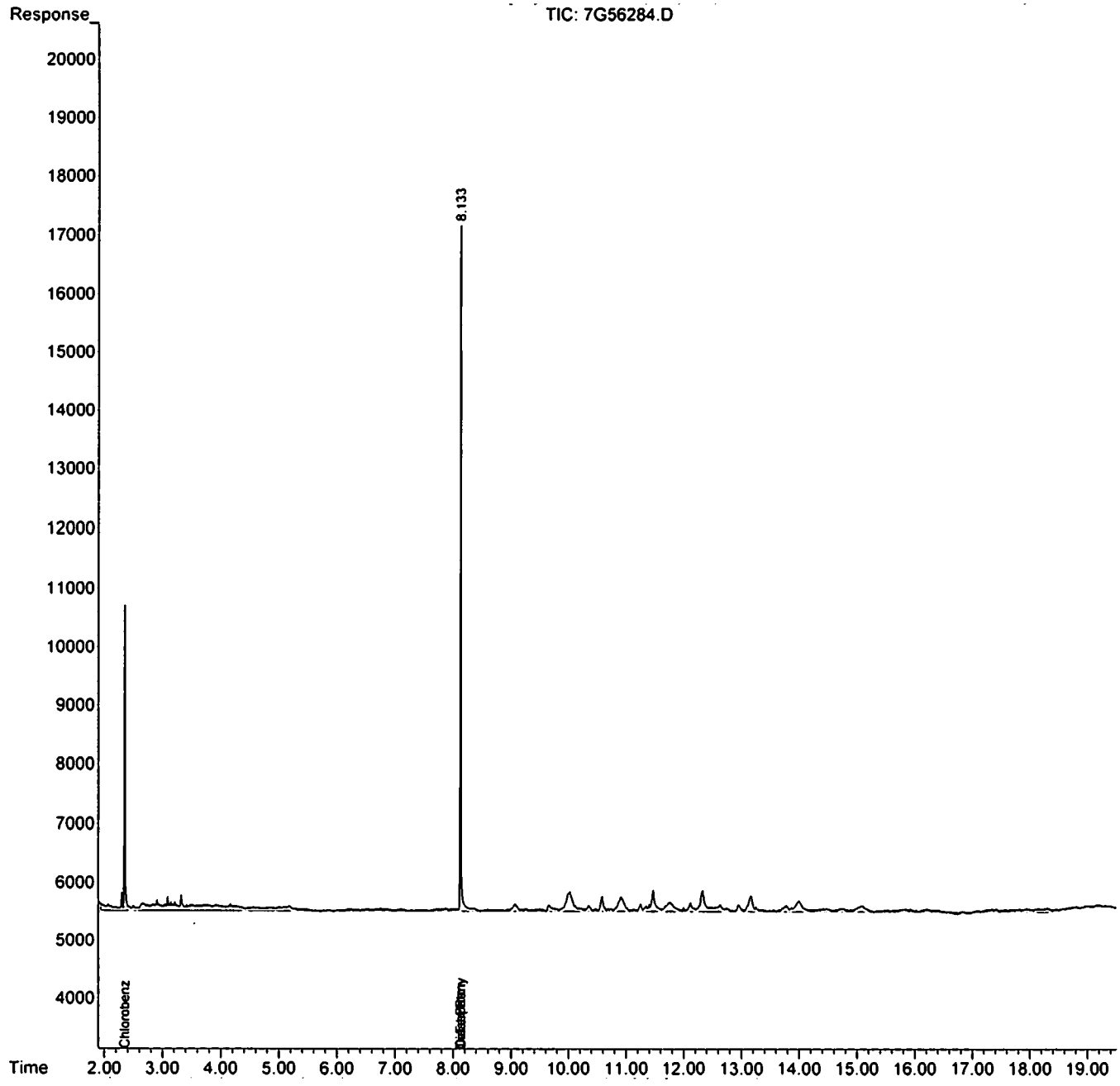
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.350	37775	11.288		
23)	O-Terphenyl	8.133	93677	15.257		
24)d	Diesel Range Organics(T	8.133f	312492	58.590		m
25)t	Total Petroleum Hydroca	8.133f	592515	113.649		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

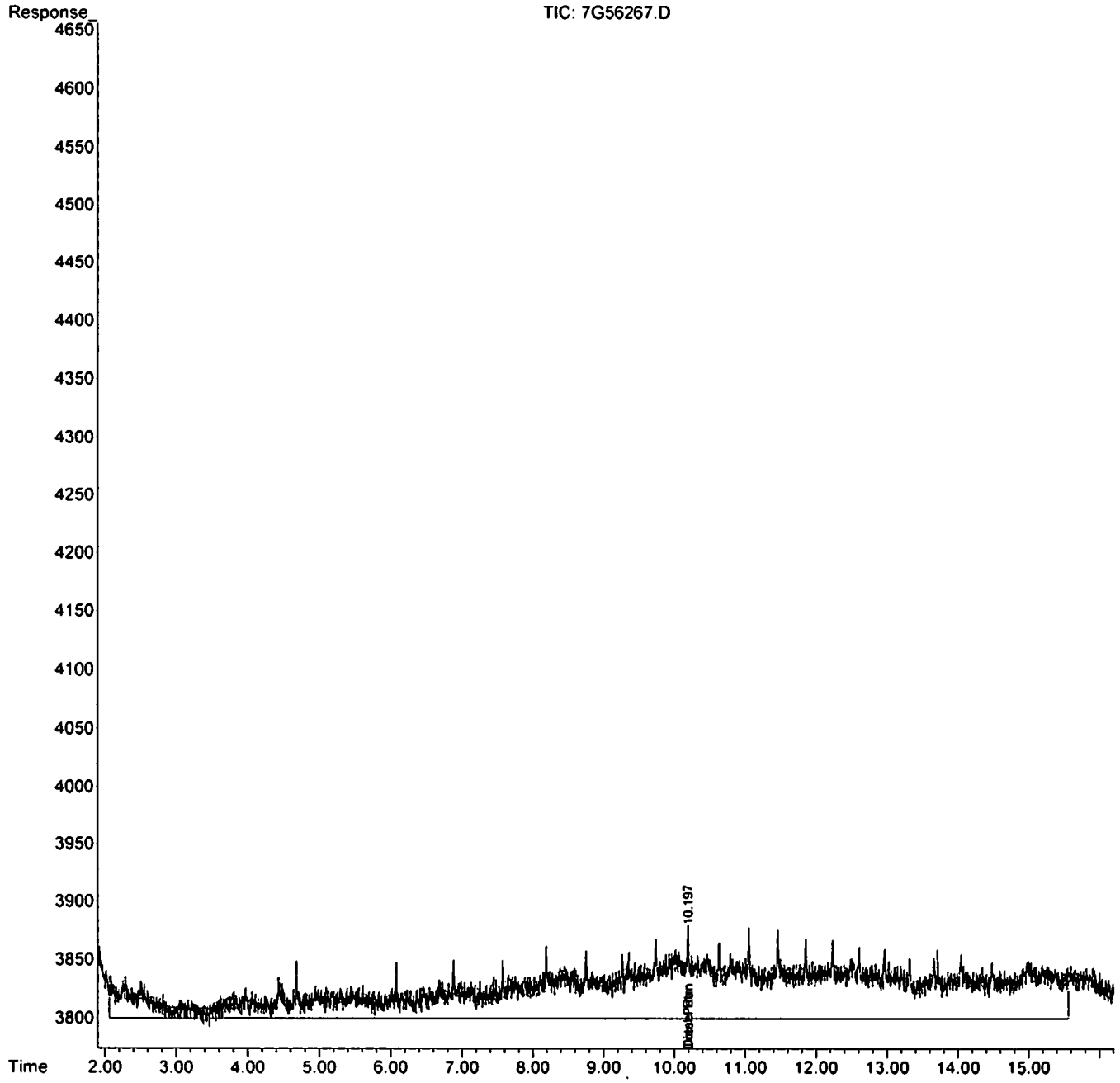
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)	Chlorobenzene	0.000	0	N.D.		
22)	O-Terphenyl	0.000	0	N.D.		
23)d	Diesel Range Organics(T	10.197f	124364	21.689		m
24)t	Total Petroleum Hydroca	10.197f	220862	39.012		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

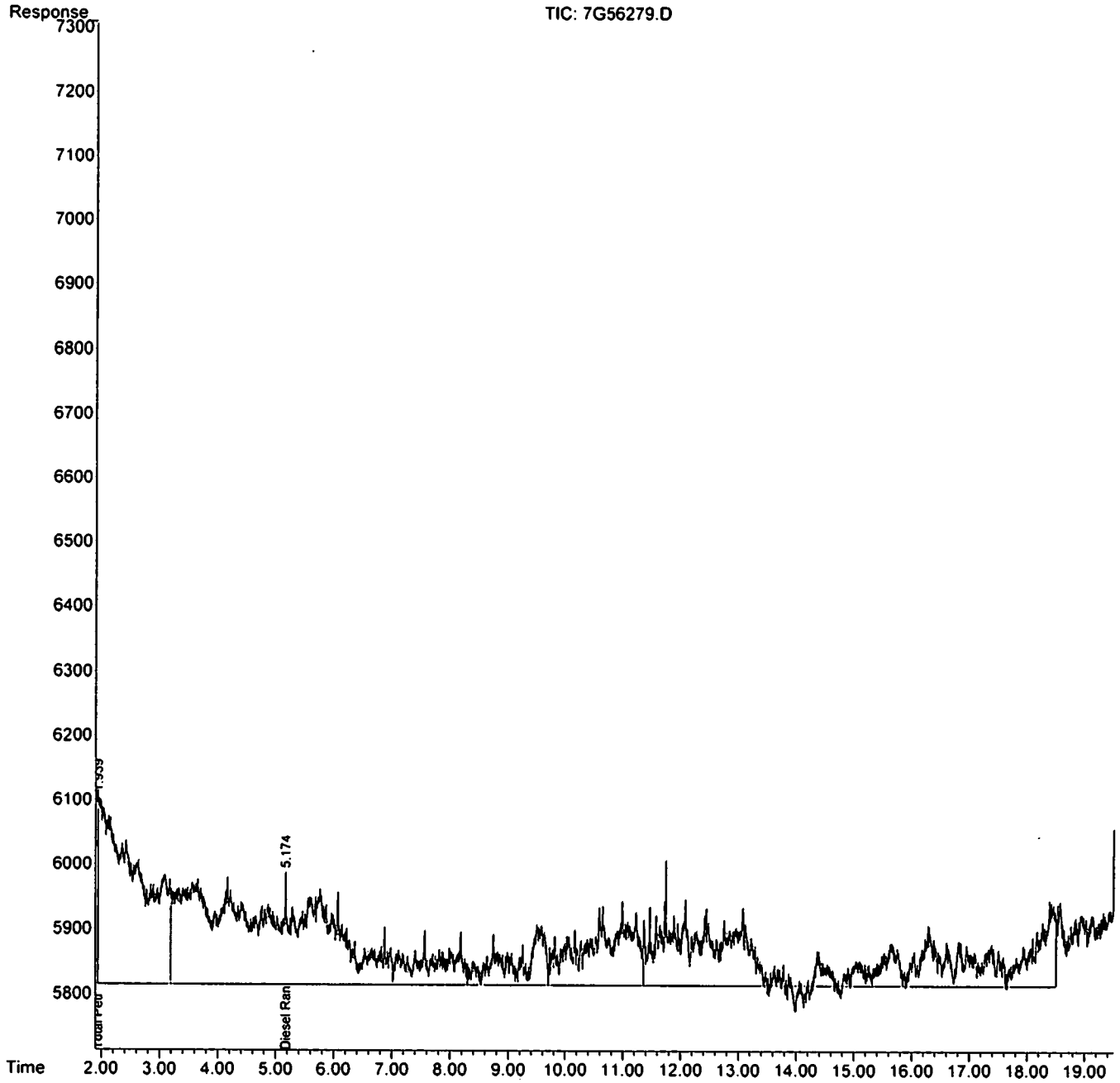
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.174	335766	62.953		m
25)t	Total Petroleum Hydroca	1.939	651446	124.953		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56284.D	SMB96022	S	12/30/21 10:37	1		56	76				
7G56283.D	AD28000-001	S	12/30/21 10:07	1		63	78				
7G56269.D	SMB96022(MS)	S	12/29/21 11:42	1		48	78				
7G56272.D	AD27961-003(MS)	S	12/29/21 13:00	1		55	75				
7G56273.D	AD27961-003(MSD)	S	12/29/21 13:26	1		43	74				
7G56282.D	AD27961-003	S	12/30/21 09:37	1		57	68				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56269.D	SMB96022(MS)	12/29/2021 11:42:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1871.97	0	3000	62	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2056.08	0	3000	69	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1683.27	0	3000	56	40	130

*- Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Duplicate(If applicable):	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	1683.27	2056.08	20	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline -.Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB96022
Blank Data File: 7G56284.D
Matrix: Soil

Blank Analysis Date: 12/30/21 10:37
Blank Extraction Date: 12/28/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD28000-001	7G56283.D	12/30/21 10:07
AD27961-003	7G56282.D	12/30/21 09:37
AD27961-003(MSD	7G56273.D	12/29/21 13:26
AD27961-003(MS)	7G56272.D	12/29/21 13:00
SMB96022(MS)	7G56269.D	12/29/21 11:42

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56265.D	INST BLK	12/29/21 09:56	Soil					
7G56266.D	CAL TPH@20PPM	12/29/21 10:05	Soil	7G56266.	8.1454	0		
7G56267.D	INST BLK	12/29/21 10:49	Soil	7G56266.	0.0000	200		
7G56268.D	SMB96022	12/29/21 11:16	Soil	7G56266.	8.1357	0.1192		
7G56269.D	SMB96022(MS)	12/29/21 11:42	Soil	7G56266.	8.1291	0.2003		
7G56270.D	AD28032-001	12/29/21 12:07	Soil	7G56266.	8.1340	0.1401		
7G56271.D	AD28032-003	12/29/21 12:34	Soil	7G56266.	8.1338	0.1425		
7G56272.D	AD27961-003(MS)	12/29/21 13:00	Soil	7G56266.	8.1274	0.2212		
7G56273.D	AD27961-003(MSD)	12/29/21 13:26	Soil	7G56266.	8.1275	0.22		
7G56274.D	CAL TPH@20PPM	12/29/21 13:52	Soil	7G56266.	8.1359	0.1167		
7G56275.D	AD28012-001(FP)	12/29/21 15:00	Soil	7G56274.	0.0000	200		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56277.D	INST BLK	12/30/21 06:47	Soil					
7G56278.D	CAL TPH@20PPM	12/30/21 07:38	Soil	7G56278.	8.1384	0		
7G56279.D	INST BLK	12/30/21 08:07	Soil	7G56278.	0.0000	200		
7G56280.D	AD27961-001	12/30/21 08:37	Soil	7G56278.	8.1329	0.0676		
7G56281.D	AD27961-002	12/30/21 09:07	Soil	7G56278.	8.1311	0.0897		
7G56282.D	AD27961-003	12/30/21 09:37	Soil	7G56278.	8.1310	0.091		
7G56283.D	AD28000-001	12/30/21 10:07	Soil	7G56278.	8.1317	0.0824		
7G56284.D	SMB96022	12/30/21 10:37	Soil	7G56278.	8.1327	0.0701		
7G56285.D	CAL TPH@20PPM	12/30/21 11:09	Soil	7G56278.	8.1361	0.0283		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1121801 0109

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	---	---	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	---	---	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	---	---	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	---	---	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	---	---	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	---	---	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	---	---	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	---	---	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	---	---	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	---	---	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	---	---	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	---	---	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	---	---	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	---	---	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	---	---	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	---	---	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	---	---	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	---	---	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	---	---	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	---	---	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	---	---	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	---	---	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	---	---	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	---	---	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	---	---	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	---	---	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	---	---	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1121801 0110

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	---	---	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	---	---	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	---	---	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	---	---	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	---	---	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	---	---	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	---	---	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	---	---	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	---	---	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Ava	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	---	---	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	---	---	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	---	---	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	---	---	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	---	---	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	---	---	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	---	---	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	---	---	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	---	---	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	---	---	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	---	---	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Ava	0.4760	0.4717	0.4778	0.4760	0.4743	---	---	---	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Ava	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	---	---	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	---	---	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	---	---	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	---	---	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	---	---	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56266.D			7G56274.D			7G56278.D			7G56285.D					
Method:				8015			8015			8015			8015					
Calibration Name:				CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM					
Calibration Date/Time				12/29/21 10:05			12/29/21 13:52			12/30/21 07:38			12/30/21 11:09					
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	18	20	10.0	19.84	20	0.8	19.16	20	4.2	19.26	20	3.7			
C9	20	1	0	18.29	20	8.5	20.12	20	0.6	19.46	20	2.7	19.63	20	1.9			
C10	20	1	0	18.24	20	8.8	20.11	20	0.6	19.17	20	4.2	19.73	20	1.4			
C12	20	1	0	16.15	20	19.3	20.93	20	4.7	16.9	20	15.5	17.03	20	14.9			
C14	20	1	0	20.2	20	1.0	22.2	20	11.0	20.96	20	4.8	22.13	20	10.7			
C16	20	1	0	21.28	20	6.4	22.83	20	14.2	22.18	20	10.9	22.49	20	12.5			
C17	20	1	0	15.62	20	21.9*	17.02	20	14.9	18.12	20	9.4	18.78	20	6.1			
Pristane	20	1	0	29.08	20	45.4*	32.47	20	62.4*	27.82	20	39.1*	25.88	20	29.4*			
C18	20	1	0	22.2	20	11.0	23.78	20	18.9	21.99	20	9.9	22.89	20	14.5			
Phytane	20	1	0	22.85	20	14.3	24.49	20	22.5*	22.12	20	10.6	23.2	20	16.0			
C20	20	1	0	21.57	20	7.8	23.01	20	15.1	23.83	20	19.2	24.87	20	24.4*			
C22	20	1	0	21.9	20	9.5	23.26	20	16.3	23.67	20	18.4	24.64	20	23.2*			
C24	20	1	0	22.15	20	10.8	23.3	20	16.5	23.65	20	18.3	24.69	20	23.5*			
C26	20	1	0	22.2	20	11.0	23.51	20	17.6	23.89	20	19.5	24.86	20	24.3*			
C28	20	1	0	22.47	20	12.4	23.72	20	18.6	24.54	20	22.7*	25.01	20	25.1*			
C30	20	1	0	22.41	20	12.1	23.66	20	18.3	24.55	20	22.8*	25.51	20	27.6*			
C32	20	1	0	22.24	20	11.2	23.48	20	17.4	25.17	20	25.9*	25.86	20	29.3*			
C34	20	1	0	20.79	20	4.0	22.14	20	10.7	24.04	20	20.2	25.07	20	25.4*			
C36	20	1	0	19.4	20	3.0	20.6	20	3.0	22.19	20	11.0	23.36	20	16.8			
C40	20	1	0	14.17	20	29.2*	17.44	20	12.8	17.41	20	13.0	18.89	20	5.6			
Chlorobenzene	20	1	0	19.45	20	2.7	21.16	20	5.8	20.61	20	3.1	20.98	20	4.9			
O-Terphenyl	20	1	0	22.53	20	12.7	23.78	20	18.9	24.6	20	23.0*	25.43	20	27.2*			
Average Difference	20	1	0			12.4			14.6			17.0			17.9			

Flags/Notes: * - *Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:														
Calibration Name:														
Calibration Date/Time														
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28000-001
Client Id: SB-015SS
Data File: 7G56283.D
Analysis Date: 12/30/21 10:07
Date Rec/Extracted: 12/18/21-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	71	U				

Worksheet #: 623599

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56283.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:07
Operator : ABM/AH
Sample : AD28000-001
Misc : S,TPH
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:27:10 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

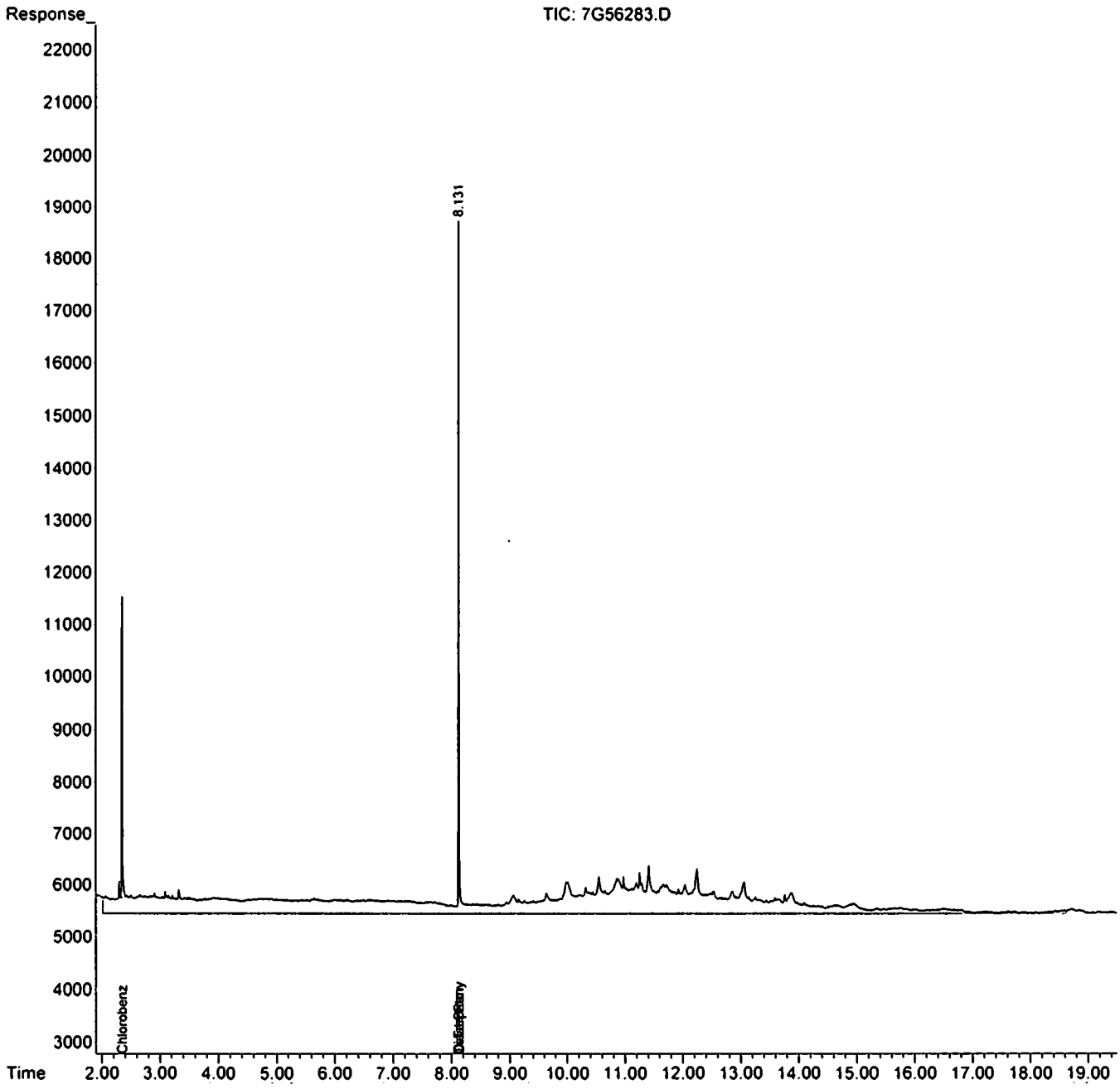
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.349	42212	12.613		
23)	O-Terphenyl	8.132	95201	15.505		
24)d	Diesel Range Organics(T	8.131f	1471626	275.917		m
25)t	Total Petroleum Hydroca	8.131f	2516953	482.772		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56283.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:07
Operator : ABM/AH
Sample : AD28000-001
Misc : S,TPH
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:27:10 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB96022
Client Id:
Data File: 7G56284.D
Analysis Date: 12/30/21 10:37
Date Rec/Extracted: NA-12/28/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 623599

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane.(Total).is.sum.of.a-Chlordane.and.y-Chlordane.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

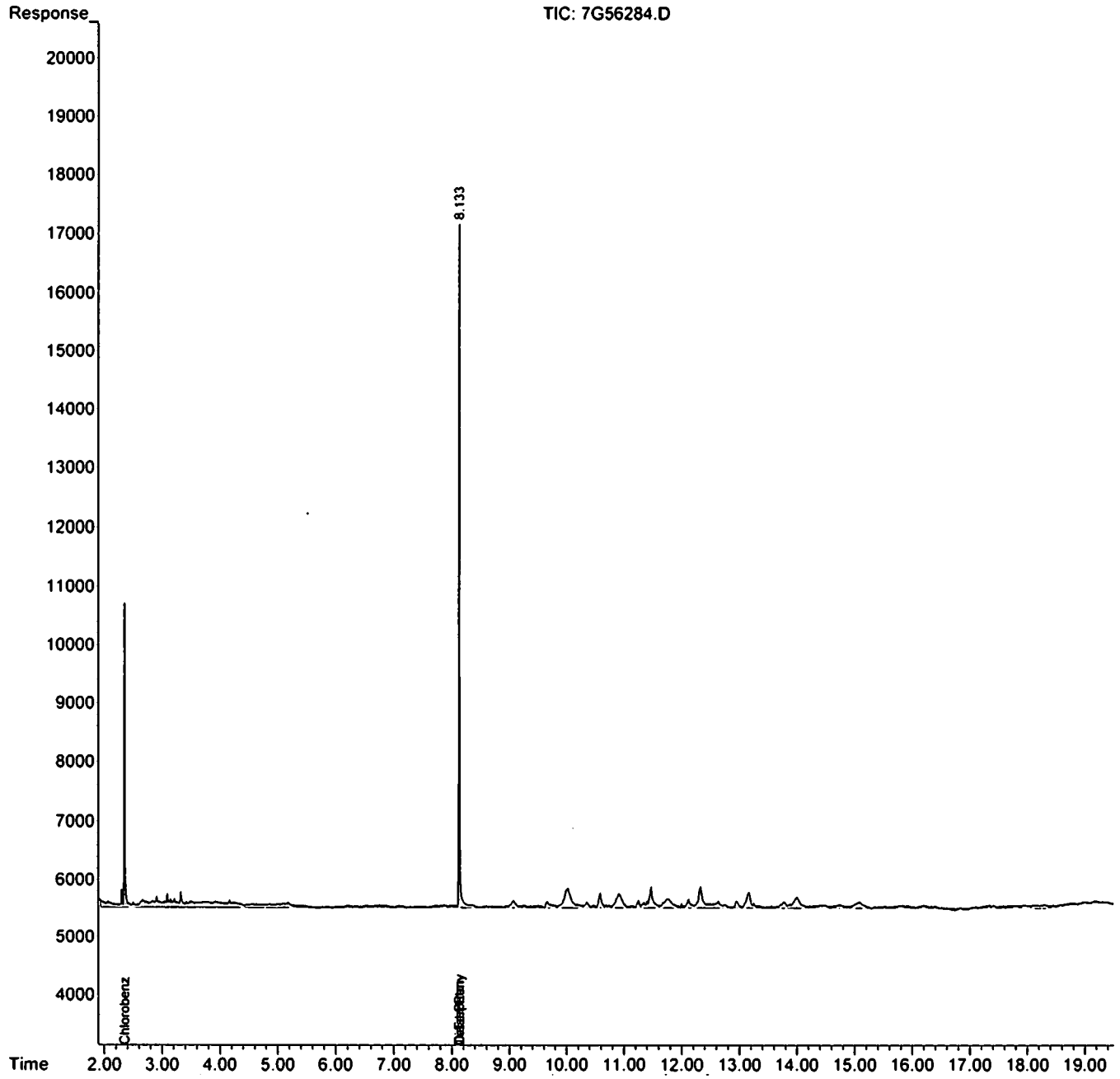
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.350	37775	11.288		
23)	O-Terphenyl	8.133	93677	15.257		
24)d	Diesel Range Organics(T	8.133f	312492	58.590		m
25)t	Total Petroleum Hydroca	8.133f	592515	113.649		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56284.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 10:37
Operator : ABM/AH
Sample : SMB96022
Misc : S,TPH
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:29:55 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

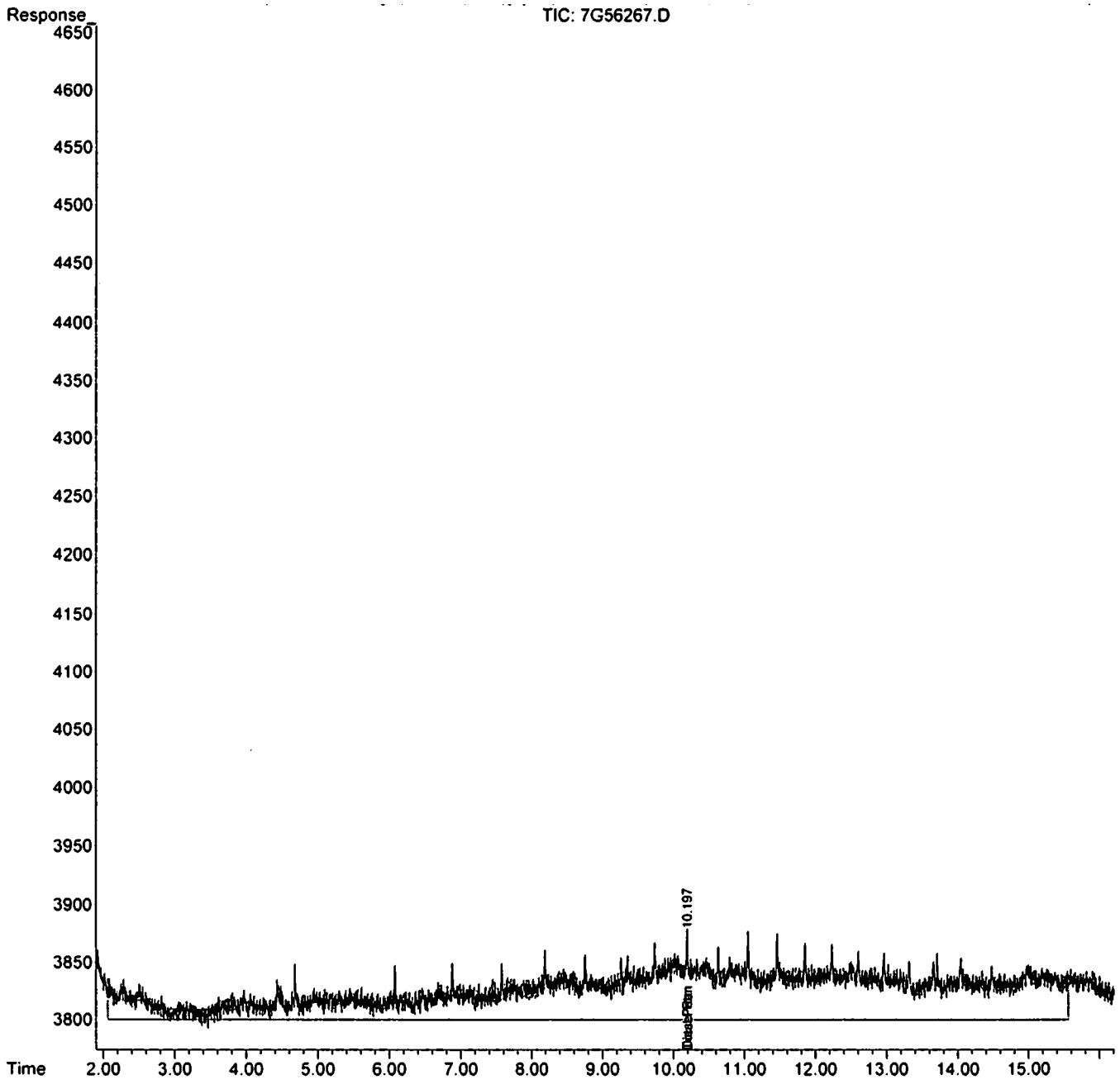
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)	Chlorobenzene	0.000	0	N.D.		
22)	O-Terphenyl	0.000	0	N.D.		
23)d	Diesel Range Organics(T	10.197f	124364	21.689		m
24)t	Total Petroleum Hydroca	10.197f	220862	39.012		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-29-21\
Data File : 7G56267.D
Signal(s) : FID2B.CH
Acq On : 29 Dec 2021 10:49
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 29 14:51:03 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

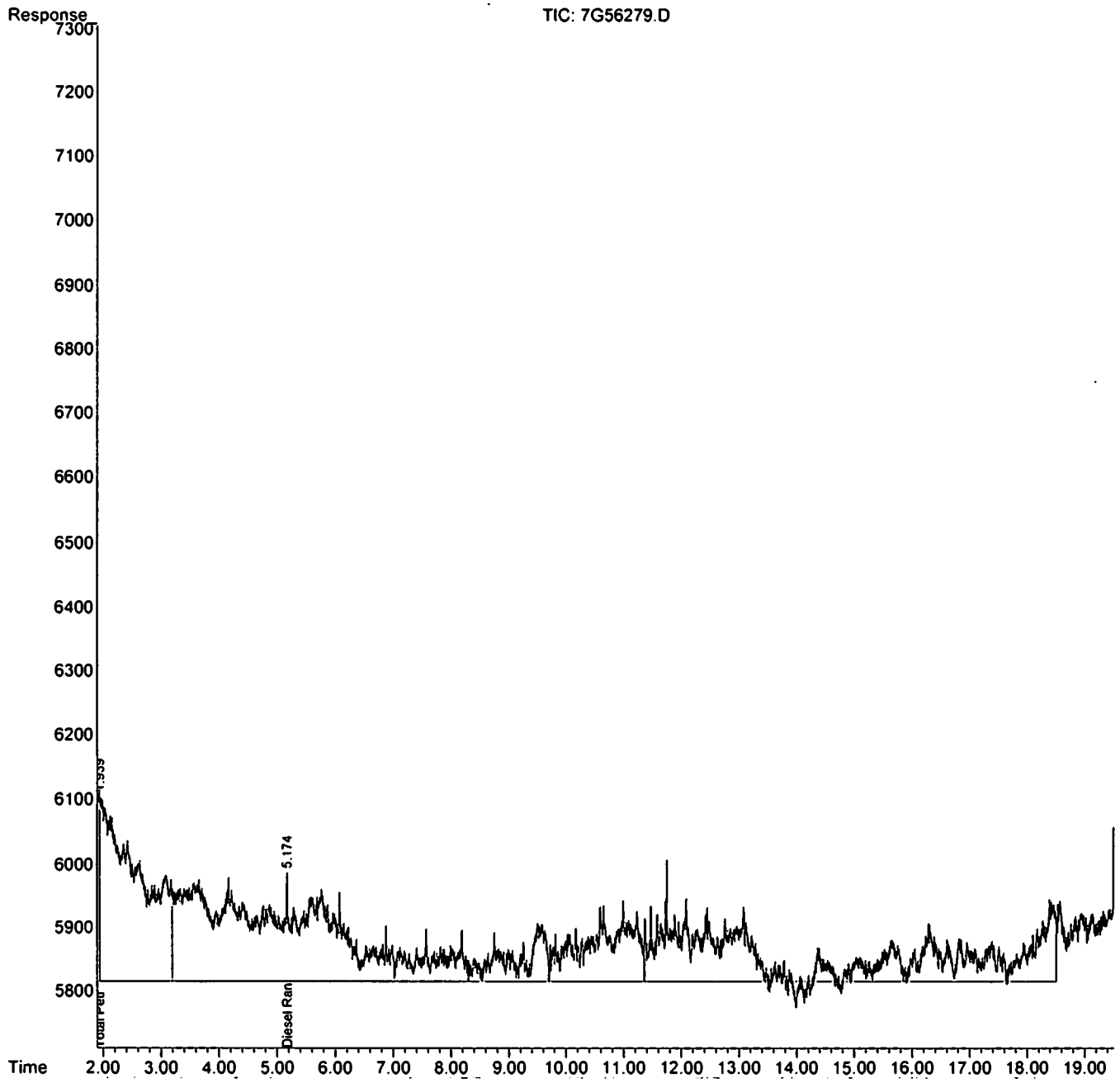
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.174	335766	62.953		m
25)t	Total Petroleum Hydroca	1.939	651446	124.953		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2021\GC_7\Data\12-30-21\
Data File : 7G56279.D
Signal(s) : FID2B.CH
Acq On : 30 Dec 2021 8:07
Operator : ABM/AH
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 30 15:12:27 2021
Quant Method : G:\GCDATA\2021\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56284.D	SMB96022	S	12/30/21 10:37	1		56	76				
7G56283.D	AD28000-001	S	12/30/21 10:07	1		63	78				
7G56269.D	SMB96022(MS)	S	12/29/21 11:42	1		48	78				
7G56272.D	AD27961-003(MS)	S	12/29/21 13:00	1		55	75				
7G56273.D	AD27961-003(MSD)	S	12/29/21 13:26	1		43	74				
7G56282.D	AD27961-003	S	12/30/21 09:37	1		57	68				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56269.D	SMB96022(MS)	12/29/2021 11:42:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1871.97**	**0**	**3000**	**62**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2056.08**	**0**	**3000**	**69**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Non Spike(If applicable):	7G56282.D	AD27961-003	12/30/2021 9:37:00 AM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1683.27**	**0**	**3000**	**56**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB96022

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56273.D	AD27961-003(MSD)	12/29/2021 1:26:00 PM
Duplicate(If applicable):	7G56272.D	AD27961-003(MS)	12/29/2021 1:00:00 PM
Inst Blank(If applicable):	7G56267.D	INST BLK	12/29/2021 10:49:00 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**1683.27**	**2056.08**	**20**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB96022
Blank Data File: 7G56284.D
Matrix: Soil

Blank Analysis Date: 12/30/21 10:37
Blank Extraction Date: 12/28/21
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD28000-001	7G56283.D	12/30/21 10:07
AD27961-003	7G56282.D	12/30/21 09:37
AD27961-003(MSD	7G56273.D	12/29/21 13:26
AD27961-003(MS)	7G56272.D	12/29/21 13:00
SMB96022(MS)	7G56269.D	12/29/21 11:42

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56265.D	INST BLK	12/29/21 09:56	Soil					
7G56266.D	CAL TPH@20PPM	12/29/21 10:05	Soil	7G56266.	8.1454	0		
7G56267.D	INST BLK	12/29/21 10:49	Soil	7G56266.	0.0000	200		
7G56268.D	SMB96022	12/29/21 11:16	Soil	7G56266.	8.1357	0.1192		
7G56269.D	SMB96022(MS)	12/29/21 11:42	Soil	7G56266.	8.1291	0.2003		
7G56270.D	AD28032-001	12/29/21 12:07	Soil	7G56266.	8.1340	0.1401		
7G56271.D	AD28032-003	12/29/21 12:34	Soil	7G56266.	8.1338	0.1425		
7G56272.D	AD27961-003(MS)	12/29/21 13:00	Soil	7G56266.	8.1274	0.2212		
7G56273.D	AD27961-003(MSD)	12/29/21 13:26	Soil	7G56266.	8.1275	0.22		
7G56274.D	CAL TPH@20PPM	12/29/21 13:52	Soil	7G56266.	8.1359	0.1167		
7G56275.D	AD28012-001(FP)	12/29/21 15:00	Soil	7G56274.	0.0000	200		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56277.D	INST BLK	12/30/21 06:47	Soil					
7G56278.D	CAL TPH@20PPM	12/30/21 07:38	Soil	7G56278.	8.1384	0		
7G56279.D	INST BLK	12/30/21 08:07	Soil	7G56278.	0.0000	200		
7G56280.D	AD27961-001	12/30/21 08:37	Soil	7G56278.	8.1329	0.0676		
7G56281.D	AD27961-002	12/30/21 09:07	Soil	7G56278.	8.1311	0.0897		
7G56282.D	AD27961-003	12/30/21 09:37	Soil	7G56278.	8.1310	0.091		
7G56283.D	AD28000-001	12/30/21 10:07	Soil	7G56278.	8.1317	0.0824		
7G56284.D	SMB96022	12/30/21 10:37	Soil	7G56278.	8.1327	0.0701		
7G56285.D	CAL TPH@20PPM	12/30/21 11:09	Soil	7G56278.	8.1361	0.0283		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1121801 0133

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Ava	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Ava	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Ava	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Ava	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Ava	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Ava	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Ava	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Ava	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Ava	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Ava	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Ava	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Ava	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Ava	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Ava	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Ava	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Ava	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Ava	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Ava	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Ava	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Ava	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Ava	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1121801 0134

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	----	----	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	----	----	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	----	----	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	----	----	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	----	----	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	----	----	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	----	----	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	----	----	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	----	----	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	----	----	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	----	----	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	----	----	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	----	----	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	----	----	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	----	----	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	----	----	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	----	----	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	----	----	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	----	----	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	----	----	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	----	----	----	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	----	----	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	----	----	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	----	----	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	----	----	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	----	----	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	----	----	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

				7G56266.D			7G56274.D			7G56278.D			7G56285.D					
Data File:				8015			8015			8015			8015					
Method:				CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM					
Calibration Name:				12/29/21 10:05			12/29/21 13:52			12/30/21 07:38			12/30/21 11:09					
Calibration Date/Time				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	18	20	10.0	19.84	20	0.8	19.16	20	4.2	19.26	20	3.7			
C9	20	1	0	18.29	20	8.5	20.12	20	0.6	19.46	20	2.7	19.63	20	1.9			
C10	20	1	0	18.24	20	8.8	20.11	20	0.6	19.17	20	4.2	19.73	20	1.4			
C12	20	1	0	16.15	20	19.3	20.93	20	4.7	16.9	20	15.5	17.03	20	14.9			
C14	20	1	0	20.2	20	1.0	22.2	20	11.0	20.96	20	4.8	22.13	20	10.7			
C16	20	1	0	21.28	20	6.4	22.83	20	14.2	22.18	20	10.9	22.49	20	12.5			
C17	20	1	0	15.62	20	21.9*	17.02	20	14.9	18.12	20	9.4	18.78	20	6.1			
Pristane	20	1	0	29.08	20	45.4*	32.47	20	62.4*	27.82	20	39.1*	25.88	20	29.4*			
C18	20	1	0	22.2	20	11.0	23.78	20	18.9	21.99	20	9.9	22.89	20	14.5			
Phytane	20	1	0	22.85	20	14.3	24.49	20	22.5*	22.12	20	10.6	23.2	20	16.0			
C20	20	1	0	21.57	20	7.8	23.01	20	15.1	23.83	20	19.2	24.87	20	24.4*			
C22	20	1	0	21.9	20	9.5	23.26	20	16.3	23.67	20	18.4	24.64	20	23.2*			
C24	20	1	0	22.15	20	10.8	23.3	20	16.5	23.65	20	18.3	24.69	20	23.5*			
C26	20	1	0	22.2	20	11.0	23.51	20	17.6	23.89	20	19.5	24.86	20	24.3*			
C28	20	1	0	22.47	20	12.4	23.72	20	18.6	24.54	20	22.7*	25.01	20	25.1*			
C30	20	1	0	22.41	20	12.1	23.66	20	18.3	24.55	20	22.8*	25.51	20	27.6*			
C32	20	1	0	22.24	20	11.2	23.48	20	17.4	25.17	20	25.9*	25.86	20	29.3*			
C34	20	1	0	20.79	20	4.0	22.14	20	10.7	24.04	20	20.2	25.07	20	25.4*			
C36	20	1	0	19.4	20	3.0	20.6	20	3.0	22.19	20	11.0	23.36	20	16.8			
C40	20	1	0	14.17	20	29.2*	17.44	20	12.8	17.41	20	13.0	18.89	20	5.6			
Chlorobenzene	20	1	0	19.45	20	2.7	21.16	20	5.8	20.61	20	3.1	20.98	20	4.9			
O-Terphenyl	20	1	0	22.53	20	12.7	23.78	20	18.9	24.6	20	23.0*	25.43	20	27.2*			
Average Difference	20	1	0			12.4			14.6			17.0			17.9			

Flags/Notes: * - *Values outside of limits for this column/run*

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD28000-001
Client Id: SB-015SS
Data File: 13M23317.D
Analysis Date: 12/22/21 10:52
Date Rec/Extracted: 12/18/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 6.09g:10ml
Final Vol: NA
Dilution: 82.1
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	24	79				

Worksheet #: 623716 *Total Target Concentration* 79 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23317.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 10:52
Operator : JM
Sample : AD28000-001
Misc : M,MEXT!2
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 03 13:09:04 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

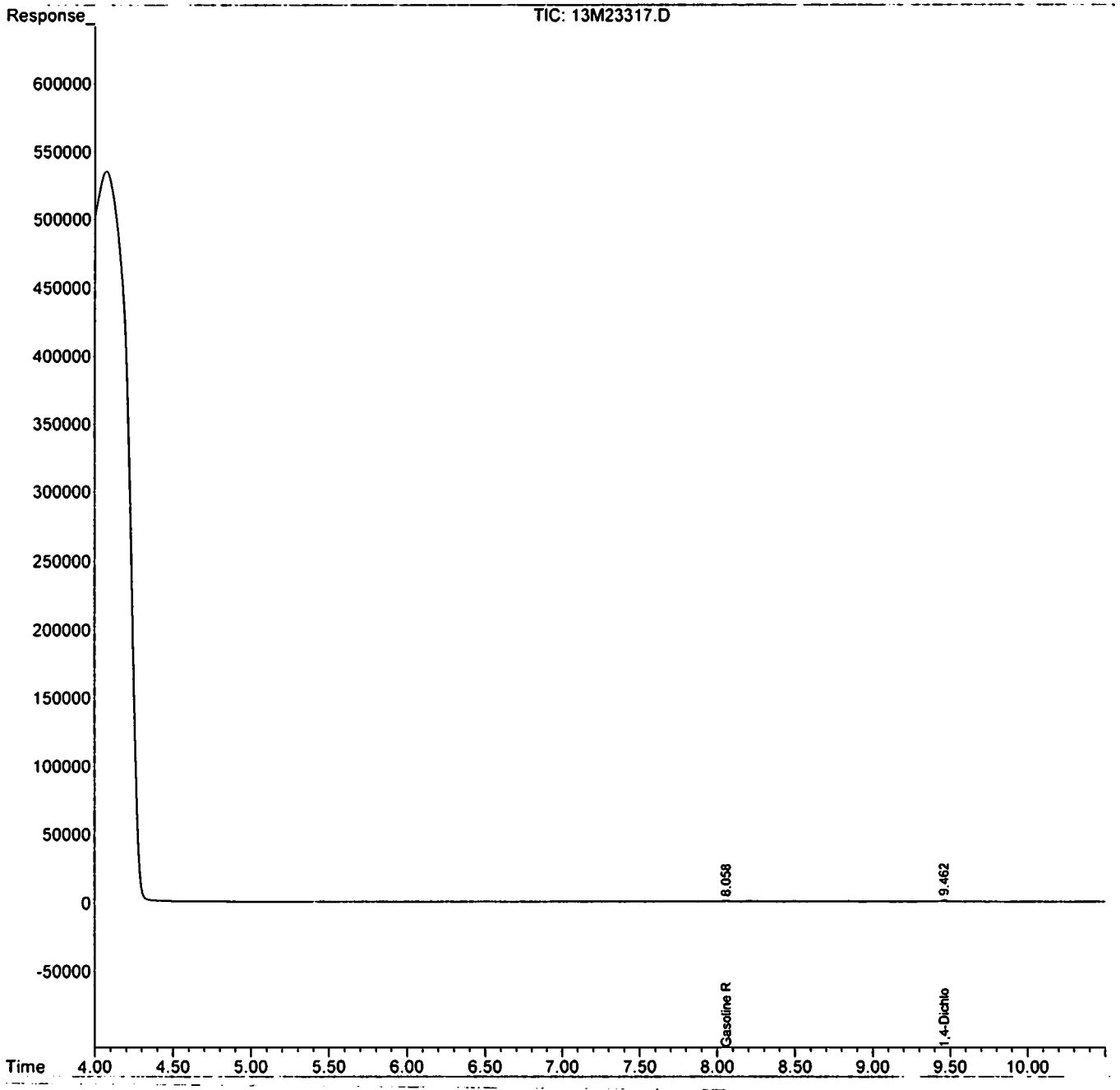
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1)S 1,4-Dichlorobenzene-d4	9.463	22653	27.519
Target Compounds			
2) 2-Methylpentane	0.000	0	N.D.
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.
4)g Gasoline Range Organics	8.058	597895	821.346 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23317.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 10:52
Operator : JM
Sample : AD28000-001
Misc : M,MEXT!2
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 03 13:09:04 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23315.D
Analysis Date: 12/22/21 10:19
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 623716

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23315.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 10:19
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 27 15:17:27 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

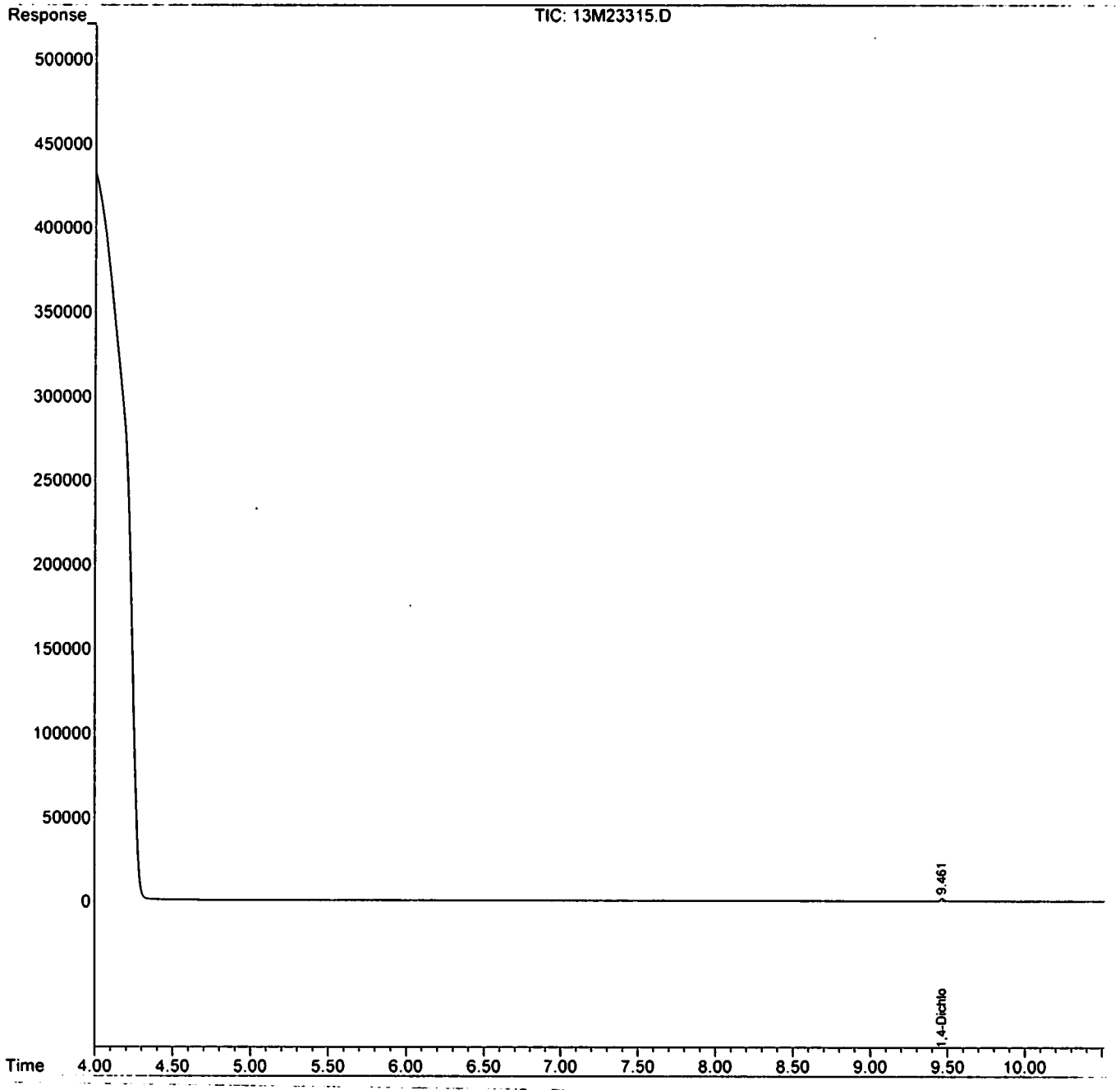
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.463	28036	34.059	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\12-22-21\
Data File : 13M23315.D
Signal(s) : FID1A.CH
Acq On : 22 Dec 2021 10:19
Operator : JM
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Dec 27 15:17:27 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M23315.D	DAILY BLANK	M	12/22/21 10:19	1		114					
13M23317.D	AD28000-001	M	12/22/21 10:52	1		92					
13M23321.D	MBS98303	M	12/22/21 11:58	1		146					
13M23322.D	AD27961-001(MS)	M	12/22/21 12:15	1		114					
13M23323.D	AD27961-001(MSD)	M	12/22/21 12:32	1		106					
13M23327.D	AD27961-001	M	12/22/21 13:39	1		92					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS98303

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23321.D	MBS98303	12/22/2021 11:58:00 A
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 | Matrix: Methanol | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2378.21	0	2000	119	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS98303

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23322.D	AD27961-001(MS)	12/22/2021 12:15:00 P
Non Spike(If applicable):	13M23318.D	AD27961-001	12/22/2021 11:08:00 A
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2696.51	281.56	2000	121	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23323.D	AD27961-001(MSD)	12/22/2021 12:32:00 P
Non Spike(If applicable):	13M23318.D	AD27961-001	12/22/2021 11:08:00 A
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2613.99	281.56	2000	117	11	181

Form3
RPD DATA

QC Batch: MBS98303

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23323.D	AD27961-001(MSD)	12/22/2021 12:32:00 P
Duplicate(If applicable):	13M23322.D	AD27961-001(MS)	12/22/2021 12:15:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	2613.99	2696.51	3.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23315.D
Matrix: Methanol

Blank Analysis Date: 12/22/21 10:19
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD28000-001	13M23317.D	12/22/21 10:52
AD27961-001	13M23327.D	12/22/21 13:39
AD27961-001(MSD	13M23323.D	12/22/21 12:32
AD27961-001(MS)	13M23322.D	12/22/21 12:15
MBS98303	13M23321.D	12/22/21 11:58

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23111.D	BLK	11/24/21 07:34	Aqueous	13M2315	9.4811	0.3667		
13M23114.D	CAL @ 250 PPB	11/24/21 08:24	Aqueous	13M2312	9.4798	0.2313		
13M23116.D	CAL @ 500 PPB	11/24/21 08:57	Aqueous	13M2312	9.4683	0.1099		
13M23118.D	CAL @ 750 PPB	11/24/21 09:30	Aqueous	13M2312	9.4693	0.1205		
13M23120.D	CAL @ 1000 PPB	11/24/21 10:04	Aqueous	13M2312	9.4613	0.0359		
13M23124.D	CAL @ 1500 PPB	11/24/21 11:35	Aqueous	13M2312	9.4803	0.2366		
13M23126.D	CAL @ 2000 PPB	11/24/21 12:08	Aqueous	13M2312	9.4597	0.019		
13M23128.D	CAL @ 4000 PPB	11/24/21 12:41	Aqueous	13M2312	9.4579	0		
13M23131.D	ICV	11/24/21 13:31	Aqueous	13M2312	9.4569	0.0106		
13M23134.D	DAILY BLANK	11/24/21 14:21	Methanol	13M2312	9.4528	0.0539		
13M23135.D	DAILY BLANK	11/24/21 14:37	Aqueous	13M2312	9.4491	0.0931		
13M23136.D	STD	11/24/21 14:58	Aqueous	13M2312	9.4595	0.0169		
13M23137.D	BLK	11/24/21 15:14	Aqueous	13M2312	9.4511	0.0719		
13M23138.D	BLK	11/24/21 15:30	Methanol	13M2312	9.4466	0.1195		
13M23139.D	BLK	11/24/21 15:47	Methanol	13M2312	9.4414	0.1746		
13M23140.D	AD27002-003(80uL)	11/24/21 16:03	Methanol	13M2312	9.4461	0.1248		
13M23141.D	BLK	11/24/21 16:20	Methanol	13M2312	9.4476	0.109		
13M23142.D	BLK	11/24/21 16:36	Methanol	13M2312	9.4552	0.0286		
13M23143.D	AD27002-003(400uL)	11/24/21 16:53	Methanol	13M2312	9.4609	0.0317		
13M23144.D	BLK	11/24/21 17:09	Methanol	13M2312	9.4552	0.0286		
13M23145.D	MBS97290	11/24/21 17:26	Methanol	13M2312	9.4541	0.0402		
13M23146.D	MBS97291	11/24/21 17:42	Aqueous	13M2312	9.4548	0.0328		
13M23147.D	AD27503-008(MS)	11/24/21 17:59	Methanol	13M2312	9.4481	0.1037		
13M23148.D	AD27503-008(MSD)	11/24/21 18:15	Methanol	13M2312	9.4456	0.1301		
13M23149.D	BLK	11/24/21 18:32	Aqueous	13M2312	9.4479	0.1058		
13M23150.D	AD27564-001	11/24/21 18:48	Methanol	13M2312	9.4461	0.1248		
13M23151.D	BLK	11/24/21 19:05	Aqueous	13M2312	9.4491	0.0931		
13M23152.D	MBS97292	11/24/21 19:21	Methanol	13M2312	9.4473	0.1121		
13M23153.D	CAL @ 2000 PPB	11/24/21 19:37	Aqueous	13M2312	9.4464	0.1217		
13M23154.D	2000 PPB	11/24/21 19:54	Aqueous	13M2315	9.4500	0.0381		
13M23155.D	BLK	11/24/21 20:11	Aqueous	13M2315	9.4477	0.0138		
13M23156.D	BLK	11/24/21 20:28	Aqueous	13M2315	9.4474	0.0106		
13M23157.D	BLK	11/24/21 20:45	Aqueous	13M2315	9.4486	0.0233		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23310.D	BLK	12/22/21 08:55	Aqueous	13M2334	0.0000	200		
13M23311.D	2000PPB	12/22/21 09:12	Aqueous	13M2334	0.0000	200		
13M23312.D	CAL @ 2000PPB	12/22/21 09:29	Aqueous	13M2331	9.4760	0		
13M23313.D	BLK	12/22/21 09:45	Aqueous	13M2331	9.4644	0.1225		
13M23315.D	DAILY BLANK	12/22/21 10:19	Methanol	13M2331	9.4627	0.1405		
13M23316.D	AD27991-008	12/22/21 10:35	Methanol	13M2331	9.4605	0.1637		
13M23317.D	AD28000-001	12/22/21 10:52	Methanol	13M2331	9.4626	0.1415		
13M23318.D	AD27961-001	12/22/21 11:08	Methanol	13M2331	9.4614	0.1542		
13M23319.D	AD27961-002	12/22/21 11:25	Methanol	13M2331	9.4614	0.1542		
13M23320.D	AD27961-003	12/22/21 11:41	Methanol	13M2331	9.4668	0.0971		
13M23321.D	MBS98303	12/22/21 11:58	Methanol	13M2331	9.4690	0.0739		
13M23322.D	AD27961-001(MS)	12/22/21 12:15	Methanol	13M2331	9.4678	0.0866		
13M23323.D	AD27961-001(MSD)	12/22/21 12:32	Methanol	13M2331	9.4668	0.0971		
13M23324.D	STD	12/22/21 12:49	Aqueous	13M2331	9.4687	0.0771		
13M23325.D	BLK	12/22/21 13:05	Aqueous	13M2331	9.4729	0.0327		
13M23326.D	BLK	12/22/21 13:22	Aqueous	13M2331	9.4756	0.0042		
13M23327.D	AD27961-001	12/22/21 13:39	Methanol	13M2331	9.4743	0.0179		
13M23328.D	AD27961-002	12/22/21 13:55	Methanol	13M2331	9.4738	0.0232		
13M23329.D	AD27961-003	12/22/21 14:12	Methanol	13M2331	9.4677	0.0876		
13M23330.D	AD28027-011	12/22/21 14:28	Methanol	13M2331	9.4760	0		
13M23331.D	AD28027-012	12/22/21 14:45	Methanol	13M2331	9.4795	0.0369		
13M23334.D	STD	12/22/21 15:36	Aqueous	13M2331	9.4669	0.0961		
13M23337.D	BLK	12/22/21 16:10	Aqueous	13M2331	9.4679	0.0855		
13M23338.D	AD28027-012	12/22/21 16:26	Methanol	13M2331	9.4810	0.0528		
13M23340.D	AD28027-011(200UL)	12/22/21 16:59	Methanol	13M2331	9.4778	0.019		
13M23342.D	CAL @ 2000PPB	12/22/21 17:33	Aqueous	13M2331	9.4751	0.0095		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

1121801 0151

Method: EPA 8015D

Form 6
Initial Calibration

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M23128.	CAL @ 4000 PPB	11/24/21 12:41	2	13M23126.	CAL @ 2000 PPB	11/24/21 12:08
3	13M23124.	CAL @ 1500 PPB	11/24/21 11:35	4	13M23120.	CAL @ 1000 PPB	11/24/21 10:04
5	13M23118.	CAL @ 750 PPB	11/24/21 09:30	6	13M23116.	CAL @ 500 PPB	11/24/21 08:57
7	13M23114.	CAL @ 250 PPB	11/24/21 08:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	0.1152	0.0918	0.0778	0.0779	0.0742	0.0704	0.0686	----	0.0823	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0009	0.0008	0.0008	0.0010	0.0009	0.0009	0.0008	----	0.000910	5.44	0.992	0.996	8.8	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0015	0.0013	0.0014	0.0014	0.0014	0.0016	----	0.00150	9.27	0.997	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0784	0.0756	0.0792	0.0709	0.0701	0.0597	0.0754	----	0.0728	8.51	0.999	0.999	9.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.5 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #.

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M23312.D			13M23342.D								
Method:			8015			8015								
Calibration Name:			CAL @ 2000PPB			CAL @ 2000PPB								
Calibration Date/Time			12/22/21 09:29			12/22/21 17:33								
			Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1749	2000	12.6	1664	2000	16.8									

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28000-001	% Solid:	85	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-015SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/20/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc.	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.9	13	1	0.5	50	12/22/21	97652	S28034A3	33	P	PEICP3A
7439-92-1	Lead	5.9	10	1	0.5	50	12/22/21	97652	S28034A3	33	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28000-001	% Solid:	85	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-015SS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	12/20/2021	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.24	3.1	1	0.5	100	12/22/21	976532	221ANEW	22	MS	MS3_7700SWA
7440-43-9	Cadmium	0.47	ND	1	0.5	100	12/22/21	976532	221ANEW	22	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 97652 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 97652 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-36-0	Antimony	2.0	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-38-2	Arsenic	2.0	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-39-3	Barium	5.0	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-41-7	Beryllium	0.60	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-42-8	Boron	10	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-43-9	Cadmium	0.60	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-70-2	Calcium	500	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-47-3	Chromium	2.5	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-48-4	Cobalt	1.2	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-50-8	Copper	2.5	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7439-89-6	Iron	100	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7439-92-1	Lead	2.5	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7439-95-4	Magnesium	250	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7439-96-5	Manganese	5.0	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7439-98-7	Molybdenum	1.2	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-02-0	Nickel	2.5	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-22-4	Silver	0.75	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-28-0	Thallium	2.5	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-32-6	Titanium	5.0	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A
7440-66-6	Zinc	5.0	ND	1	0.5	50	12/22/21	97652	S28034A3	22	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 97653 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 97653 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7439-98-7	Molybdenum	0.20	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	12/22/21	97653	2221ANEW	19	MS	S3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/22/21
Data File: S28034A3
Prep Batch: 97652
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-14	Rec	CCV V-360409-20	Rec	CCV V-360409-31	Rec	CCV V-360409-39	Rec		Rec		Rec		Rec
Aluminum	5/5	5.06411	101	5.05453	101	5.00498	100	4.95144	99	5.02007	100						
Barium	.5/.5	0.49940	100	0.48958	98	0.50527	101	0.47394	95	0.47881	96						
Calcium	50/50	52.15750	104	51.11150	102	50.00260	100	48.91350	98	49.41800	99						
Chromium	.5/.5	0.50086	100	0.48518	97	0.50025	100	0.45894	92	0.46326	93						
Cobalt	.5/.5	0.50078	100	0.49147	98	0.48245	96	0.47463	95	0.48300	97						
Copper	.5/.5	0.51415	103	0.51848	104	0.51691	103	0.51363	103	0.52028	104						
Iron	5/5	5.03014	101	4.97053	99	4.86277	97	4.79819	96	4.85809	97						
Lead	.5/.5	0.50884	102	0.47950	96	0.46826	94	0.44872	90	0.45722	91						
Magnesium	50/50	50.97550	102	50.02230	100	48.72150	97	47.91680	96	48.43420	97						
Manganese	.5/.5	0.50522	101	0.49352	99	0.48166	96	0.47230	94	0.47669	95						
Nickel	.5/.5	0.50217	100	0.48097	96	0.46777	94	0.45286	91	0.46009	92						
Zinc	.5/.5	0.52291	105	0.49594	99	0.48290	97	0.46774	94	0.47537	95						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/22/21
Data File: S28034A3
Prep Batch: 97652
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360414	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	4.96951	99	80	120	500	459.699	92	90	110
Aluminum	2.0	2.00618	100	80	120	500	463.908	93	90	110
Arsenic	0.04	0.0408429	102	80	120	10	9.71498	97	90	110
Boron	0.2	0.202818	101	80	120	5	4.42588	89 a	90	110
Barium	0.1	0.101127	101	80	120	10	9.66864	97	90	110
Beryllium	0.012	0.0116577	97	80	120	5	4.76033	95	90	110
Calcium	10	10.1026	101	80	120	500	453.821	91	90	110
Cadmium	0.012	0.0146212	122 a	80	120	5	4.64320	93	90	110
Cerium	0.2	0.279	140 a	80	120	25	22.83	91	90	110
Cobalt	0.025	0.0268633	107	80	120	5	4.45306	89 a	90	110
Chromium	0.05	0.0471942	94	80	120	10	9.31639	93	90	110
Copper	0.05	0.0533015	107	80	120	10	9.80499	98	90	110
Silver	0.015	0.0136212	91	80	120	1	0.996762	100	90	110
Potassium	NA	-17.6885		80	120	200	914.161	457 a	90	110
Zinc	0.1	0.0954395	95	80	120	10	9.13334	91	90	110
Manganese	0.1	0.0973251	97	80	120	10	9.58225	96	90	110
Molybdenum	0.025	0.0252356	101	80	120	10	9.54814	95	90	110
Sodium	NA	2.64233		80	120	1000	1035.32	104	90	110
Nickel	0.05	0.0504603	101	80	120	10	8.79620	88 a	90	110
Lead	0.05	0.0485340	97	80	120	10	9.31692	93	90	110
Antimony	0.04	0.0405560	101	80	120	5	5.02819	101	90	110
Selenium	0.05	0.0535059	107	80	120	5	4.86246	97	90	110
Silicon	0.2	0.226056	113	80	120	25	23.9311	96	90	110
Tin	0.2	0.197043	99	80	120	10	9.35264	94	90	110
Titanium	0.1	0.0969676	97	80	120	10	9.67378	97	90	110
Thallium	0.05	0.0513891	103	80	120	5	4.81900	96	90	110
Vanadium	0.1	0.0913504	91	80	120	10	9.03106	90	90	110
Iron	2.0	1.97218	99	80	120	400	374.836	94	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 12/22/21
Data File: S122221ANEW
Prep Batch: 97653
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-363697-9	Rec	CCV V-363701-17	Rec	CCV V-363701-29	Rec	CCV V-363701-39	Rec	Rec	Rec	Rec	Rec
Antimony	50/50	50.05700	100	51.75300	104	50.31300	101	51.52100	103				
Arsenic	50/50	50.55200	101	50.76600	102	49.69000	99	50.29400	101				
Beryllium	50/50	48.75200	98	47.85400	96	46.59700	93	48.74900	97				
Cadmium	50/50	50.27200	101	51.11500	102	49.62800	99	50.69900	101				
Potassium	5000/5000	5038.8610 a	101	4991.5890 a	100	4853.6320 a	97	4885.6560 a	98				
Selenium	50/250	50.79000	102	251.86600	101	249.71900	100	249.66800	100				
Silver	10/50	10.15600	102	51.62100	103	49.88400	100	51.15900	102				
Sodium	5000/5000	5077.0090 a	102	4986.2560 a	100	4800.2100 a	96	4824.7830 a	96				
Thallium	50/50	48.44000	97	52.35700	105	51.77800	104	51.99400	104				
Vanadium	50/50	49.32100	99	50.35800	101	49.01000	98	50.07200	100				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 12/22/21
Data File: S122221ANEW
Prep Batch: 97653
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-363702	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-363700	Recovery	Low Limit	High Limit
Magnesium	500	505.412	101	80	120	50000	49952.559	100	90	110
Aluminum	500	497.347	99	80	120	15000	14897.631	99	90	110
Arsenic	1	0.962	96	80	120	500	506.800	101	90	110
Barium	5	4.917	98	80	120	500	496.938	99	90	110
Beryllium	1	1.012	101	80	120	500	454.926	91	90	110
Calcium	500	504.178	101	80	120	50000	51712.767	103	90	110
Cadmium	2	2.013	101	80	120	500	498.368	100	90	110
Cobalt	2	2.023	101	80	120	500	494.516	99	90	110
Chromium	2	1.911	96	80	120	500	501.681	100	90	110
Copper	10	11.383	114	80	120	500	479.023	96	90	110
Silver	1	0.951	95	80	120	500	67.422	13a	90	110
Potassium	500	501.439	100	80	120	50000	50582.920	101	90	110
Zinc	20	20.052	100	80	120	500	487.277	97	90	110
Manganese	6	6.002	100	80	120	500	508.129	102	90	110
Molybdenum	1	1.004	100	80	120	500	493.692	99	90	110
Sodium	500	406.339	81	80	120	50000	50784.629	102	90	110
Nickel	3	3.093	103	80	120	500	500.230	100	90	110
Lead	2	1.908	95	80	120	500	469.446	94	90	110
Antimony	4	3.770	94	80	120	500	489.089	98	90	110
Selenium	10	9.475	95	80	120	2500	2468.324	99	90	110
Thallium	2	1.962	98	80	120	500	469.520	94	90	110
Vanadium	1	1.001	100	80	120	500	508.430	102	90	110
Iron	500	507.818	102	80	120	50000	50356.332	101	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/22/21
Data File: S28034A3
Prep Batch: 97652
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-6	CCB V-360404-15	CCB V-360404-21	CCB V-360404-32	CCB V-360404-40	MB 97652 (100)-22
Aluminum	1 U	2U	2U	2U	2 U	100U
Barium	.05 U	.1 U	.1 U	.1 U	.1 U	5U
Calcium	5 U	10 U	10 U	10 U	10 U	500U
Chromium	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Cobalt	.0125 U	.025 U	.025 U	.025 U	.025 U	1.3U
Copper	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Iron	1 U	2U	2U	2U	2 U	100U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Magnesium	2.5 U	5U	5U	5U	5 U	250U
Manganese	.05 U	.1 U	.1 U	.1 U	.1 U	5U
Nickel	.025 U	.05 U	.05 U	.05 U	.05 U	2.5U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	5U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 12/22/21
Data File: S122221ANEW
Prep Batch: 97653
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-363698-11	CCB V-363698-18	CCB V-363698-30	CCB V-363698-40	MB 97653-19			
Antimony	2U	4U	4U	4U	400 U			
Arsenic	.5U	1U	1U	1U	100 U			
Beryllium	.5U	1U	1U	1U	100 U			
Cadmium	1U	2U	2U	2U	200 U			
Potassium	250U	500U	500U	500U	50000 U			
Selenium	5U	10U	10U	10U	1000 U			
Silver	.5U	1U	1U	1U	100 U			
Sodium	250U	500U	500U	500U	50000 U			
Thallium	1U	2U	2U	2U	200 U			
Vanadium	.5U	1U	1U	1U	100 U			

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/22/21
Data File: S28034A3
Prep Batch: 97652
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	502.15E	100							
Barium	0	U								
Calcium	500	483.13E	97							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	200.14E	100							
Lead	0	U								
Magnesium	500	498.224	100							
Manganese	0	U								
Nickel	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 12/22/21
Data File: S122221ANEW
Prep Batch: 97653
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1121801

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-363699-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	48592.24	97							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	152844.1	102							
Iron	125000	124974.3	100							
Magnesium	50000	50731.53	101							
Potassium	50000	50676.57	101							
Selenium	0	U								
Silver	0	U								
Sodium	125000	126731.6	101							
Thallium	0	U								
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97652

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97652

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97652	1	S28034A3	24	0.5791	.734	79		67	125
Lead	97652	1	S28034A3	24	1.5554	1.86	84		68	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 97652

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97652	1	S28034A3	23	0.5713	.734	78		67	125
Lead	97652	1	S28034A3	23	1.5339	1.86	82		68	119

TxtQcType: MSD Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97652	1	S28034A3	28	S28034A3	25	0.4653	0.05U	0.5	93		75	125
Lead	97652	1	S28034A3	28	S28034A3	25	0.4624	0.05U	0.5	92		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97652	1	S28034A3	27	S28034A3	25	0.4563	0.05U	0.5	91		75	125
Lead	97652	1	S28034A3	27	S28034A3	25	0.4507	0.05U	0.5	90		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97652

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD28016-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S28034A3	29	S28034A3	25	0.4991	0.05U	0.50	100		75	125
Lead	1	S28034A3	29	S28034A3	25	0.4696	0.05U	0.50	94		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH:97653

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97653

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97653	1	S122221A	21	200.6820	225	89		65	121
Cadmium	97653	1	S122221A	21	231.8460	249	93		70	117

TxtQcType: LCS Matrix: SOIL SampleID: LCS 97653

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97653	1	S122221A	20	199.0450	225	88		65	121
Cadmium	97653	1	S122221A	20	229.8740	249	92		70	117

TxtQcType: MSD Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97653	1	S122221A	36	S122221A	32	246.6080	15.4560	250	92		75	125
Cadmium	97653	1	S122221A	36	S122221A	32	237.0800	2U	250	95		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97653	1	S122221A	35	S122221A	32	234.1810	15.4560	250	87		75	125
Cadmium	97653	1	S122221A	35	S122221A	32	231.2570	2U	250	93		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH:97653

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD28016-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S122221A	37	S122221A	32	66.3810	15.4560	50	102		75	125
Cadmium	1	S122221A	37	S122221A	32	51.3770	2U	50	103		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 97652

Instrument Type: ICP/HG

Analytical Method(s): 6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97652

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97652	S28034A3	24	S28034A3	23	0.5791	0.5713	1.4	20
Lead	97652	S28034A3	24	S28034A3	23	1.5554	1.5339	1.4	20

TxtQcType: MR Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97652	S28034A3	26	S28034A3	25	0.05U	0.05U	---	20
Lead	97652	S28034A3	26	S28034A3	25	0.05U	0.05U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97652	S28034A3	28	S28034A3	27	0.4653	0.4563	2	20
Lead	97652	S28034A3	28	S28034A3	27	0.4624	0.4507	2.6	20

TxtQcType: SD Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	97652	S28034A3	30	S28034A3	25	5	0.0047	0.0303	23	c	10
Lead	97652	S28034A3	30	S28034A3	25	5	-0.0004	0.0136	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 97653

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 97653

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	97653	S122221A	21	S122221A	20	200.6820	199.0450	.82		20
Cadmium	97653	S122221A	21	S122221A	20	231.8460	229.8740	.85		20

TxtQcType: MR Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	97653	S122221A	33	S122221A	32	11.7750	15.4560	27	a	20
Cadmium	97653	S122221A	33	S122221A	32	2U	2U	---		20

TxtQcType: MSD Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	97653	S122221A	36	S122221A	35	246.6080	234.1810	5.2	20
Cadmium	97653	S122221A	36	S122221A	35	237.0800	231.2570	2.5	20

TxtQcType: SD Matrix: SOIL SampleID: AD28016-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Arsenic	97653	S122221A	34	S122221A	32	5	3.0200	15.4560	2.3	20
Cadmium	97653	S122221A	34	S122221A	32	5	0.0070	0.0790	---	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 28034 Analyst: DL

QC Number: 97652 Prep Date: 12/22/21

Matrix: Soil 6010 Reviewed By: DL MS

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	"			-	
LCS	0.5g					-	
LCSD						-	
1. 28016-001							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -001							
MR -001							
MS -001							Balance used: 039
MSD -001							Pipettes used: 149 153
2. 28000-001							
3. 27925-002							Hot Block used: 5
4. L -004							
5. 28006-002							
6. 28004-011							
7. L -012							
8. 28027-005							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 91.6 C (90-95° C) Start Time: 7:00a End Time: 10:30am

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.25	V- 14276 14277
LLMS, LLMSD		V- 358096

Acid	Vol mL	Lot#
HNO_3	2.5	V- 14296
HCl	5.0	V- 14217
H_2O_2	1.5	V- 14240

Acid	Vol mL	Lot#
1:1 HNO_3	5	V- 359994
1:1 HCl		V-

Relinquished By DL Date 12/22/21

Received By DL Date 12/30/21

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A (3050B) 200.7/200.8 OTHER_____

Batch No.: 28035 Analyst: DL

QC Number: 97653 Prep Date: 12/22/21

Matrix: Soil 6020 Reviewed By: [signature]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		–	
LCS	0.5g	↓	↓	↓		–	
LCSD	↓	↓	↓	↓		–	
1. 28016-001	0.5g	↓	↓	↓			Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -001	↓	↓	↓	↓			↓
MR -001	↓	↓	↓	↓			
MS -001	↓	↓	↓	↓			Balance used: 039
MSD -001	↓	↓	↓	↓			Pipettes used: 149 153
2. 28000-001	↓	↓	↓	↓			
3. 27925-002	↓	↓	↓	↓			Hot Block used: 5
4. ↓ -004	↓	↓	↓	↓			↓
5. 28006-002	↓	↓	↓	↓			↓
6. 28004-011	↓	↓	↓	↓			↓
7. ↓ -012	↓	↓	↓	↓			↓
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 91.6 C (90-95° C) Start Time: 7:00am End Time: 10:30am

	Volume mL	Lot #
LCS, LCSD	0.1g	V- 14201
LLLCS, LLLCSD		V-
MS, MSD	0.25	V- 14276 14277
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-14296
HCl	5.0	V- 14217
H_2O_2	1.5	V-14240

Acid	Vol mL	Lot#
1:1 HNO_3	5	V- 359994
1:1 HCl		V-

Relinquished By [signature] Date 12/22/21

Received By [signature] Date 12/22/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S28034A3.txt

Analysis Date: 12/22/21 **Instrument** PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-360404	1	CAL	08:37	1							V-360404(ICB/CCB)
CALST2 V-360414	1	CAL	08:41	2							V-360414(LLICV/LLCCV soil)
CALST3 V-360405	1	CAL	08:45	3							V-360405(ICS3 - Middle Std)
CALST4 V-360406	1	CAL	08:48	4							V-360406(ICS4 High std)
ICV V-360409	1	ICV	08:51	5							V-360409(CCV)
ICB V-360404	1	ICB	08:55	6							V-360404(ICB/CCB)
LRS V-360412	1	LRS	08:58	7	MET-TAL6010S	SOIL	SOIL	SW846	97652	Co,Ni failed	V-360412(LRS)
ICS3 V-360405	1	ICS	09:03	8							V-360405(ICS3 - Middle Std)
RINSE	1	NA	09:06	9	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
LLICV V-360414	1	LLICV	09:10	10	MET-TAL6010S	SOIL	SOIL	SW846	97652		V-360414(LLICV/LLCCV soil)
ICSA V-360410	1	ICSA	09:14	11							V-360410(ICSA)
AD27925-002	1	SMP	09:18	12	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
AD27925-004	1	SMP	09:21	13	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
CCV V-360409	1	CCV	09:24	14							V-360409(CCV)
CCB V-360404	1	CCB	09:28	15							V-360404(ICB/CCB)
AD27996-001	1	NA	09:31	16	MET-TAL6010S	SOIL	SOIL	SW846	97649		0
AD27996-001	2	SMP	09:36	17	MET-TAL6010S	SOIL	SOIL	SW846	97649	Fe,Zn reported	0
AD27998-001	5	SMP	09:40	18	MET-TAL6010S	SOIL	SOIL	SW846	97649	Ca reported	0
AD27999-001	5	SMP	09:43	19	MET-TAL6010S	SOIL	SOIL	SW846	97649	Ca reported	0
CCV V-360409	1	CCV	09:47	20							V-360409(CCV)
CCB V-360404	1	CCB	09:50	21							V-360404(ICB/CCB)
MB 97652 (100)	1	MB	09:53	22	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
LCS 97652	1	LCS	09:57	23	MET-TAL6010S	SOIL	SOIL	SW846	97652	Ni>LRS not reported	0
LCS MR 97652	1	LCS	10:01	24	MET-TAL6010S	SOIL	SOIL	SW846	97652	Ni>LRS not reported	0
AD28016-001	1	SMP	10:05	25	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
AD28016-001	1	MR	10:09	26	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
AD28016-001	1	MS	10:13	27	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
AD28016-001	1	MSD	10:16	28	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
AD28016-001	1	PS	10:20	29	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
AD28016-001	5	SD	10:23	30	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
CCV V-360409	1	CCV	10:27	31							V-360409(CCV)
CCB V-360404	1	CCB	10:30	32							V-360404(ICB/CCB)
AD28000-001	1	SMP	10:33	33	MET-RCRA-S	SOIL	SOIL	SW846	97652		0
AD28006-002	1	SMP	10:38	34	MET-RCRA-S	SOIL	SOIL	SW846	97652		0
AD28004-011	1	SMP	10:42	35	MET-TAL6010S	SOIL	SOIL	SW846	97652	Ca not reported	0
AD28004-012	1	SMP	10:46	36	MET-TAL6010S	SOIL	SOIL	SW846	97652		0
AD28027-005	1	SMP	10:50	37	MET-PP6010S	SOIL	SOIL	SW846	97652		0
AD28004-011	5	SMP	10:53	38	MET-TAL6010S	SOIL	SOIL	SW846	97652	Ca reported	0
CCV V-360409	1	CCV	10:57	39							V-360409(CCV)
CCB V-360404	1	CCB	11:00	40							V-360404(ICB/CCB)

Comments/Reviewedby:

dlucca
192.168.1.105 12/22/2021 9:48:44 AM

Run is Ok All elements reported

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

SL 12/30/21

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S122221ANEW.txt

Analysis Date: 12/22/21 **Instrument** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	09:10	1		SOIL	SOIL	SW846	97653		0
RINSE	1	NA	09:15	2		SOIL	SOIL	SW846	97653		0
CalBlk V-363691	1	ISBLK	09:19	3		SOIL	SOIL				V-363691(Cal Blk WARNING)
CalStd1 V-363692	1	CAL	09:24	4							V-363692(Cal Std-1 WARNING)
CalStd2 V-363693	1	CAL	09:28	5							V-363693(Cal Std-2 WARNING)
CalStd3 V-363694	1	CAL	09:33	6							V-363694(Cal Std-3 WARNING)
CalStd4 V-363695	1	CAL	09:37	7							V-363695(Cal Std-4 WARNING)
CalStd5 V-363696	1	CAL	09:41	8							V-363696(Cal Std-5 WARNING)
ICV V-363697	1	ICV	09:46	9							V-363697(ICV WARNING)
LLICV V-363702	1	LLICV	09:50	10		SOIL	SOIL	SW846	97653		V-363702(LL-ICV/CCV SOIL WARNING)
ICB V-363698	1	ICB	09:54	11							V-363698(ICB/CCB WARNING)
ICSA V-363699	1	ICSA	09:59	12							V-363699(ICSA WARNING)
RINSE	1	NA	10:03	13		SOIL	SOIL	SW846	97653		0
LRS V-363700	1	LRS	10:08	14		SOIL	SOIL	SW846	97653	Ag fail.	V-363700(LRS WARNING)
RINSE	1	NA	10:12	15		SOIL	SOIL	SW846	97653		0
RINSE	1	NA	10:16	16		SOIL	SOIL	SW846	97653		0
CCV V-363701	1	CCV	10:21	17							V-363701(CCV WARNING)
CCB V-363698	1	CCB	10:25	18							V-363698(ICB/CCB WARNING)
MB 97653	1	MB	10:30	19		SOIL	SOIL	SW846	97653		0
LCS 97653	1	LCS	10:34	20		SOIL	SOIL	SW846	97653		0
LCS MR 97653	1	LCS	10:38	21		SOIL	SOIL	SW846	97653		0
AD28000-001	1	SMP	10:43	22	MET-RCRA-MS	SOIL	SOIL	SW846	97653		0
AD27925-002	1	SMP	10:47	23	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD27925-004	1	SMP	10:51	24	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD28006-002	1	SMP	10:56	25	MET-RCRA-MS	SOIL	SOIL	SW846	97653		0
AD28004-011	1	SMP	11:00	26	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD28004-012	1	SMP	11:05	27	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
RINSE	1	NA	11:09	28		SOIL	SOIL	SW846	97653		0
CCV V-363701	1	CCV	11:13	29							V-363701(CCV WARNING)
CCB V-363698	1	CCB	11:18	30							V-363698(ICB/CCB WARNING)
AD28027-005	1	SMP	11:22	31	MET-PP6020S	SOIL	SOIL	SW846	97653		0
AD28016-001	1	SMP	11:26	32	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD28016-001	1	MR	11:31	33	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD28016-001	5	SD	11:35	34	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD28016-001	1	MS	11:40	35	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD28016-001	1	MSD	11:44	36	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
AD28016-001	1	PS	11:48	37	MET-TAL6020S	SOIL	SOIL	SW846	97653		0
RINSE	1	NA	11:52	38		SOIL	SOIL	SW846	97653		0
CCV V-363701	1	CCV	11:57	39							V-363701(CCV WARNING)
CCB V-363698	1	CCB	12:01	40							V-363698(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.87 12/22/2021 12:30:57 PM

Run ok. Report Ag, As, Be, Cd, K, Na, Sb, Se, Tl, V. LRS fail for Ag. Ag Lr = 100ppb. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 2x 12/22/21

Standard/Batch/SnCl2 Lot #:

12/23/21

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S122221AN Sample ID: CalBlk V-363691 Sample Date 12/22/21 Sample Time: 09:19

IS ID:	Area	Area Limit		
Ho-1	3320505.19	2324353.633	-	4316656.747
In-1	2912309.92	2038616.944	-	3786002.896
Sc-1	1921787.78	1345251.446	-	2498324.114
Tb-1	3503370.23	2452359.161	-	4554381.299

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	3320505.	2912309.	1921787.	3503370.				
SMP	RINSE	1	3187235.	2811658.	1803148.	3369341.				
SMP	RINSE	2	3231155.	2839737.	1837365.	3410868.				
CAL	CalStd1 V-36369	4	3400472.	3038039.	1999470.	3590797.				
CAL	CalStd2 V-36369	5	3445691.	3031894.	1983942.	3635154.				
CAL	CalStd3 V-36369	6	3473262.	3046881.	2012475.	3648979.				
CAL	CalStd4 V-36369	7	3466350.	3018437.	1984628.	3664588.				
CAL	CalStd5 V-36369	8	3517023.	3050359.	2008970.	3729391.				
ICV	ICV V-363697	9	3586940.	3082395.	1986330.	3765920.				
LLICV	LLICV V-363702	10	3603045.	3122609.	2006856.	3794443.				
ICB	ICB V-363698	11	3576995.	3113551.	2016106.	3776943.				
ICSA	ICSA V-363699	12	3488684.	2852529.	1912351.	3630595.				
SMP	RINSE	13	3600171.	3166740.	2015379.	3816531.				
LRS	LRS V-363700	14	3536126.	2981103.	1962927.	3702172.				
SMP	RINSE	15	3614282.	3160212.	2007646.	3807805.				
SMP	RINSE	16	3536631.	3091154.	1971416.	3746292.				
CCV	CCV V-363701	17	3619922.	3097734.	1996179.	3792297.				
CCB	CCB V-363698	18	3630379.	3142396.	1994728.	3820737.				
MB	MB 97653	19	3635742.	3175931.	2011599.	3825263.				
LCS	LCS 97653	20	3706621.	3206923.	2136514.	3895634.				
MR	LCS MR 97653	21	3715379.	3221460.	2157584.	3911934.				
SMP	AD28000-001	22	3743905.	3136984.	2769931. *	3958064.				
SMP	AD27925-002	23	3936693.	3170959.	2281393.	4210022.				
SMP	AD27925-004	24	3762824.	3151466.	2579597. *	3976196.				
SMP	AD28006-002	25	3845301.	3091140.	2967712. *	4074578.				
SMP	AD28004-011	26	3602452.	2983163.	2374390.	3804067.				
SMP	AD28004-012	27	3559585.	2918141.	2315542.	3730535.				
SMP	RINSE	28	3567107.	3087346.	1952727.	3755458.				
CCV	CCV V-363701	29	3611723.	3079449.	1944806.	3786301.				
CCB	CCB V-363698	30	3617991.	3149651.	1963489.	3831582.				
SMP	AD28027-005	31	3924117.	3078419.	2990631. *	4164156.				
SMP	AD28016-001	32	3989037.	3158835.	2320176.	4151290.				
MR	AD28016-001	33	3904939.	3132671.	2299730.	4089786.				
SD	AD28016-001	34	3705253.	3164604.	2064262.	3921341.				
MS	AD28016-001	35	3809681.	3128277.	2250305.	3973426.				
MSD	AD28016-001	36	3859939.	3126542.	2272200.	4015275.				
PS	AD28016-001	37	3954602.	3090601.	2300410.	4115357.				
SMP	RINSE	38	3552741.	3162042.	1992006.	3760519.				
CCV	CCV V-363701	39	3599816.	3082819.	1977458.	3802386.				
CCB	CCB V-363698	40	3632014.	3106946.	1981695.	3827997.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S122221AN Sample ID: CalBlk V-363691 Sample Date 12/22/21 Sample Time: 09:19

IS ID:	Area	Area Limit		
Ho-2	2216253.46	1551377.422	-	2881129.498
In-2	787774.82	551442.374	-	1024107.266
Sc-2	95984.72	67189.304	-	124780.136
Tb-2	2256184.71	1579329.297	-	2933040.123

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area		Area	Area	Area	Area
ISBLK	CalBlk V-363691	3	2216253.	787774.8	95984.72	2256184.					
SMP	RINSE	1	2166071.	774775.2	91432.68	2200542.					
SMP	RINSE	2	2190823.	782887.6	93444.73	2235439.					
CAL	CalStd1 V-36369	4	2237108.	796532.6	97492.22	2267446.					
CAL	CalStd2 V-36369	5	2246291.	802146.4	96875.75	2276565.					
CAL	CalStd3 V-36369	6	2238551.	804432.1	98166.74	2266144.					
CAL	CalStd4 V-36369	7	2232024.	791046.6	95485.28	2251332.					
CAL	CalStd5 V-36369	8	2235412.	779904.3	95503.37	2253351.					
ICV	ICV V-363697	9	2246703.	786115.5	95206.32	2263612.					
LLICV	LLICV V-363702	10	2253197.	796935.2	95867.96	2297614.					
ICB	ICB V-363698	11	2250741.	792301.6	96810.26	2283446.					
ICSA	ICSA V-363699	12	2152679.	696921.6	89093.61	2167986.					
SMP	RINSE	13	2293789.	808310.0	96194.91	2323998.					
LRS	LRS V-363700	14	2209543.	738429.9	92640.56	2253639.					
SMP	RINSE	15	2289636.	808915.6	96248.12	2331278.					
SMP	RINSE	16	2305196.	807236.2	94887.40	2340160.					
CCV	CCV V-363701	17	2278426.	777923.9	93645.40	2293055.					
CCB	CCB V-363698	18	2263709.	776390.3	93293.95	2290295.					
MB	MB 97653	19	2288011.	784361.0	93160.62	2305892.					
LCS	LCS 97653	20	2349173.	817498.4	100906.5	2396412.					
MR	LCS MR 97653	21	2335252.	817438.2	102056.0	2371446.					
SMP	AD28000-001	22	2392850.	803762.4	135524.6	2419845.	*				
SMP	AD27925-002	23	2531371.	811202.2	109621.9	2585221.					
SMP	AD27925-004	24	2394820.	807539.4	126896.6	2429204.	*				
SMP	AD28006-002	25	2438315.	790478.7	147064.9	2479099.	*				
SMP	AD28004-011	26	2253530.	747882.0	114124.8	2276990.					
SMP	AD28004-012	27	2230039.	730926.6	110673.6	2257984.					
SMP	RINSE	28	2304604.	802853.1	93951.56	2350461.					
CCV	CCV V-363701	29	2255030.	766767.7	90187.57	2277809.					
CCB	CCB V-363698	30	2237650.	767901.9	89437.24	2290756.					
SMP	AD28027-005	31	2464894.	773456.6	147068.1	2503346.	*				
SMP	AD28016-001	32	2531511.	785891.6	109714.6	2533277.					
MR	AD28016-001	33	2463254.	789561.6	107855.5	2478310.					
SD	AD28016-001	34	2357218.	808309.7	97221.94	2396821.					
MS	AD28016-001	35	2413908.	778720.5	105413.3	2425804.					
MSD	AD28016-001	36	2425244.	774604.7	106254.3	2438323.					
PS	AD28016-001	37	2523051.	784294.5	109049.4	2517078.					
SMP	RINSE	38	2285856.	808584.0	95012.28	2340452.					
CCV	CCV V-363701	39	2256479.	765318.8	90828.52	2289939.					
CCB	CCB V-363698	40	2252122.	765502.9	90007.85	2300006.					

* Indicates Internal Standard Area outside of limits

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 1121801**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD28000-001	SB-015SS	Soil/Terracore	1	85	Percent			12/21/21	12/18/21	12/17/21

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-12686

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD28002-004	87	86.77615	Percent	1.32	12.89	11.35	12/21/21	BEENA	0.04	5
Sample	AD27867-003	81	81.32911	Percent	1.28	7.60	6.42	12/21/21	BEENA		
Sample	AD28000-001	85	85.02994	Percent	1.27	11.29	9.79	12/21/21	BEENA		
Sample	AD28001-001	90	90.50000	Percent	1.28	11.28	10.32	12/21/21	BEENA		
Sample	AD28001-002	92	92.40349	Percent	1.29	9.32	8.71	12/21/21	BEENA		
Sample	AD28002-001	80	80.14297	Percent	1.29	13.88	11.38	12/21/21	BEENA		
Sample	AD28002-002	88	88.07882	Percent	1.29	11.44	10.23	12/21/21	BEENA		
Sample	AD28002-003	89	89.21221	Percent	1.29	15.38	13.86	12/21/21	BEENA		
Sample	AD28002-004	87	86.74136	Percent	1.30	12.01	10.59	12/21/21	BEENA		
Sample	AD28002-005	89	89.16437	Percent	1.28	12.17	11.00	12/21/21	BEENA		
Sample	AD28002-006	95	95.12821	Percent	1.28	12.98	12.41	12/21/21	BEENA		
Sample	AD28002-007	90	89.86815	Percent	1.29	15.70	14.24	12/21/21	BEENA		
Sample	AD28003-001	94	93.94813	Percent	1.28	8.22	7.80	12/21/21	BEENA		
Sample	AD28003-002	87	86.52778	Percent	1.28	8.48	7.51	12/21/21	BEENA		
Sample	AD28003-003	94	94.15954	Percent	1.28	8.30	7.89	12/21/21	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
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Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 1/10/2022

Report Date: 2/9/2022

Deliverables: MDE-R

Lab ID: AD28235

Lab Project No: 2011002

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 2011002

Sample Summary

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project #: 2011002

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD28235-001	MW-001	Aqueous	1/7/2022	1/10/2022
AD28235-002	MW-002	Aqueous	1/7/2022	1/10/2022
AD28235-003	MW-004	Aqueous	1/7/2022	1/10/2022
AD28235-004	TMW-004D	Aqueous	1/7/2022	1/10/2022
AD28235-005	TMW-004S	Aqueous	1/7/2022	1/10/2022
AD28235-006	TMW-006S	Aqueous	1/7/2022	1/10/2022
AD28235-007	TMW-006D	Aqueous	1/7/2022	1/10/2022
AD28235-008	TMW-002	Aqueous	1/7/2022	1/10/2022
AD28235-009	TRIP BLANK	Aqueous	1/7/2022	1/10/2022

HC Case Narrative

Client: Intertek-PSI **HC Project:** 2011002
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 99263 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 99263, 99274 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 98456 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98456 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD28235-006 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98466 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Diesel Range Organics Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 98466 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Metals Analysis:

Data conforms to method requirements.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	2/10/22 Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2011002

Project: CSA WMATA 0444100

Lab#: AD28235-001 **Sample ID: MW-001**

Analyte	Units	RL	Result	Analytical Method
Arsenic	ug/l	2.0	3.2	EPA 6020B
Diesel Range Organics	ug/l	300	660	EPA 8015D
Total Petroleum Hydrocarbons	ug/l	300	770	EPA 8015D

Lab#: AD28235-002 **Sample ID: MW-002**

Analyte	Units	RL	Result	Analytical Method
Lead	ug/l	3.0	3.4	EPA 6020B
Diesel Range Organics	ug/l	300	4400	EPA 8015D
Total Petroleum Hydrocarbons	ug/l	300	4900	EPA 8015D
Cyclohexane	ug/l	1.0	1.3	EPA 8260D
Isopropylbenzene	ug/l	1.0	1.6	EPA 8260D
Methylcyclohexane	ug/l	1.0	2.2	EPA 8260D

Lab#: AD28235-003 **Sample ID: MW-004**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	ug/l	300	990	EPA 8015D
Total Petroleum Hydrocarbons	ug/l	300	1200	EPA 8015D
4-Methyl-2-pentanone	ug/l	1.0	1.4	EPA 8260D
Carbon disulfide	ug/l	1.0	1.1	EPA 8260D
Cyclohexane	ug/l	1.0	1.4	EPA 8260D
Isopropylbenzene	ug/l	1.0	1.5	EPA 8260D
Methylcyclohexane	ug/l	1.0	3.0	EPA 8260D

Lab#: AD28235-004 **Sample ID: TMW-004D**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	5.0	17	EPA 8260D
Tetrachloroethene	ug/l	5.0	690	EPA 8260D
Trichloroethene	ug/l	5.0	48	EPA 8260D

Lab#: AD28235-005 **Sample ID: TMW-004S**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	5.0	14	EPA 8260D
Tetrachloroethene	ug/l	5.0	520	EPA 8260D
Trichloroethene	ug/l	5.0	38	EPA 8260D

Lab#: AD28235-006 **Sample ID: TMW-006S**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	90	EPA 8260D
Tetrachloroethene	ug/l	1.0	100	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	4.5	EPA 8260D
Trichloroethene	ug/l	1.0	150	EPA 8260D
Vinyl chloride	ug/l	1.0	9.2	EPA 8260D

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2011002

Project: CSA WMATA 0444100

Lab#: AD28235-007 **Sample ID: TMW-006D**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	170	EPA 8260D
Tetrachloroethene	ug/l	1.0	98	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	6.2	EPA 8260D
Trichloroethene	ug/l	1.0	33	EPA 8260D
Vinyl chloride	ug/l	1.0	22	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI **HC Project #:** 2011002

Project: CSA WMATA 0444100

Sample ID: MW-001 **Collection Date:** 1/7/2022
Lab#: AD28235-001 **Receipt Date:** 1/10/2022
Matrix: Aqueous

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	660

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	ug/l	50	ND

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	3.2
Cadmium	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.1	ND
1,2-Diphenylhydrazine	1	ug/l	1.1	ND
1,4-Dioxane	1	ug/l	0.29	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.1	ND
2,4,5-Trichlorophenol	1	ug/l	1.1	ND
2,4,6-Trichlorophenol	1	ug/l	1.1	ND
2,4-Dichlorophenol	1	ug/l	0.29	ND
2,4-Dimethylphenol	1	ug/l	0.32	ND
2,4-Dinitrophenol	1	ug/l	5.7	ND
2,4-Dinitrotoluene	1	ug/l	1.1	ND
2,6-Dinitrotoluene	1	ug/l	1.1	ND
2-Chloronaphthalene	1	ug/l	1.1	ND
2-Chlorophenol	1	ug/l	1.1	ND
2-Methylnaphthalene	1	ug/l	1.1	ND
2-Methylphenol	1	ug/l	0.29	ND
2-Nitroaniline	1	ug/l	1.1	ND
2-Nitrophenol	1	ug/l	1.1	ND
3&4-Methylphenol	1	ug/l	0.29	ND
3,3'-Dichlorobenzidine	1	ug/l	1.1	ND
3-Nitroaniline	1	ug/l	1.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	5.7	ND
4-Bromophenyl-phenylether	1	ug/l	1.1	ND
4-Chloro-3-methylphenol	1	ug/l	1.1	ND
4-Chloroaniline	1	ug/l	0.29	ND
4-Chlorophenyl-phenylether	1	ug/l	1.1	ND
4-Nitroaniline	1	ug/l	1.1	ND
4-Nitrophenol	1	ug/l	1.1	ND
Acenaphthene	1	ug/l	1.1	ND
Acenaphthylene	1	ug/l	1.1	ND

Sample ID: MW-001	**Collection Date:** 1/7/2022
Lab#: AD28235-001	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Acetophenone	1	ug/l	1.1	ND
Anthracene	1	ug/l	1.1	ND
Atrazine	1	ug/l	1.1	ND
Benzaldehyde	1	ug/l	1.1	ND
Benzidine	1	ug/l	5.7	ND
Benzo[a]anthracene	1	ug/l	1.1	ND
Benzo[a]pyrene	1	ug/l	1.1	ND
Benzo[b]fluoranthene	1	ug/l	1.1	ND
Benzo[g,h,i]perylene	1	ug/l	0.48	ND
Benzo[k]fluoranthene	1	ug/l	1.1	ND
Benzyl alcohol	1	ug/l	1.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.29	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.1	ND
Butylbenzylphthalate	1	ug/l	1.1	ND
Caprolactam	1	ug/l	1.1	ND
Carbazole	1	ug/l	1.1	ND
Chrysene	1	ug/l	1.1	ND
Dibenzo[a,h]anthracene	1	ug/l	1.1	ND
Dibenzofuran	1	ug/l	0.39	ND
Diethylphthalate	1	ug/l	1.1	ND
Dimethylphthalate	1	ug/l	1.1	ND
Di-n-butylphthalate	1	ug/l	0.62	ND
Di-n-octylphthalate	1	ug/l	1.1	ND
Fluoranthene	1	ug/l	1.1	ND
Fluorene	1	ug/l	1.1	ND
Hexachlorobenzene	1	ug/l	1.1	ND
Hexachlorobutadiene	1	ug/l	1.1	ND
Hexachlorocyclopentadiene	1	ug/l	1.1	ND
Hexachloroethane	1	ug/l	1.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.1	ND
Isophorone	1	ug/l	1.1	ND
Naphthalene	1	ug/l	0.29	ND
Nitrobenzene	1	ug/l	1.1	ND
N-Nitrosodimethylamine	1	ug/l	1.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.37	ND
N-Nitrosodiphenylamine	1	ug/l	1.1	ND
Pentachlorophenol	1	ug/l	5.7	ND
Phenanthrene	1	ug/l	1.1	ND
Phenol	1	ug/l	1.1	ND
Pyrene	1	ug/l	1.1	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**ug/l**	**300**	**770**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND

Sample ID: MW-001	**Collection Date:** 1/7/2022
Lab#: AD28235-001	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-002
Lab#: AD28235-002
Matrix: Aqueous

Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	4400

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	ug/l	50	ND

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Cadmium	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	3.4

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
1,4-Dioxane	1	ug/l	0.50	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.55	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzidine	1	ug/l	9.9	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND

Sample ID: MW-002	**Collection Date:** 1/7/2022
Lab#: AD28235-002	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	0.85	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Benzyl alcohol	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.68	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	1.1	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.64	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**ug/l**	**300**	**4900**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND

Sample ID: MW-002				Collection Date: 1/7/2022	
Lab#: AD28235-002				Receipt Date: 1/10/2022	
Matrix: Aqueous					
1,4-Dioxane	1	ug/l	50	ND	
2-Butanone	1	ug/l	1.0	ND	
2-Hexanone	1	ug/l	1.0	ND	
4-Methyl-2-pentanone	1	ug/l	1.0	ND	
Acetone	1	ug/l	5.0	ND	
Acrolein	1	ug/l	5.0	ND	
Acrylonitrile	1	ug/l	1.0	ND	
Benzene	1	ug/l	0.50	ND	
Bromochloromethane	1	ug/l	1.0	ND	
Bromodichloromethane	1	ug/l	1.0	ND	
Bromoform	1	ug/l	1.0	ND	
Bromomethane	1	ug/l	1.0	ND	
Carbon disulfide	1	ug/l	1.0	ND	
Carbon tetrachloride	1	ug/l	1.0	ND	
Chlorobenzene	1	ug/l	1.0	ND	
Chloroethane	1	ug/l	1.0	ND	
Chloroform	1	ug/l	2.0	ND	
Chloromethane	1	ug/l	1.0	ND	
cis-1,2-Dichloroethene	1	ug/l	1.0	ND	
cis-1,3-Dichloropropene	1	ug/l	1.0	ND	
Cyclohexane	1	ug/l	1.0	1.3	
Dibromochloromethane	1	ug/l	1.0	ND	
Dichlorodifluoromethane	1	ug/l	1.0	ND	
Ethylbenzene	1	ug/l	1.0	ND	
Isopropylbenzene	1	ug/l	1.0	1.6	
m&p-Xylenes	1	ug/l	1.0	ND	
Methyl Acetate	1	ug/l	1.0	ND	
Methylcyclohexane	1	ug/l	1.0	2.2	
Methylene chloride	1	ug/l	1.0	ND	
Methyl-t-butyl ether	1	ug/l	0.50	ND	
o-Xylene	1	ug/l	1.0	ND	
Styrene	1	ug/l	1.0	ND	
t-Butyl Alcohol	1	ug/l	5.0	ND	
Tetrachloroethene	1	ug/l	1.0	ND	
Toluene	1	ug/l	1.0	ND	
trans-1,2-Dichloroethene	1	ug/l	1.0	ND	
trans-1,3-Dichloropropene	1	ug/l	1.0	ND	
Trichloroethene	1	ug/l	1.0	ND	
Trichlorofluoromethane	1	ug/l	1.0	ND	
Vinyl chloride	1	ug/l	1.0	ND	
Xylenes (Total)	1	ug/l	1.0	ND	

Sample ID: MW-004
Lab#: AD28235-003
Matrix: Aqueous

Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	990

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

RCRA Metals 6010D

Analyte	DF	Units	RL	Result
Chromium	1	ug/l	50	ND

RCRA Metals ICP-MS 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Cadmium	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
1,4-Dioxane	1	ug/l	0.50	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.55	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzidine	1	ug/l	9.9	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND

Sample ID: MW-004 **Collection Date:** 1/7/2022
Lab#: AD28235-003 **Receipt Date:** 1/10/2022
Matrix: Aqueous

Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	0.85	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Benzyl alcohol	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.68	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	1.1	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.64	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**ug/l**	**300**	**1200**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND

Sample ID:	**MW-004**		**Collection Date:**	**1/7/2022**
Lab#:	**AD28235-003**		**Receipt Date:**	**1/10/2022**
Matrix:	**Aqueous**			

1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	**1**	**ug/l**	**1.0**	**1.4**
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	**1**	**ug/l**	**1.0**	**1.1**
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	**1**	**ug/l**	**1.0**	**1.4**
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	**1**	**ug/l**	**1.0**	**1.5**
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	**1**	**ug/l**	**1.0**	**3.0**
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-004D
Lab#: AD28235-004
Matrix: Aqueous

Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
1,4-Dioxane	1	ug/l	0.50	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.55	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzidine	1	ug/l	9.9	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	0.85	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Benzyl alcohol	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.68	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-004D	**Collection Date:** 1/7/2022
Lab#: AD28235-004	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.64	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	5	ug/l	5.0	ND
1,1,2,2-Tetrachloroethane	5	ug/l	5.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/l	5.0	ND
1,1,2-Trichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethene	5	ug/l	5.0	ND
1,2,3-Trichlorobenzene	5	ug/l	5.0	ND
1,2,4-Trichlorobenzene	5	ug/l	5.0	ND
1,2-Dibromo-3-chloropropane	5	ug/l	5.0	ND
1,2-Dibromoethane	5	ug/l	5.0	ND
1,2-Dichlorobenzene	5	ug/l	5.0	ND
1,2-Dichloroethane	5	ug/l	3.2	ND
1,2-Dichloropropane	5	ug/l	5.0	ND
1,3-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dioxane	5	ug/l	250	ND
2-Butanone	5	ug/l	5.0	ND
2-Hexanone	5	ug/l	5.0	ND
4-Methyl-2-pentanone	5	ug/l	5.0	ND
Acetone	5	ug/l	25	ND
Acrolein	5	ug/l	25	ND
Acrylonitrile	5	ug/l	5.0	ND
Benzene	5	ug/l	2.5	ND
Bromochloromethane	5	ug/l	5.0	ND
Bromodichloromethane	5	ug/l	5.0	ND
Bromoform	5	ug/l	5.0	ND
Bromomethane	5	ug/l	5.0	ND
Carbon disulfide	5	ug/l	5.0	ND
Carbon tetrachloride	5	ug/l	5.0	ND
Chlorobenzene	5	ug/l	5.0	ND
Chloroethane	5	ug/l	5.0	ND
Chloroform	5	ug/l	9.8	ND
Chloromethane	5	ug/l	5.0	ND
cis-1,2-Dichloroethene	**5**	**ug/l**	**5.0**	**17**
cis-1,3-Dichloropropene	5	ug/l	5.0	ND
Cyclohexane	5	ug/l	5.0	ND

Sample ID:	**TMW-004D**
Lab#:	**AD28235-004**
Matrix:	**Aqueous**
Collection Date:	**1/7/2022**
Receipt Date:	**1/10/2022**

Dibromochloromethane	5	ug/l	5.0	ND
Dichlorodifluoromethane	5	ug/l	5.0	ND
Ethylbenzene	5	ug/l	5.0	ND
Isopropylbenzene	5	ug/l	5.0	ND
m&p-Xylenes	5	ug/l	5.0	ND
Methyl Acetate	5	ug/l	5.0	ND
Methylcyclohexane	5	ug/l	5.0	ND
Methylene chloride	5	ug/l	5.0	ND
Methyl-t-butyl ether	5	ug/l	2.5	ND
o-Xylene	5	ug/l	5.0	ND
Styrene	5	ug/l	5.0	ND
t-Butyl Alcohol	5	ug/l	25	ND
Tetrachloroethene	**5**	**ug/l**	**5.0**	**690**
Toluene	5	ug/l	5.0	ND
trans-1,2-Dichloroethene	5	ug/l	5.0	ND
trans-1,3-Dichloropropene	5	ug/l	5.0	ND
Trichloroethene	**5**	**ug/l**	**5.0**	**48**
Trichlorofluoromethane	5	ug/l	5.0	ND
Vinyl chloride	5	ug/l	5.0	ND
Xylenes (Total)	5	ug/l	5.0	ND

Sample ID: TMW-004S
Lab#: AD28235-005
Matrix: Aqueous

Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.1	ND
1,2-Diphenylhydrazine	1	ug/l	1.1	ND
1,4-Dioxane	1	ug/l	0.29	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.1	ND
2,4,5-Trichlorophenol	1	ug/l	1.1	ND
2,4,6-Trichlorophenol	1	ug/l	1.1	ND
2,4-Dichlorophenol	1	ug/l	0.29	ND
2,4-Dimethylphenol	1	ug/l	0.32	ND
2,4-Dinitrophenol	1	ug/l	5.7	ND
2,4-Dinitrotoluene	1	ug/l	1.1	ND
2,6-Dinitrotoluene	1	ug/l	1.1	ND
2-Chloronaphthalene	1	ug/l	1.1	ND
2-Chlorophenol	1	ug/l	1.1	ND
2-Methylnaphthalene	1	ug/l	1.1	ND
2-Methylphenol	1	ug/l	0.29	ND
2-Nitroaniline	1	ug/l	1.1	ND
2-Nitrophenol	1	ug/l	1.1	ND
3&4-Methylphenol	1	ug/l	0.29	ND
3,3'-Dichlorobenzidine	1	ug/l	1.1	ND
3-Nitroaniline	1	ug/l	1.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	5.7	ND
4-Bromophenyl-phenylether	1	ug/l	1.1	ND
4-Chloro-3-methylphenol	1	ug/l	1.1	ND
4-Chloroaniline	1	ug/l	0.29	ND
4-Chlorophenyl-phenylether	1	ug/l	1.1	ND
4-Nitroaniline	1	ug/l	1.1	ND
4-Nitrophenol	1	ug/l	1.1	ND
Acenaphthene	1	ug/l	1.1	ND
Acenaphthylene	1	ug/l	1.1	ND
Acetophenone	1	ug/l	1.1	ND
Anthracene	1	ug/l	1.1	ND
Atrazine	1	ug/l	1.1	ND
Benzaldehyde	1	ug/l	1.1	ND
Benzidine	1	ug/l	5.7	ND
Benzo[a]anthracene	1	ug/l	1.1	ND
Benzo[a]pyrene	1	ug/l	1.1	ND
Benzo[b]fluoranthene	1	ug/l	1.1	ND
Benzo[g,h,i]perylene	1	ug/l	0.48	ND
Benzo[k]fluoranthene	1	ug/l	1.1	ND
Benzyl alcohol	1	ug/l	1.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.29	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.1	ND
Butylbenzylphthalate	1	ug/l	1.1	ND
Caprolactam	1	ug/l	1.1	ND
Carbazole	1	ug/l	1.1	ND
Chrysene	1	ug/l	1.1	ND
Dibenzo[a,h]anthracene	1	ug/l	1.1	ND
Dibenzofuran	1	ug/l	0.39	ND
Diethylphthalate	1	ug/l	1.1	ND
Dimethylphthalate	1	ug/l	1.1	ND
Di-n-butylphthalate	1	ug/l	0.62	ND

Sample ID: TMW-004S	**Collection Date:** 1/7/2022
Lab#: AD28235-005	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	1.1	ND
Fluoranthene	1	ug/l	1.1	ND
Fluorene	1	ug/l	1.1	ND
Hexachlorobenzene	1	ug/l	1.1	ND
Hexachlorobutadiene	1	ug/l	1.1	ND
Hexachlorocyclopentadiene	1	ug/l	1.1	ND
Hexachloroethane	1	ug/l	1.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.1	ND
Isophorone	1	ug/l	1.1	ND
Naphthalene	1	ug/l	0.29	ND
Nitrobenzene	1	ug/l	1.1	ND
N-Nitrosodimethylamine	1	ug/l	1.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.37	ND
N-Nitrosodiphenylamine	1	ug/l	1.1	ND
Pentachlorophenol	1	ug/l	5.7	ND
Phenanthrene	1	ug/l	1.1	ND
Phenol	1	ug/l	1.1	ND
Pyrene	1	ug/l	1.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	5	ug/l	5.0	ND
1,1,2,2-Tetrachloroethane	5	ug/l	5.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/l	5.0	ND
1,1,2-Trichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethene	5	ug/l	5.0	ND
1,2,3-Trichlorobenzene	5	ug/l	5.0	ND
1,2,4-Trichlorobenzene	5	ug/l	5.0	ND
1,2-Dibromo-3-chloropropane	5	ug/l	5.0	ND
1,2-Dibromoethane	5	ug/l	5.0	ND
1,2-Dichlorobenzene	5	ug/l	5.0	ND
1,2-Dichloroethane	5	ug/l	3.2	ND
1,2-Dichloropropane	5	ug/l	5.0	ND
1,3-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dioxane	5	ug/l	250	ND
2-Butanone	5	ug/l	5.0	ND
2-Hexanone	5	ug/l	5.0	ND
4-Methyl-2-pentanone	5	ug/l	5.0	ND
Acetone	5	ug/l	25	ND
Acrolein	5	ug/l	25	ND
Acrylonitrile	5	ug/l	5.0	ND
Benzene	5	ug/l	2.5	ND
Bromochloromethane	5	ug/l	5.0	ND
Bromodichloromethane	5	ug/l	5.0	ND
Bromoform	5	ug/l	5.0	ND
Bromomethane	5	ug/l	5.0	ND
Carbon disulfide	5	ug/l	5.0	ND
Carbon tetrachloride	5	ug/l	5.0	ND
Chlorobenzene	5	ug/l	5.0	ND
Chloroethane	5	ug/l	5.0	ND
Chloroform	5	ug/l	9.8	ND
Chloromethane	5	ug/l	5.0	ND
cis-1,2-Dichloroethene	**5**	**ug/l**	**5.0**	**14**
cis-1,3-Dichloropropene	5	ug/l	5.0	ND
Cyclohexane	5	ug/l	5.0	ND

Sample ID: TMW-004S				Collection Date: 1/7/2022	
Lab#: AD28235-005				Receipt Date: 1/10/2022	
Matrix: Aqueous					
Dibromochloromethane	5	ug/l	5.0	ND	
Dichlorodifluoromethane	5	ug/l	5.0	ND	
Ethylbenzene	5	ug/l	5.0	ND	
Isopropylbenzene	5	ug/l	5.0	ND	
m&p-Xylenes	5	ug/l	5.0	ND	
Methyl Acetate	5	ug/l	5.0	ND	
Methylcyclohexane	5	ug/l	5.0	ND	
Methylene chloride	5	ug/l	5.0	ND	
Methyl-t-butyl ether	5	ug/l	2.5	ND	
o-Xylene	5	ug/l	5.0	ND	
Styrene	5	ug/l	5.0	ND	
t-Butyl Alcohol	5	ug/l	25	ND	
Tetrachloroethene	**5**	**ug/l**	**5.0**	**520**	
Toluene	5	ug/l	5.0	ND	
trans-1,2-Dichloroethene	5	ug/l	5.0	ND	
trans-1,3-Dichloropropene	5	ug/l	5.0	ND	
Trichloroethene	**5**	**ug/l**	**5.0**	**38**	
Trichlorofluoromethane	5	ug/l	5.0	ND	
Vinyl chloride	5	ug/l	5.0	ND	
Xylenes (Total)	5	ug/l	5.0	ND	

Sample ID: TMW-006S
Lab#: AD28235-006
Matrix: Aqueous

Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.2	ND
1,2-Diphenylhydrazine	1	ug/l	1.2	ND
1,4-Dioxane	1	ug/l	0.30	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.2	ND
2,4,5-Trichlorophenol	1	ug/l	1.2	ND
2,4,6-Trichlorophenol	1	ug/l	1.2	ND
2,4-Dichlorophenol	1	ug/l	0.30	ND
2,4-Dimethylphenol	1	ug/l	0.33	ND
2,4-Dinitrophenol	1	ug/l	6.1	ND
2,4-Dinitrotoluene	1	ug/l	1.2	ND
2,6-Dinitrotoluene	1	ug/l	1.2	ND
2-Chloronaphthalene	1	ug/l	1.2	ND
2-Chlorophenol	1	ug/l	1.2	ND
2-Methylnaphthalene	1	ug/l	1.2	ND
2-Methylphenol	1	ug/l	0.30	ND
2-Nitroaniline	1	ug/l	1.2	ND
2-Nitrophenol	1	ug/l	1.2	ND
3&4-Methylphenol	1	ug/l	0.30	ND
3,3'-Dichlorobenzidine	1	ug/l	1.2	ND
3-Nitroaniline	1	ug/l	1.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	6.1	ND
4-Bromophenyl-phenylether	1	ug/l	1.2	ND
4-Chloro-3-methylphenol	1	ug/l	1.2	ND
4-Chloroaniline	1	ug/l	0.30	ND
4-Chlorophenyl-phenylether	1	ug/l	1.2	ND
4-Nitroaniline	1	ug/l	1.2	ND
4-Nitrophenol	1	ug/l	1.2	ND
Acenaphthene	1	ug/l	1.2	ND
Acenaphthylene	1	ug/l	1.2	ND
Acetophenone	1	ug/l	1.2	ND
Anthracene	1	ug/l	1.2	ND
Atrazine	1	ug/l	1.2	ND
Benzaldehyde	1	ug/l	1.2	ND
Benzidine	1	ug/l	6.0	ND
Benzo[a]anthracene	1	ug/l	1.2	ND
Benzo[a]pyrene	1	ug/l	1.2	ND
Benzo[b]fluoranthene	1	ug/l	1.2	ND
Benzo[g,h,i]perylene	1	ug/l	0.51	ND
Benzo[k]fluoranthene	1	ug/l	1.2	ND
Benzyl alcohol	1	ug/l	1.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.30	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.2	ND
Butylbenzylphthalate	1	ug/l	1.2	ND
Caprolactam	1	ug/l	1.2	ND
Carbazole	1	ug/l	1.2	ND
Chrysene	1	ug/l	1.2	ND
Dibenzo[a,h]anthracene	1	ug/l	1.2	ND
Dibenzofuran	1	ug/l	0.41	ND
Diethylphthalate	1	ug/l	1.2	ND
Dimethylphthalate	1	ug/l	1.2	ND
Di-n-butylphthalate	1	ug/l	0.66	ND

Sample ID: TMW-006S	**Collection Date:** 1/7/2022
Lab#: AD28235-006	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	1.2	ND
Fluoranthene	1	ug/l	1.2	ND
Fluorene	1	ug/l	1.2	ND
Hexachlorobenzene	1	ug/l	1.2	ND
Hexachlorobutadiene	1	ug/l	1.2	ND
Hexachlorocyclopentadiene	1	ug/l	1.2	ND
Hexachloroethane	1	ug/l	1.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.2	ND
Isophorone	1	ug/l	1.2	ND
Naphthalene	1	ug/l	0.30	ND
Nitrobenzene	1	ug/l	1.2	ND
N-Nitrosodimethylamine	1	ug/l	1.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.39	ND
N-Nitrosodiphenylamine	1	ug/l	1.2	ND
Pentachlorophenol	1	ug/l	6.1	ND
Phenanthrene	1	ug/l	1.2	ND
Phenol	1	ug/l	1.2	ND
Pyrene	1	ug/l	1.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**90**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-006S**
Lab#:	**AD28235-006**
Matrix:	**Aqueous**
Collection Date:	**1/7/2022**
Receipt Date:	**1/10/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**100**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**4.5**
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**150**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	**1**	**ug/l**	**1.0**	**9.2**
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-006D
Lab#: AD28235-007
Matrix: Aqueous

Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
1,2-Diphenylhydrazine	1	ug/l	2.2	ND
1,4-Dioxane	1	ug/l	0.56	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.56	ND
2,4-Dimethylphenol	1	ug/l	0.61	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzidine	1	ug/l	11	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	0.94	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
Benzyl alcohol	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.76	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	1.2	ND

Sample ID: TMW-006D	**Collection Date:** 1/7/2022
Lab#: AD28235-007	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitrosodimethylamine	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.71	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**170**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-006D**
Lab#:	**AD28235-007**
Matrix:	**Aqueous**
Collection Date:	**1/7/2022**
Receipt Date:	**1/10/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**98**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**6.2**
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**33**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	**1**	**ug/l**	**1.0**	**22**
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-002
Lab#: AD28235-008
Matrix: Aqueous

Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.2	ND
1,2-Diphenylhydrazine	1	ug/l	1.2	ND
1,4-Dioxane	1	ug/l	0.29	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.2	ND
2,4,5-Trichlorophenol	1	ug/l	1.2	ND
2,4,6-Trichlorophenol	1	ug/l	1.2	ND
2,4-Dichlorophenol	1	ug/l	0.29	ND
2,4-Dimethylphenol	1	ug/l	0.32	ND
2,4-Dinitrophenol	1	ug/l	5.9	ND
2,4-Dinitrotoluene	1	ug/l	1.2	ND
2,6-Dinitrotoluene	1	ug/l	1.2	ND
2-Chloronaphthalene	1	ug/l	1.2	ND
2-Chlorophenol	1	ug/l	1.2	ND
2-Methylnaphthalene	1	ug/l	1.2	ND
2-Methylphenol	1	ug/l	0.29	ND
2-Nitroaniline	1	ug/l	1.2	ND
2-Nitrophenol	1	ug/l	1.2	ND
3&4-Methylphenol	1	ug/l	0.29	ND
3,3'-Dichlorobenzidine	1	ug/l	1.2	ND
3-Nitroaniline	1	ug/l	1.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	5.9	ND
4-Bromophenyl-phenylether	1	ug/l	1.2	ND
4-Chloro-3-methylphenol	1	ug/l	1.2	ND
4-Chloroaniline	1	ug/l	0.29	ND
4-Chlorophenyl-phenylether	1	ug/l	1.2	ND
4-Nitroaniline	1	ug/l	1.2	ND
4-Nitrophenol	1	ug/l	1.2	ND
Acenaphthene	1	ug/l	1.2	ND
Acenaphthylene	1	ug/l	1.2	ND
Acetophenone	1	ug/l	1.2	ND
Anthracene	1	ug/l	1.2	ND
Atrazine	1	ug/l	1.2	ND
Benzaldehyde	1	ug/l	1.2	ND
Benzidine	1	ug/l	5.8	ND
Benzo[a]anthracene	1	ug/l	1.2	ND
Benzo[a]pyrene	1	ug/l	1.2	ND
Benzo[b]fluoranthene	1	ug/l	1.2	ND
Benzo[g,h,i]perylene	1	ug/l	0.50	ND
Benzo[k]fluoranthene	1	ug/l	1.2	ND
Benzyl alcohol	1	ug/l	1.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.29	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.2	ND
Butylbenzylphthalate	1	ug/l	1.2	ND
Caprolactam	1	ug/l	1.2	ND
Carbazole	1	ug/l	1.2	ND
Chrysene	1	ug/l	1.2	ND
Dibenzo[a,h]anthracene	1	ug/l	1.2	ND
Dibenzofuran	1	ug/l	0.40	ND
Diethylphthalate	1	ug/l	1.2	ND
Dimethylphthalate	1	ug/l	1.2	ND
Di-n-butylphthalate	1	ug/l	0.64	ND

Sample ID: TMW-002	**Collection Date:** 1/7/2022
Lab#: AD28235-008	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	1.2	ND
Fluoranthene	1	ug/l	1.2	ND
Fluorene	1	ug/l	1.2	ND
Hexachlorobenzene	1	ug/l	1.2	ND
Hexachlorobutadiene	1	ug/l	1.2	ND
Hexachlorocyclopentadiene	1	ug/l	1.2	ND
Hexachloroethane	1	ug/l	1.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.2	ND
Isophorone	1	ug/l	1.2	ND
Naphthalene	1	ug/l	0.29	ND
Nitrobenzene	1	ug/l	1.2	ND
N-Nitrosodimethylamine	1	ug/l	1.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.38	ND
N-Nitrosodiphenylamine	1	ug/l	1.2	ND
Pentachlorophenol	1	ug/l	5.9	ND
Phenanthrene	1	ug/l	1.2	ND
Phenol	1	ug/l	1.2	ND
Pyrene	1	ug/l	1.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-002**
Lab#:	**AD28235-008**
Matrix:	**Aqueous**
Collection Date:	**1/7/2022**
Receipt Date:	**1/10/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TRIP BLANK
Lab#: AD28235-009
Matrix: Aqueous
Collection Date: 1/7/2022
Receipt Date: 1/10/2022

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND

Sample ID: TRIP BLANK	**Collection Date:** 1/7/2022
Lab#: AD28235-009	**Receipt Date:** 1/10/2022
Matrix: Aqueous	

Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 2011002

Project: CSA WMATA 0444100

Lab#: AD28235-001 **Sample ID: MW-001**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	01/12/22 08:00	DYR	EPA 8015D	1/13/22 12:06	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	1/11/22 17:46	SG
RCRA Metals 6010D	3005&10/3050	01/11/22 13:25	ksaez	EPA 6010D	1/12/22 16:11	CJAG01/13
RCRA Metals ICP-MS 6020B	3005&10/3050	01/11/22 13:25	ksaez	EPA 6020B	1/11/22 20:23	PC
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 10:21	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	01/12/22 08:00	DYR	EPA 8015D	1/13/22 12:06	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/10/22 23:01	SG

Lab#: AD28235-002 **Sample ID: MW-002**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	01/12/22 08:00	DYR	EPA 8015D	1/13/22 12:35	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	1/11/22 18:04	SG
RCRA Metals 6010D	3005&10/3050	01/11/22 13:25	ksaez	EPA 6010D	1/12/22 16:49	CJAG01/13
RCRA Metals ICP-MS 6020B	3005&10/3050	01/11/22 13:25	ksaez	EPA 6020B	1/11/22 21:06	PC
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 10:44	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	01/12/22 08:00	DYR	EPA 8015D	1/13/22 12:35	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/10/22 23:19	SG

Lab#: AD28235-003 **Sample ID: MW-004**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	01/12/22 08:00	DYR	EPA 8015D	1/13/22 13:04	ABM/AH
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	1/11/22 18:20	SG
RCRA Metals 6010D	3005&10/3050	01/11/22 13:25	ksaez	EPA 6010D	1/12/22 16:53	CJAG01/13
RCRA Metals ICP-MS 6020B	3005&10/3050	01/11/22 13:25	ksaez	EPA 6020B	1/11/22 21:11	PC
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 11:06	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	01/12/22 08:00	DYR	EPA 8015D	1/13/22 13:04	ABM/AH
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/11/22 11:17	JM

Lab#: AD28235-004 **Sample ID: TMW-004D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 11:29	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/11/22 12:36	JM

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 2011002

Project: CSA WMATA 0444100

Lab#: AD28235-005 **Sample ID: TMW-004S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 11:52	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/11/22 17:13	JM

Lab#: AD28235-006 **Sample ID: TMW-006S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 12:15	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/11/22 11:37	JM

Lab#: AD28235-007 **Sample ID: TMW-006D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 12:38	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/11/22 11:57	JM

Lab#: AD28235-008 **Sample ID: TMW-002**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/11/22 09:13	AT	EPA 8270E	1/12/22 13:00	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/11/22 10:37	JM

Lab#: AD28235-009 **Sample ID: TRIP BLANK**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/10/22 18:59	SG

Chain of Custody

2011002 0035

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 201002

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek-PSI
Address: 2930 Eskridge Road, Fairfax VA 22031
1b) Email/Cell/Fax/Ph: andres.acosta@intertek.com
1c) Send Invoice to: CC rinzo.renthlei@intertek.com
1d) Send Report to:

Project Information

2a) Project: CSA WMATA 0444100
2b) Project Mgr: RINZO RENTHLEI
2c) Project Location (City/State): WMATA 14th St NW
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # A028235

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TPH-DRO/GRO/BTEX	Arsenic, Cadmium, Chromium, Lead	8260 VOC	8270 SVOC	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	MW-001	GW	1/6/22	12:15			X	X	X	X	4				6		#1		
-002	MW-002	GW	1/6/22	14:35			X	X	X	X	4				6		-1		
-003	MW-004	GW	1/6/22	15:55			X	X	X	X	4				6		-1		
	~~MW-003~~	~~GW~~	~~1/6/22~~				~~X~~	~~X~~	~~X~~	~~X~~	~~8~~				~~12~~		~~2~~		
-004	TMW-004D	GW	JAN	10:55					X	X	3				3				
-005	TMW-004S	GW	7th	11:22					X	X	3				3				
-006	TMW-006S	GW	↓	12:14					X	X	3				3				
-007	TMW-006D	GW		12:57					X	X	3				3				
-008	TMW-002	GW	↓	2:05					X	X	8				8				

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FED EX		
FED EX	[signature]	1/10/22	11:00

11) Sampler (print name): RINZO RENTHLEI Date: 1/7/22

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.1 2.9 3.0

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: INTERTEK-VA **HC Project #:** 2011002
Project: CSA WMATA 0444100

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csmith192.168.1.137
1/18/2022 11:49:47 AM

Per Rinzova Renthlei, The TB is to be analyzed and the sample collection time for sample -008 is 14:05.

CONDITION UPON RECEIPT

Batch Number AD28235 Entered By: maxwell
Date Entered 1/10/2022 12:43:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.1,2.9,3.0
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	No	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking SAMPLE TMW-002 BN LIMITED VOLUME ONE BROKE IN COOLER
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	No	Do the contents match the COC? If no, specify SAMPLE MW-001,MW-002,MW-004 TPH,DRO PRESERVED WITH HCL AT LAB
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	Yes	Other comments ...Specify (TB date, sample matrix, any missing info, etc.) TRIP BLANK DATE 12/27/21 RECEIVED NOT ON COC
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

PRESERVATION DOCUMENT

Batch Number AD28235 Entered By: maxwell

Date Entered 1/10/2022 12:49:00 PM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD28235-001	40ML	G	VO	HCL	253057	1	HC160347
AD28235-001	1L	P	METALS	HNO3	282671	1	HC160347
AD28235-001	1L	G	TPH	HCL	267411	1	HC160347
AD28235-001	1L	G	DRO	HCL	267411	1	HC160347
AD28235-002	40ML	G	VO	HCL	253057	1	HC160347
AD28235-002	1L	P	METALS	HNO3	282671	1	HC160347
AD28235-002	1L	G	TPH	HCL	267411	1	HC160347
AD28235-002	1L	G	DRO	HCL	267411	1	HC160347
AD28235-003	40ML	G	VO	HCL	253057	1	HC160347
AD28235-003	1L	P	METALS	HNO3	282671	1	HC160347
AD28235-003	1L	G	TPH	HCL	267411	1	HC160347
AD28235-003	1L	G	DRO	HCL	267411	1	HC160347
AD28235-004	40ML	G	VO	HCL	253057	1	HC160347
AD28235-005	40ML	G	VO	HCL	253057	1	HC160347
AD28235-006	40ML	G	VO	HCL	253057	1	HC160347
AD28235-007	40ML	G	VO	HCL	253057	1	HC160347
AD28235-008	40ML	G	VO	HCL	253057	1	HC160347
AD28235-009	40ML	G	VO	HCL	253057	1	HC160347

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD28235-001	01/10/22 11:00	MAXW	0	M	Received
AD28235-001	01/10/22 12:26	MAXW	0	M	Login
AD28235-001	01/10/22 13:01	R31	1	A	NONE
AD28235-001	01/10/22 13:01	R31	2	A	NONE
AD28235-001	01/10/22 17:43	SG	2	A	VOA
AD28235-001	01/10/22 13:01	R31	3	A	NONE
AD28235-001	01/10/22 13:01	R31	4	A	NONE
AD28235-001	01/10/22 13:01	R31	5	A	NONE
AD28235-001	01/10/22 13:01	R31PH	6	A	NONE
AD28235-001	01/10/22 16:54	R12	7	A	NONE
AD28235-001	01/10/22 16:54	R12	8	A	NONE
AD28235-001	01/11/22 09:13	AT	8	A	BNA
AD28235-001	01/10/22 16:54	R12	9	A	NONE
AD28235-001	01/12/22 07:44	DYR	9	A	TPH AQ
AD28235-001	01/12/22 11:06	R12	9	A	NONE
AD28235-001	01/10/22 16:54	R12	10	A	NONE
AD28235-001	01/10/22 16:54	R12	11	A	NONE
AD28235-001	01/11/22 09:34	KEVS	11	A	TDWI
AD28235-001	01/11/22 13:51	R12	11	A	NONE
AD28235-002	01/10/22 11:00	MAXW	0	M	Received
AD28235-002	01/10/22 12:26	MAXW	0	M	Login
AD28235-002	01/10/22 13:01	R31	1	A	NONE
AD28235-002	01/10/22 13:01	R31	2	A	NONE
AD28235-002	01/10/22 17:43	SG	2	A	VOA
AD28235-002	01/10/22 13:01	R31	3	A	NONE
AD28235-002	01/10/22 13:01	R31	4	A	NONE
AD28235-002	01/10/22 13:01	R31	5	A	NONE
AD28235-002	01/10/22 13:01	R31PH	6	A	NONE
AD28235-002	01/10/22 16:54	R12	7	A	NONE
AD28235-002	01/10/22 16:54	R12	8	A	NONE
AD28235-002	01/11/22 09:13	AT	8	A	BNA
AD28235-002	01/10/22 16:54	R12	9	A	NONE
AD28235-002	01/10/22 16:54	R12	10	A	NONE
AD28235-002	01/12/22 07:44	DYR	10	A	TPH AQ
AD28235-002	01/12/22 11:06	R12	10	A	NONE
AD28235-002	01/10/22 16:54	R12	11	A	NONE
AD28235-002	01/11/22 09:34	KEVS	11	A	TDWI
AD28235-002	01/11/22 13:51	R12	11	A	NONE
AD28235-003	01/10/22 11:00	MAXW	0	M	Received
AD28235-003	01/10/22 12:26	MAXW	0	M	Login
AD28235-003	01/10/22 13:01	R31	1	A	NONE
AD28235-003	01/11/22 10:12	JM	1	A	voa
AD28235-003	01/10/22 13:01	R31	2	A	NONE
AD28235-003	01/10/22 17:43	SG	2	A	VOA
AD28235-003	01/10/22 13:01	R31	3	A	NONE
AD28235-003	01/10/22 13:01	R31	4	A	NONE
AD28235-003	01/10/22 13:01	R31	5	A	NONE
AD28235-003	01/10/22 13:01	R31PH	6	A	NONE
AD28235-003	01/10/22 16:54	R12	7	A	NONE
AD28235-003	01/10/22 16:54	R12	8	A	NONE
AD28235-003	01/11/22 09:13	AT	8	A	BNA
AD28235-003	01/10/22 16:54	R12	9	A	NONE
AD28235-003	01/12/22 07:44	DYR	9	A	TPH AQ
AD28235-003	01/12/22 11:06	R12	9	A	NONE
AD28235-003	01/10/22 16:54	R12	10	A	NONE
AD28235-003	01/10/22 16:54	R12	11	A	NONE
AD28235-003	01/11/22 09:34	KEVS	11	A	TDWI
AD28235-003	01/11/22 13:51	R12	11	A	NONE
AD28235-004	01/10/22 11:00	MAXW	0	M	Received
AD28235-004	01/10/22 12:26	MAXW	0	M	Login
AD28235-004	01/10/22 13:01	R31	1	A	NONE
AD28235-004	01/10/22 13:01	R31	2	A	NONE
AD28235-004	01/10/22 17:43	SG	2	A	VOA
AD28235-004	01/10/22 13:01	R31PH	3	A	NONE
AD28235-004	01/10/22 16:54	R12	4	A	NONE
AD28235-004	01/11/22 09:13	AT	4	A	BNA
AD28235-004	01/10/22 16:54	R12	5	A	NONE
AD28235-005	01/10/22 11:00	MAXW	0	M	Received
AD28235-005	01/10/22 12:26	MAXW	0	M	Login
AD28235-005	01/10/22 13:01	R31	1	A	NONE
AD28235-005	01/10/22 13:01	R31	2	A	NONE
AD28235-005	01/10/22 17:43	SG	2	A	VOA
AD28235-005	01/10/22 13:01	R31PH	3	A	NONE
AD28235-005	01/10/22 16:54	R12	4	A	NONE
AD28235-005	01/11/22 09:13	AT	4	A	BNA

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD28235-005	01/10/22 16:54	R12	5	A	NONE
AD28235-006	01/10/22 11:00	MAXW	0	M	Received
AD28235-006	01/10/22 12:26	MAXW	0	M	Login
AD28235-006	01/10/22 13:01	R31	1	A	NONE
AD28235-006	01/11/22 10:12	JM	1	A	voa
AD28235-006	01/10/22 13:01	R31	2	A	NONE
AD28235-006	01/10/22 17:43	SG	2	A	VOA
AD28235-006	01/10/22 13:01	R31PH	3	A	NONE
AD28235-006	01/10/22 16:54	R12	4	A	NONE
AD28235-006	01/10/22 16:54	R12	5	A	NONE
AD28235-006	01/11/22 09:13	AT	5	A	BNA
AD28235-007	01/10/22 11:00	MAXW	0	M	Received
AD28235-007	01/10/22 12:26	MAXW	0	M	Login
AD28235-007	01/10/22 13:01	R31	1	A	NONE
AD28235-007	01/11/22 10:12	JM	1	A	voa
AD28235-007	01/10/22 13:01	R31	2	A	NONE
AD28235-007	01/10/22 17:43	SG	2	A	VOA
AD28235-007	01/10/22 13:01	R31PH	3	A	NONE
AD28235-007	01/10/22 16:54	R12	4	A	NONE
AD28235-007	01/10/22 16:54	R12	5	A	NONE
AD28235-007	01/11/22 09:13	AT	5	A	BNA
AD28235-008	01/10/22 11:00	MAXW	0	M	Received
AD28235-008	01/10/22 12:26	MAXW	0	M	Login
AD28235-008	01/10/22 13:01	R31	1	A	NONE
AD28235-008	01/11/22 10:12	JM	1	A	voa
AD28235-008	01/10/22 13:01	R31	2	A	NONE
AD28235-008	01/10/22 17:43	SG	2	A	VOA
AD28235-008	01/10/22 13:01	R31PH	3	A	NONE
AD28235-008	01/10/22 16:54	R12	4	A	NONE
AD28235-008	01/11/22 09:13	AT	4	A	BNA
AD28235-009	01/10/22 11:00	MAXW	0	M	Received
AD28235-009	01/10/22 12:34	MAXW	0	M	Login
AD28235-009	01/10/22 13:01	R31	1	A	NONE
AD28235-009	01/10/22 13:01	R31	2	A	NONE
AD28235-009	01/10/22 17:43	SG	2	A	VOA
AD28235-009	01/10/22 13:01	R31	3	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-001
Client Id: MW-001
Data File: 1M157526.D
Analysis Date: 01/10/22 23:01
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625421

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

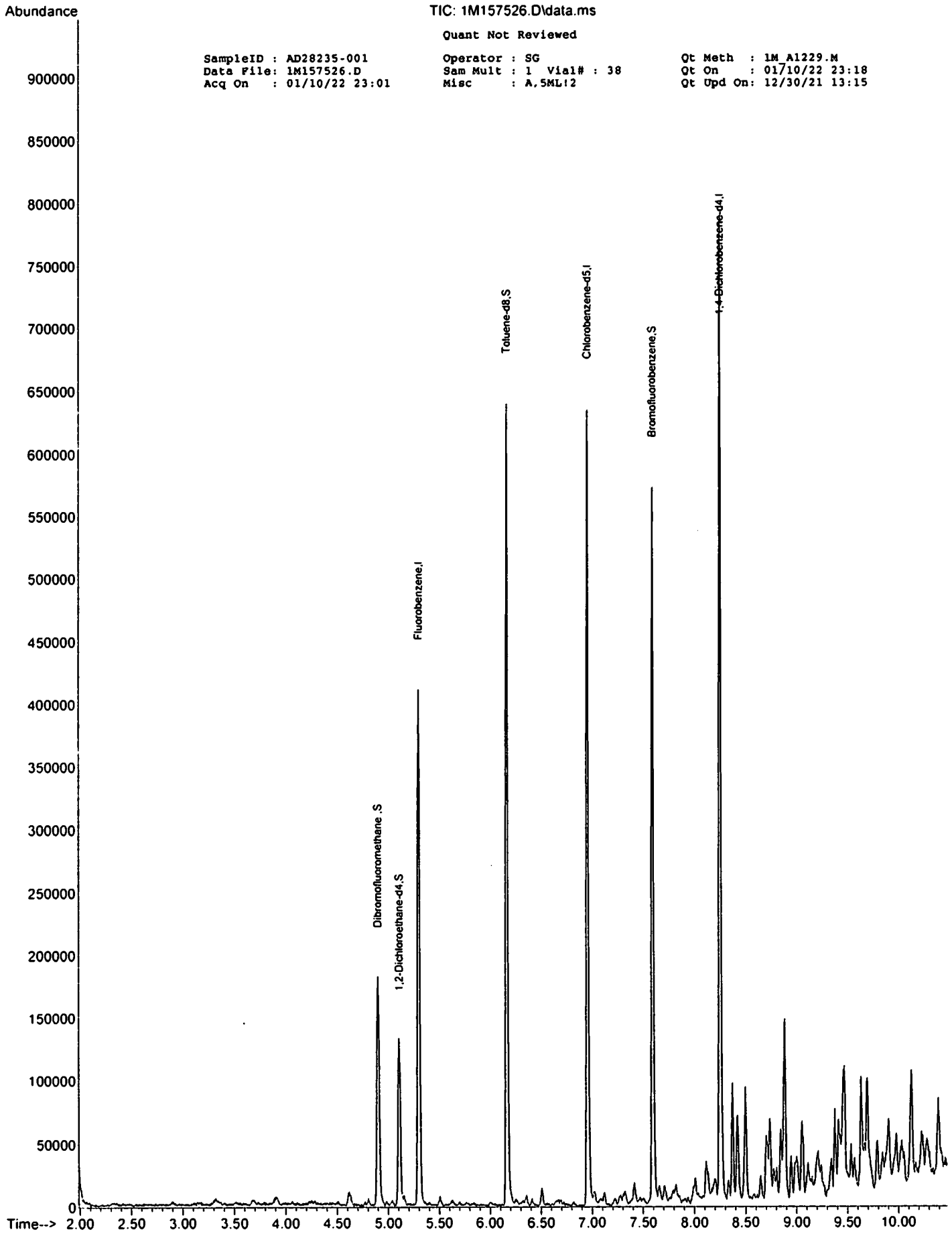
Quantitation Report (Not Reviewed)

SampleID : AD28235-001 Operator : SG Qt Meth : 1M_A1229.M
Data File: 1M157526.D Sam Mult : 1 Vial# : 38 Qt On : 01/10/22 23:18
Acq On : 01/10/22 23:01 Misc : A,5ML!2 Qt Upd On: 12/30/21 13:15

Data Path : G:\GcMsData\2022\GCMS_1\Data\01-10-22\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.299	96	292607	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.958	117	290280	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.254	152	173314	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.900	111	87979	30.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.13%			
39) 1,2-Dichloroethane-d4	5.109	67	39435	30.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.17%			
66) Toluene-d8	6.167	98	297680	28.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.53%			
76) Bromofluorobenzene	7.595	174	139749	31.49	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.97%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M157526.D\data.ms
Quant Not Reviewed
SampleID : AD28235-001
Data File: 1M157526.D
Acq On : 01/10/22 23:01
Operator : SG
Sam Mult : 1 Vial# : 38
Misc : A,5ML!2
Qt Meth : 1M_A1229.M
Qt On : 01/10/22 23:18
Qt Upd On: 12/30/21 13:15
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-002
Client Id: MW-002
Data File: 1M157527.D
Analysis Date: 01/10/22 23:19
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	**110-82-7**	**Cyclohexane**	**1.0**	**1.3**
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	**98-82-8**	**Isopropylbenzene**	**1.0**	**1.6**
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**2.2**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

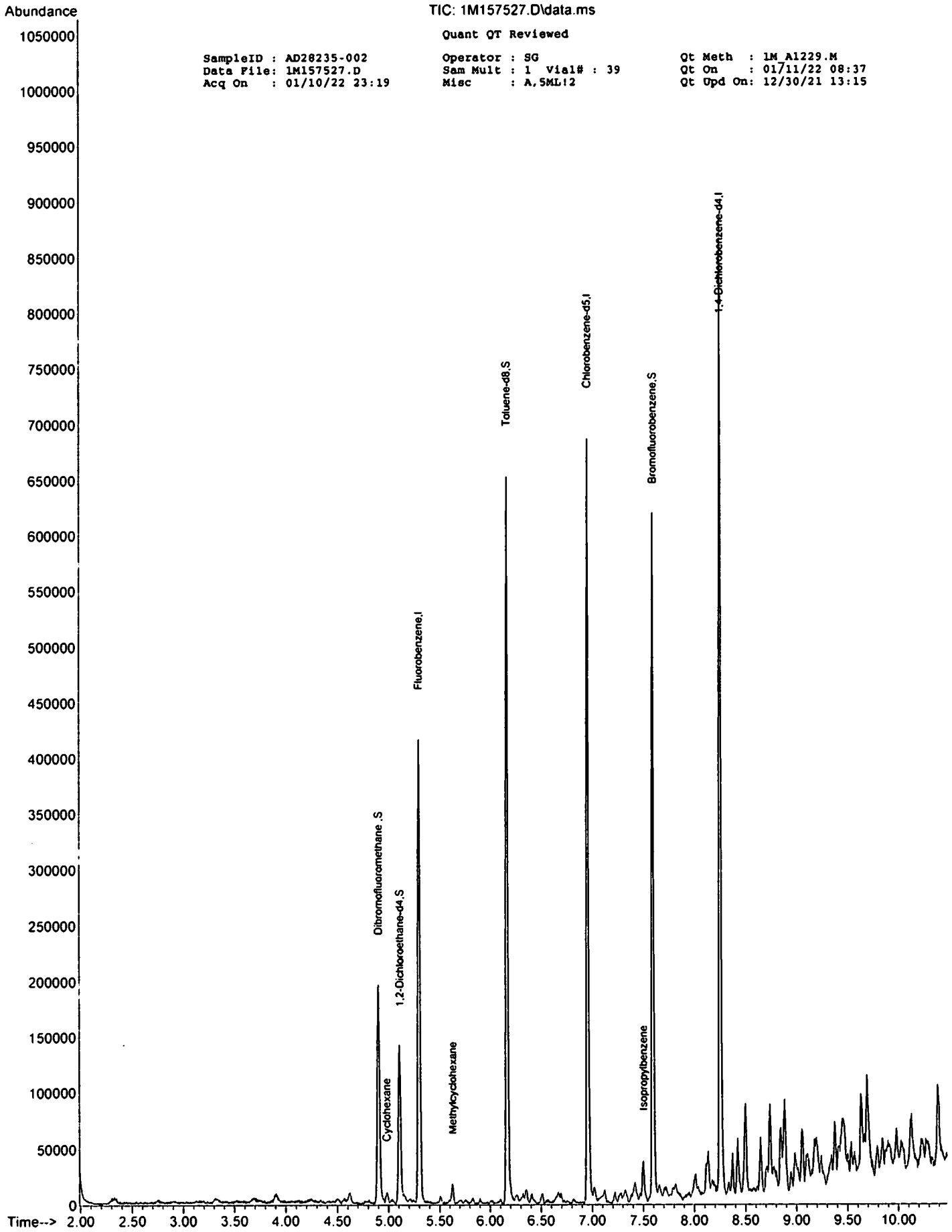
Quantitation Report (QT Reviewed)

SampleID : AD28235-002 Operator : SG Qt Meth : 1M_A1229.M
Data File: 1M157527.D Sam Mult : 1 Vial# : 39 Qt On : 01/11/22 08:37
Acq On : 01/10/22 23:19 Misc : A,5ML!2 Qt Upd On: 12/30/21 13:15

Data Path : G:\GcMsData\2022\GCMS_1\Data\01-10-22\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.299	96	297664	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.958	117	305855	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.254	152	187693	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.904	111	92457	31.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.43%			
39) 1,2-Dichloroethane-d4	5.112	67	40196	30.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.37%			
66) Toluene-d8	6.167	98	305860	27.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.20%			
76) Bromofluorobenzene	7.598	174	146581	30.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.67%			
Target Compounds						Qvalue
38) Cyclohexane	4.981	56	2854	1.2742	ug/l	67
46) Methylcyclohexane	5.630	83	4327	2.1635	ug/l	93
84) Isopropylbenzene	7.501	105	16049	1.5548	ug/l	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M157527.D\data.ms
Quant QT Reviewed
SampleID : AD28235-002
Data File: 1M157527.D
Acq On : 01/10/22 23:19
Operator : SG
Sam Mult : 1 Vial# : 39
Misc : A,5ML:2
Qt Meth : 1M_A1229.M
Qt On : 01/11/22 08:37
Qt Upd On: 12/30/21 13:15
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Cyclohexane
Methylcyclohexane
Toluene-d8,S
Chlorobenzene-d5,I
Isopropylbenzene
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-003
Client Id: MW-004
Data File: 2M162306.D
Analysis Date: 01/11/22 11:17
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	**110-82-7**	**Cyclohexane**	**1.0**	**1.4**
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	**98-82-8**	**Isopropylbenzene**	**1.0**	**1.5**
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**3.0**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	**4-Methyl-2-Pentanone**	**1.0**	**1.4**	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	**Carbon Disulfide**	**1.0**	**1.1**	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625421

Total Target Concentration 8.4

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

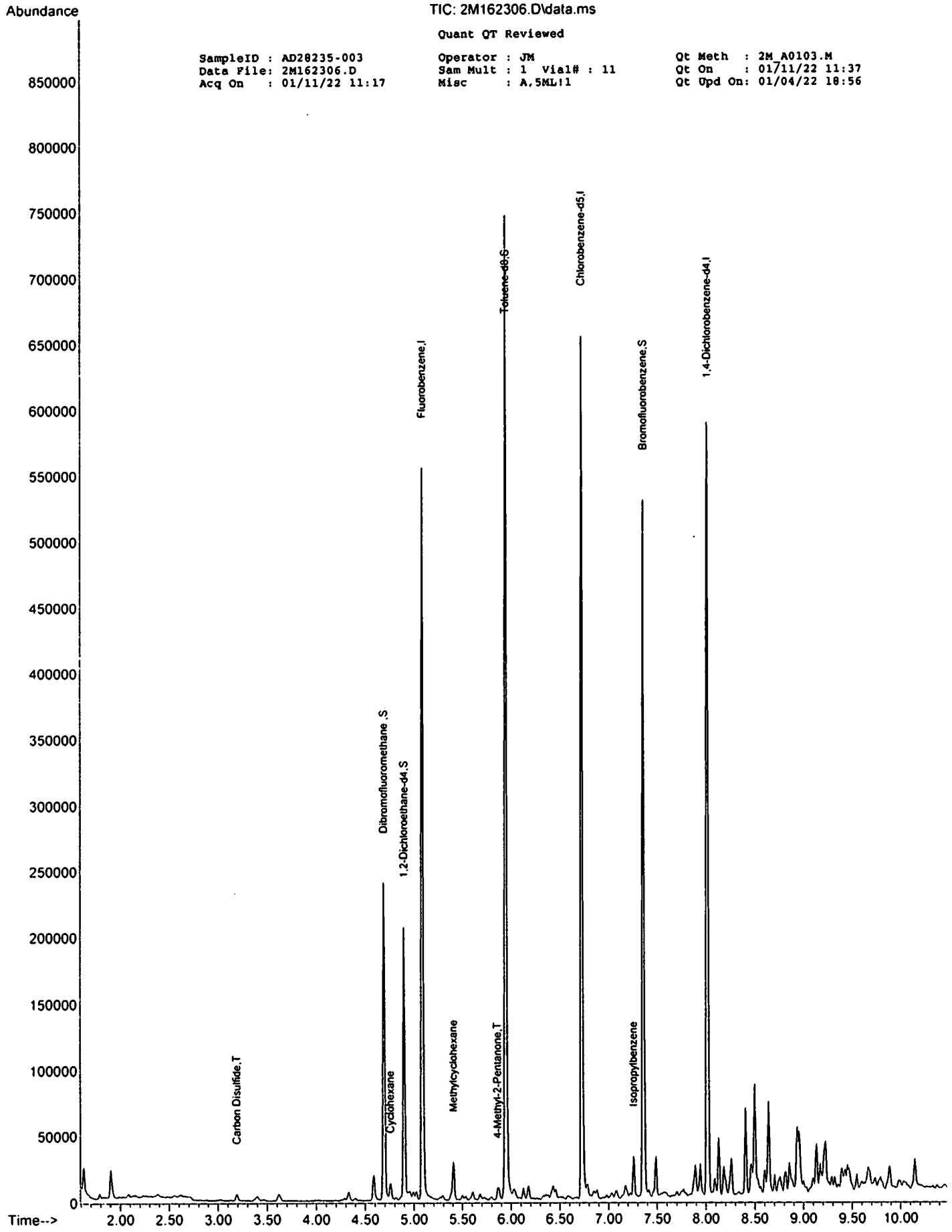
Quantitation Report (QT Reviewed)

SampleID : AD28235-003 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162306.D Sam Mult : 1 Vial# : 11 Qt On : 01/11/22 11:37
Acq On : 01/11/22 11:17 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	330012	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	274456	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	129970	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	94199	29.75	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.17%			
39) 1,2-Dichloroethane-d4	4.898	67	47795	29.63	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.77%			
66) Toluene-d8	5.946	98	340490	29.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.53%			
76) Bromofluorobenzene	7.361	174	113450	30.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.30%			
Target Compounds						Qvalue
20) Carbon Disulfide	3.191	76	6092	1.0942	ug/l	100
38) Cyclohexane	4.757	56	3881	1.4085	ug/l	82
46) Methylcyclohexane	5.404	83	8422	3.0369	ug/l	94
63) 4-Methyl-2-Pentanone	5.861	43	3770	1.3830	ug/l	87
84) Isopropylbenzene	7.257	105	15390	1.5349	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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Quant QT Reviewed
SampleID : AD28235-003
Data File: 2M162306.D
Acq On : 01/11/22 11:17
Operator : JM
Sam Mult : 1 Vial# : 11
Misc : A,5ML!1
Qt Meth : 2M_A0103.M
Qt On : 01/11/22 11:37
Qt Upd On: 01/04/22 18:56
850000
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750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
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3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
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8.50
9.00
9.50
10.00
Carbon Disulfide,T
Cyclohexane
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Methylcyclohexane
4-Methyl-2-Pentanone,T
Toluene-d8,S
Chlorobenzene-d5,I
Isopropylbenzene
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-004(5X)
Client Id: TMW-004D
Data File: 2M162310.D
Analysis Date: 01/11/22 12:36
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 5.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	5.0	U	56-23-5	Carbon Tetrachloride	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	5.0	U	75-00-3	Chloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U	67-66-3	Chloroform	9.8	U
75-34-3	1,1-Dichloroethane	5.0	U	74-87-3	Chloromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**5.0**	**17**
87-61-6	1,2,3-Trichlorobenzene	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U	110-82-7	Cyclohexane	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	5.0	U	124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U	75-71-8	Dichlorodifluoromethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U	100-41-4	Ethylbenzene	5.0	U
107-06-2	1,2-Dichloroethane	3.2	U	98-82-8	Isopropylbenzene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U	79601-23-1	m&p-Xylenes	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U	79-20-9	Methyl Acetate	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U	108-87-2	Methylcyclohexane	5.0	U
123-91-1	1,4-Dioxane	250	U	75-09-2	Methylene Chloride	5.0	U
78-93-3	2-Butanone	5.0	U	1634-04-4	Methyl-t-butyl ether	2.5	U
591-78-6	2-Hexanone	5.0	U	95-47-6	o-Xylene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U	100-42-5	Styrene	5.0	U
67-64-1	Acetone	25	U	75-65-0	t-Butyl Alcohol	25	U
107-02-8	Acrolein	25	U	**127-18-4**	**Tetrachloroethene**	**5.0**	**690**
107-13-1	Acrylonitrile	5.0	U	108-88-3	Toluene	5.0	U
71-43-2	Benzene	2.5	U	156-60-5	trans-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-27-4	Bromodichloromethane	5.0	U	**79-01-6**	**Trichloroethene**	**5.0**	**48**
75-25-2	Bromoform	5.0	U	75-69-4	Trichlorofluoromethane	5.0	U
74-83-9	Bromomethane	5.0	U	75-01-4	Vinyl Chloride	5.0	U
75-15-0	Carbon Disulfide	5.0	U	1330-20-7	Xylenes (Total)	5.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

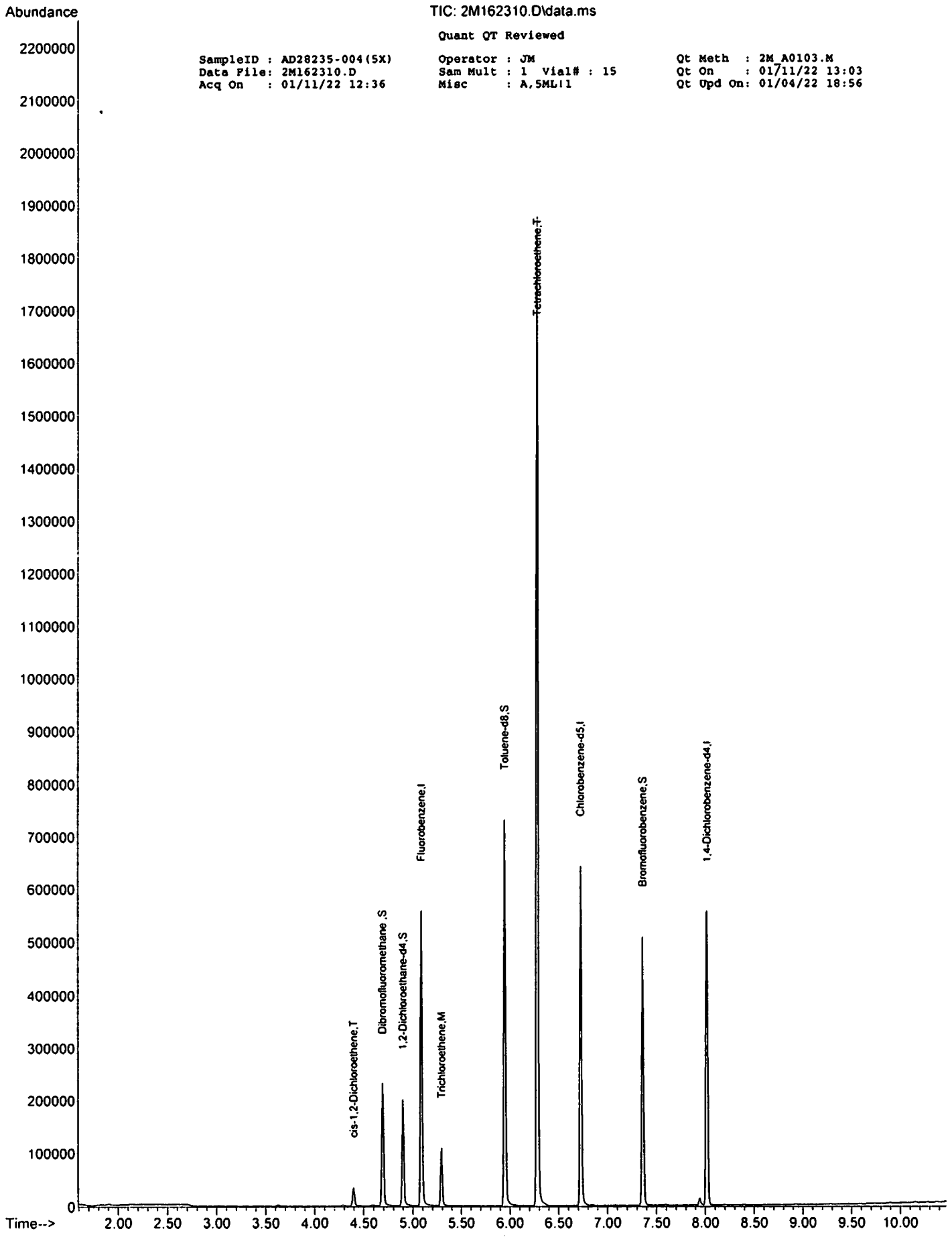
Quantitation Report (QT Reviewed)

SampleID : AD28235-004(5X) Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162310.D Sam Mult : 1 Vial# : 15 Qt On : 01/11/22 13:03
Acq On : 01/11/22 12:36 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	325914	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	271244	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	123327	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	92775	29.67	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.90%			
39) 1,2-Dichloroethane-d4	4.898	67	46447	29.16	ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.20%			
66) Toluene-d8	5.946	98	336999	29.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.67%			
76) Bromofluorobenzene	7.361	174	108849	30.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.43%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	4.398	61	13547	3.4713	ug/l	90
49) Trichloroethene	5.294	130	26093	9.5804	ug/l	95
65) Tetrachloroethene	6.281	164	298042	138.1361	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : AD28235-004(5X)
Data File: 2M162310.D
Acq On : 01/11/22 12:36
Operator : JM
Sam Mult : 1 Vial# : 15
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/11/22 13:03
Qt Upd On: 01/04/22 18:56
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-005(5X)
Client Id: TMW-004S
Data File: 2M162324.D
Analysis Date: 01/11/22 17:13
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 5.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	5.0	U	56-23-5	Carbon Tetrachloride	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	5.0	U	75-00-3	Chloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U	67-66-3	Chloroform	9.8	U
75-34-3	1,1-Dichloroethane	5.0	U	74-87-3	Chloromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**5.0**	**14**
87-61-6	1,2,3-Trichlorobenzene	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U	110-82-7	Cyclohexane	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	5.0	U	124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U	75-71-8	Dichlorodifluoromethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U	100-41-4	Ethylbenzene	5.0	U
107-06-2	1,2-Dichloroethane	3.2	U	98-82-8	Isopropylbenzene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U	79601-23-1	m&p-Xylenes	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U	79-20-9	Methyl Acetate	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U	108-87-2	Methylcyclohexane	5.0	U
123-91-1	1,4-Dioxane	250	U	75-09-2	Methylene Chloride	5.0	U
78-93-3	2-Butanone	5.0	U	1634-04-4	Methyl-t-butyl ether	2.5	U
591-78-6	2-Hexanone	5.0	U	95-47-6	o-Xylene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U	100-42-5	Styrene	5.0	U
67-64-1	Acetone	25	U	75-65-0	t-Butyl Alcohol	25	U
107-02-8	Acrolein	25	U	**127-18-4**	**Tetrachloroethene**	**5.0**	**520**
107-13-1	Acrylonitrile	5.0	U	108-88-3	Toluene	5.0	U
71-43-2	Benzene	2.5	U	156-60-5	trans-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-27-4	Bromodichloromethane	5.0	U	**79-01-6**	**Trichloroethene**	**5.0**	**38**
75-25-2	Bromoform	5.0	U	75-69-4	Trichlorofluoromethane	5.0	U
74-83-9	Bromomethane	5.0	U	75-01-4	Vinyl Chloride	5.0	U
75-15-0	Carbon Disulfide	5.0	U	1330-20-7	Xylenes (Total)	5.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD28235-005(5X) Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162324.D Sam Mult : 1 Vial# : 29 Qt On : 01/11/22 17:37
Acq On : 01/11/22 17:13 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	341257	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	279338	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	131369	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	96211	29.38	ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.93%			
39) 1,2-Dichloroethane-d4	4.898	67	47612	28.55	ug/l	-0.01
Spiked Amount 30.000			Recovery = 95.17%			
66) Toluene-d8	5.946	98	347579	29.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.80%			
76) Bromofluorobenzene	7.361	174	114320	30.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.00%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	4.398	61	11558	2.8285	ug/l	93
49) Trichloroethene	5.294	130	21567	7.5626	ug/l	97
65) Tetrachloroethene	6.281	164	231636	104.2475	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

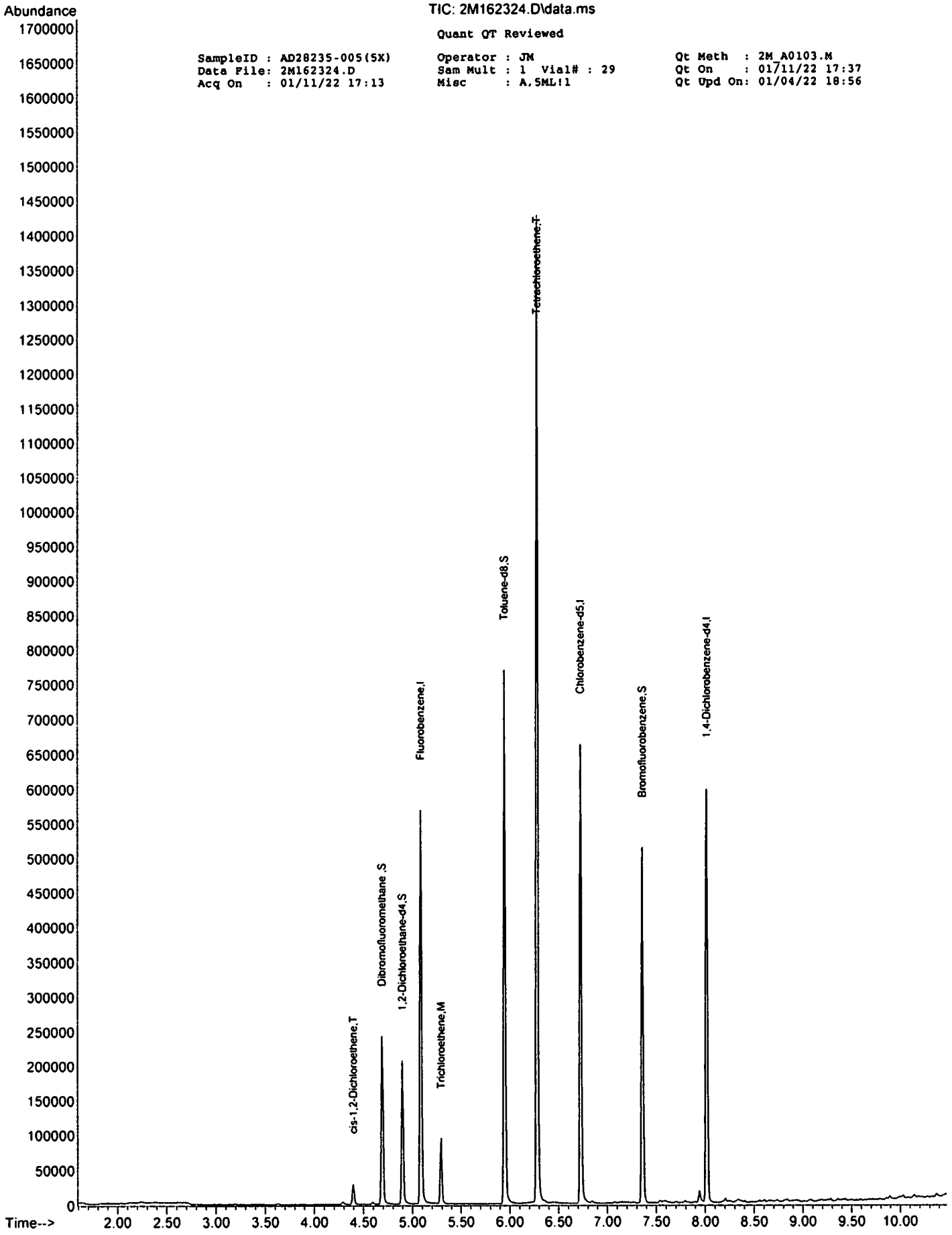
TIC: 2M162324.D\data.ms

Quant QT Reviewed

SampleID : AD28235-005(5X)
Data File: 2M162324.D
Acq On : 01/11/22 17:13

Operator : JM
Sam Mult : 1 Vial# : 29
Misc : A,5ML!1

Qt Meth : 2M_A0103.M
Qt On : 01/11/22 17:37
Qt Upd On: 01/04/22 18:56



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-006
Client Id: TMW-006S
Data File: 2M162307.D
Analysis Date: 01/11/22 11:37
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**90**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**100**
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**4.5**
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**150**
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**9.2**
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625421 *Total Target Concentration* 350 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

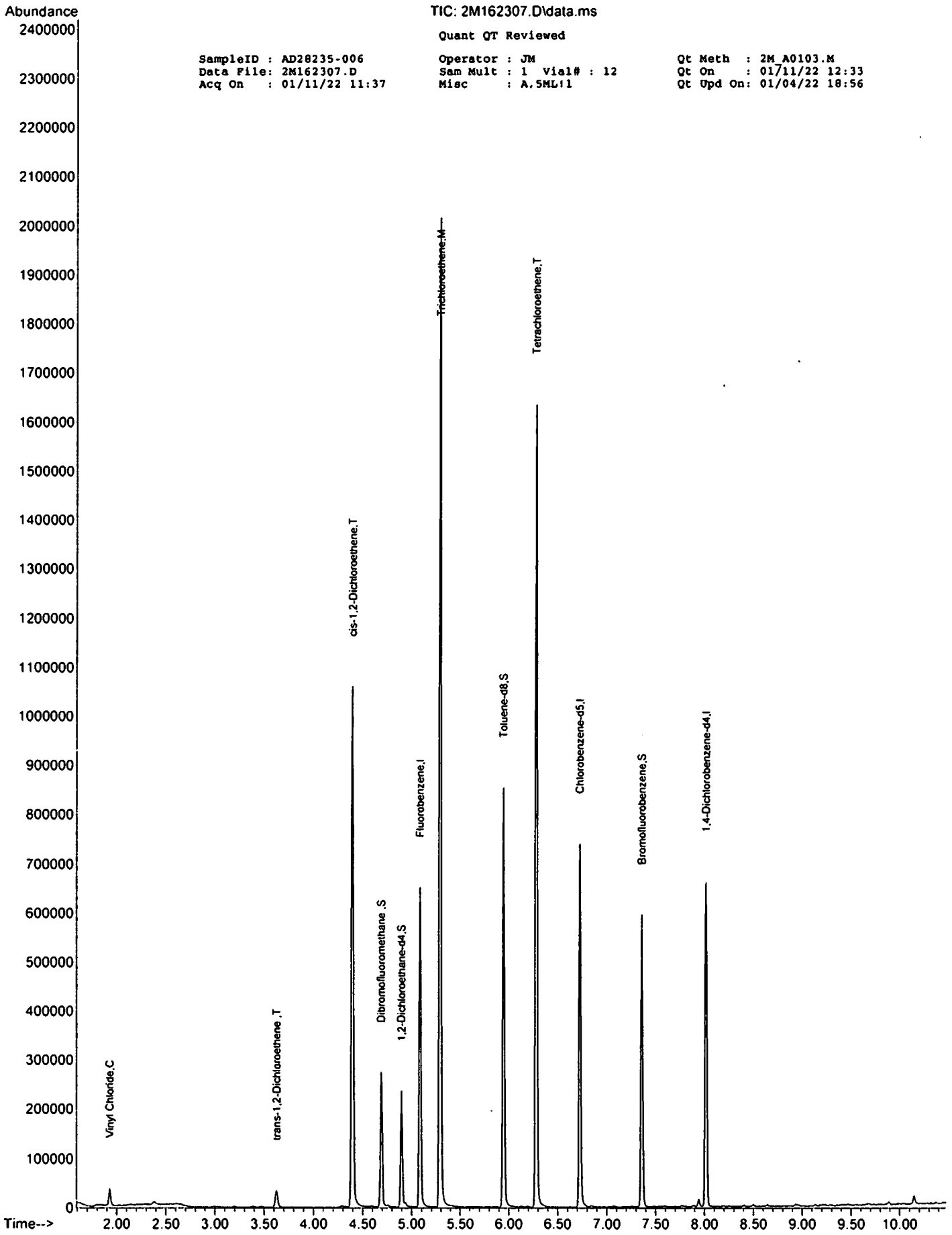
Quantitation Report (QT Reviewed)

SampleID : AD28235-006 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162307.D Sam Mult : 1 Vial# : 12 Qt On : 01/11/22 12:33
Acq On : 01/11/22 11:37 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	379860	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	317725	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	146919	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	109186	29.96	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.87%			
39) 1,2-Dichloroethane-d4	4.897	67	55193	29.73	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.10%			
66) Toluene-d8	5.946	98	391995	29.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.97%			
76) Bromofluorobenzene	7.360	174	129053	30.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.93%			
Target Compounds						Qvalue
9) Vinyl Chloride	1.928	62	23922	9.1944	ug/l	95
28) trans-1,2-Dichloroethene	3.629	96	12455	4.5140	ug/l	90
30) cis-1,2-Dichloroethene	4.398	61	407722	89.6381	ug/l	88
49) Trichloroethene	5.294	130	475344	149.7425	ug/l	99
65) Tetrachloroethene	6.281	164	260872	103.2205	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162307.D\data.ms
Quant QT Reviewed
SampleID : AD28235-006
Data File: 2M162307.D
Acq On : 01/11/22 11:37
Operator : JM
Sam Mult : 1 Vial# : 12
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/11/22 12:33
Qt Upd On: 01/04/22 18:56
Vinyl Chloride,C
trans-1,2-Dichloroethene ,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,T
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-007
Client Id: TMW-006D
Data File: 2M162308.D
Analysis Date: 01/11/22 11:57
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**170**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**98**
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**6.2**
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**33**
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**22**
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

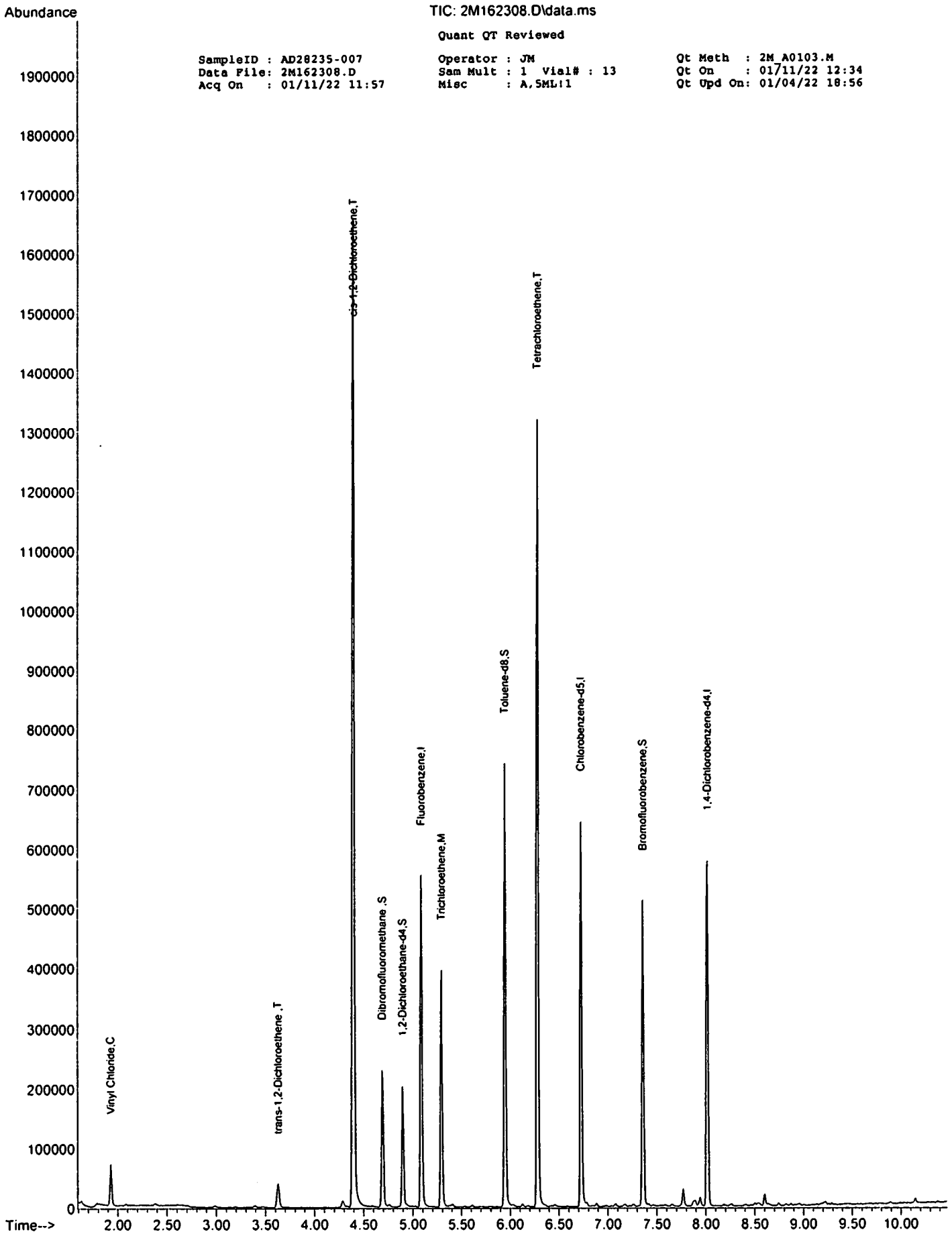
Quantitation Report (QT Reviewed)

SampleID : AD28235-007 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162308.D Sam Mult : 1 Vial# : 13 Qt On : 01/11/22 12:34
Acq On : 01/11/22 11:57 Misc : A,SML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	329372	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	272590	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	127076	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	94216	29.81	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.37%			
39) 1,2-Dichloroethane-d4	4.897	67	47444	29.47	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.23%			
66) Toluene-d8	5.946	98	337481	29.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.33%			
76) Bromofluorobenzene	7.360	174	111285	30.19	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.63%			
Target Compounds						Qvalue
9) Vinyl Chloride	1.928	62	49043	21.7390	ug/l	93
28) trans-1,2-Dichloroethene	3.629	96	14789	6.1814	ug/l	96
30) cis-1,2-Dichloroethene	4.398	61	656041	166.3399	ug/l	87
49) Trichloroethene	5.294	130	90781	32.9814	ug/l	98
65) Tetrachloroethene	6.281	164	212101	97.8188	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162308.D\data.ms
Quant QT Reviewed
SampleID : AD28235-007
Data File: 2M162308.D
Acq On : 01/11/22 11:57
Operator : JM
Sam Mult : 1 Vial# : 13
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/11/22 12:34
Qt Upd On: 01/04/22 18:56
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Vinyl Chloride,C
trans-1,2-Dichloroethene,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-008
Client Id: TMW-002
Data File: 2M162304.D
Analysis Date: 01/11/22 10:37
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625421 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (Not Reviewed)

SampleID : AD28235-008 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162304.D Sam Mult : 1 Vial# : 9 Qt On : 01/11/22 10:50
Acq On : 01/11/22 10:37 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	390187	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	324438	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	150612	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	111875	29.88	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.60%			
39) 1,2-Dichloroethane-d4	4.898	67	57022	29.90	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.67%			
66) Toluene-d8	5.946	98	398271	29.25	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.50%			
76) Bromofluorobenzene	7.361	174	131290	30.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.17%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

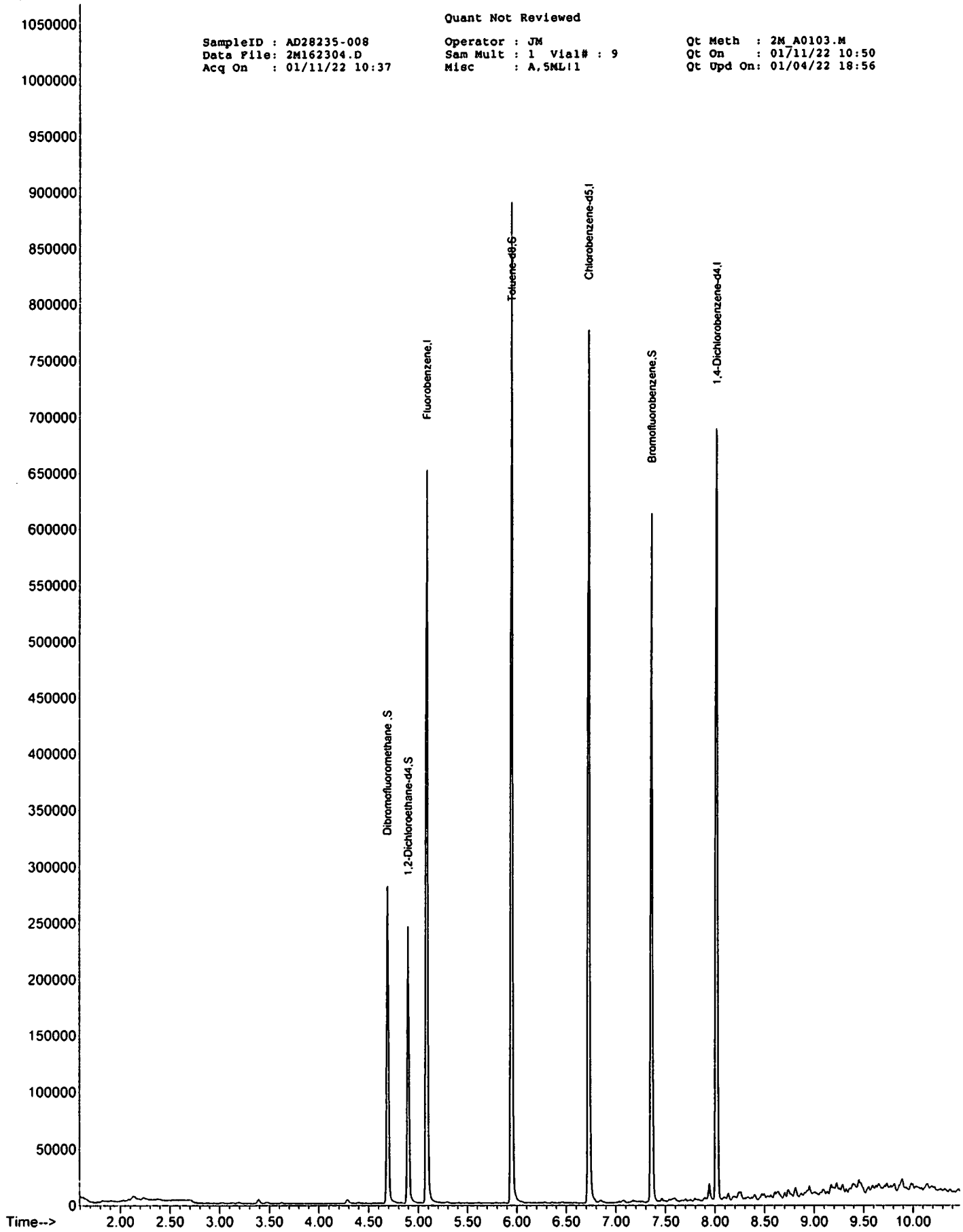
TIC: 2M162304.D\data.ms

Quant Not Reviewed

SampleID : AD28235-008
Data File: 2M162304.D
Acq On : 01/11/22 10:37

Operator : JM
Sam Mult : 1 Vial# : 9
Misc : A,5ML!1

Qt Meth : 2M_A0103.M
Qt On : 01/11/22 10:50
Qt Upd On: 01/04/22 18:56



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28235-009
Client Id: TRIP BLANK
Data File: 1M157513.D
Analysis Date: 01/10/22 18:59
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625421

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

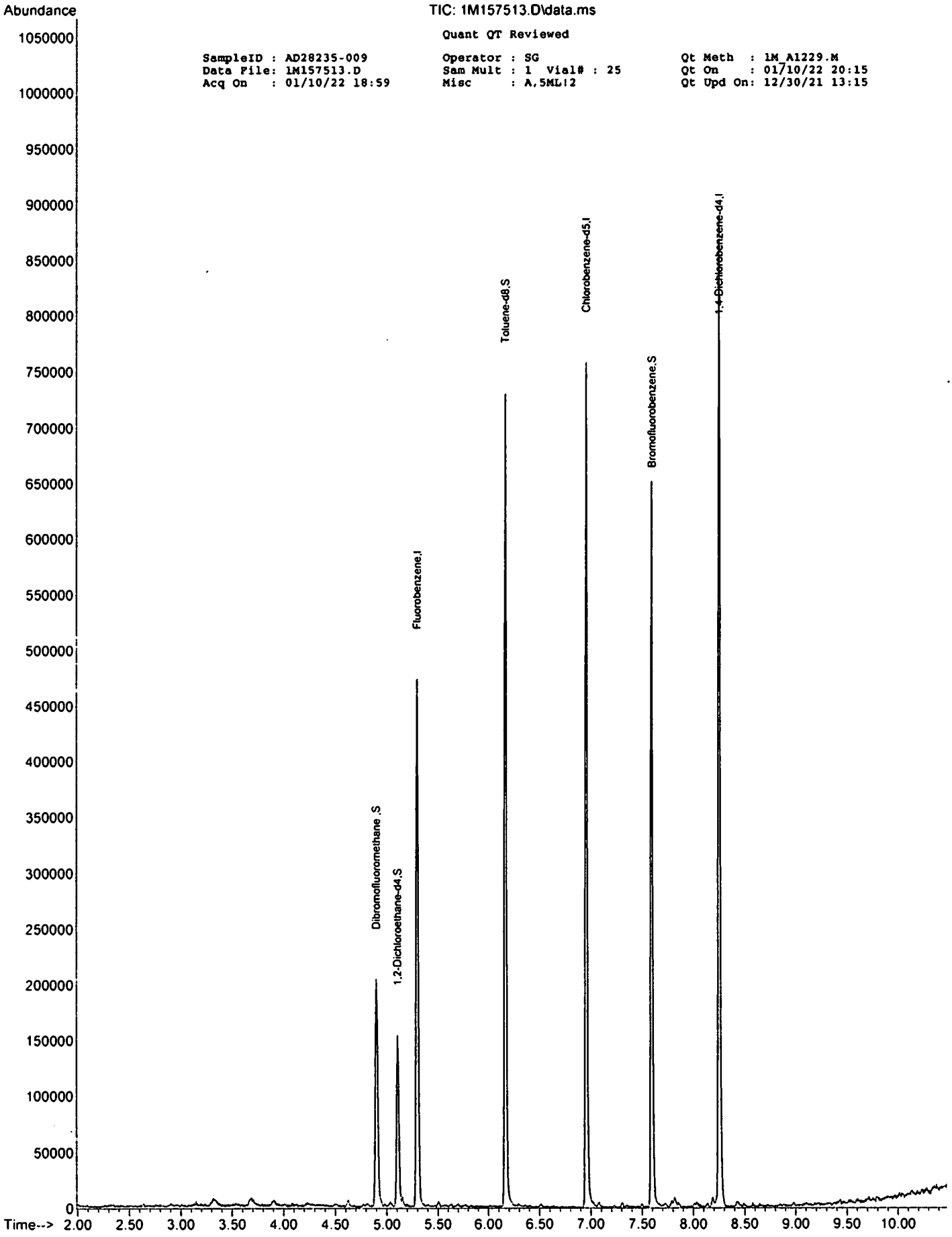
Quantitation Report (QT Reviewed)

SampleID : AD28235-009 Operator : SG Qt Meth : 1M_A1229.M
Data File: 1M157513.D Sam Mult : 1 Vial# : 25 Qt On : 01/10/22 20:15
Acq On : 01/10/22 18:59 Misc : A,5ML!2 Qt Upd On: 12/30/21 13:15

Data Path : G:\GcMsData\2022\GCMS_1\Data\01-10-22\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.299	96	328228	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.958	117	331862	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.254	152	195054	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.900	111	96301	29.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.70%			
39) 1,2-Dichloroethane-d4	5.106	67	41693	28.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.43%			
66) Toluene-d8	6.167	98	346042	28.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.10%			
76) Bromofluorobenzene	7.598	174	152208	30.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M157513.D\data.ms
Quant QT Reviewed
SampleID : AD28235-009
Data File: 1M157513.D
Acq On : 01/10/22 18:59
Operator : SG
Sam Mult : 1 Vial# : 25
Misc : A,5ML;2
Qt Meth : 1M_A1229.M
Qt On : 01/10/22 20:15
Qt Upd On: 12/30/21 13:15
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M157497.D
Analysis Date: 01/10/22 14:01
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U				

Worksheet #: 625421

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : SG Qt Meth : 1M_A1229.M
Data File: 1M157497.D Sam Mult : 1 Vial# : 9 Qt On : 01/10/22 14:24
Acq On : 01/10/22 14:01 Misc : A,5ML Qt Upd On: 12/30/21 13:15

Data Path : G:\GcMsData\2022\GCMS_1\Data\01-10-22\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.299	96	423485	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.958	117	418290	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.257	152	253001	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.900	111	126772	29.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.70%			
39) 1,2-Dichloroethane-d4	5.106	67	57855	30.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.57%			
66) Toluene-d8	6.164	98	451839	29.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.53%			
76) Bromofluorobenzene	7.595	174	192386	29.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

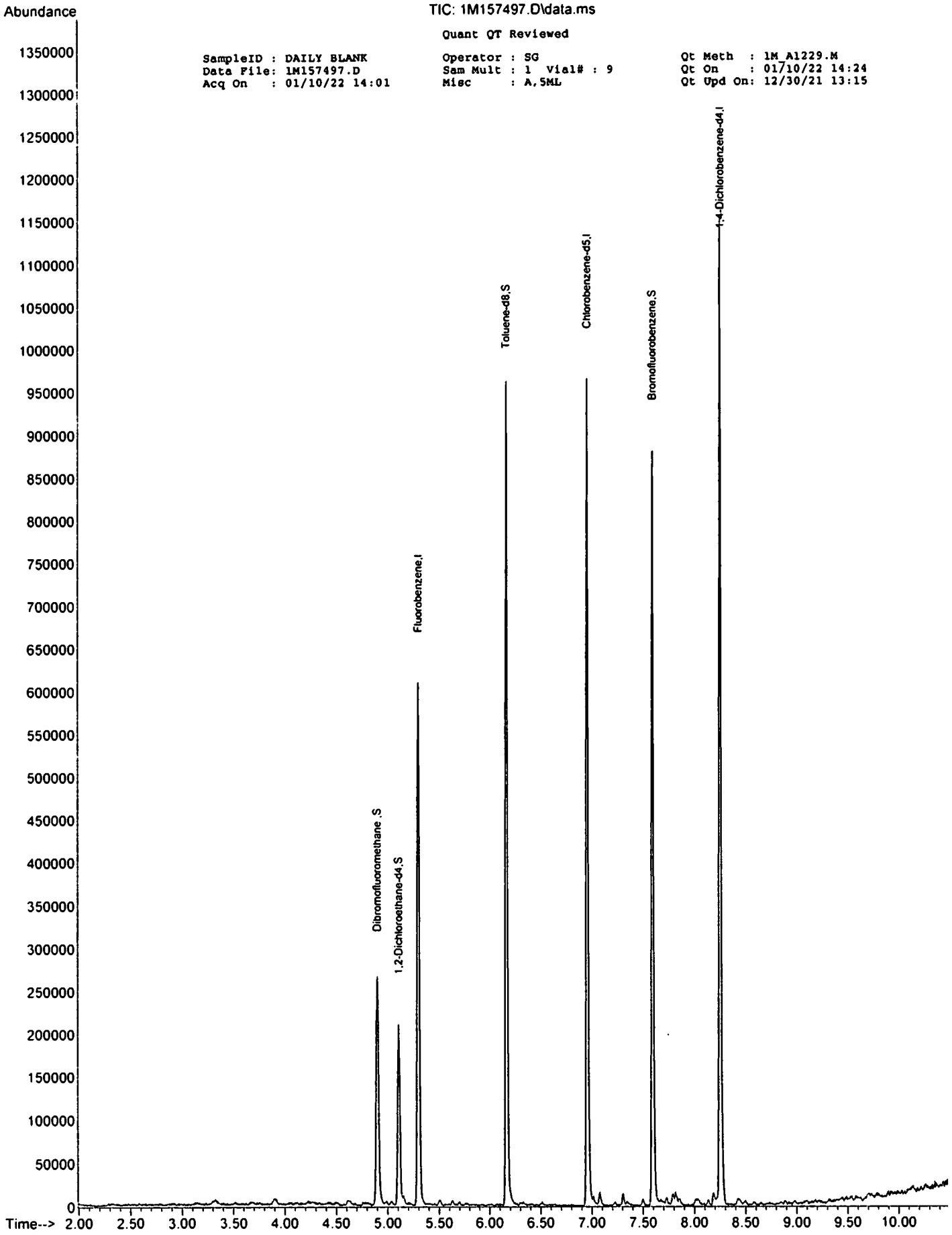
TIC: 1M157497.D\data.ms

Quant QT Reviewed

SampleID : DAILY BLANK
Data File: 1M157497.D
Acq On : 01/10/22 14:01

Operator : SG
Sam Mult : 1 Vial# : 9
Misc : A,5ML

Qt Meth : 1M_A1229.M
Qt On : 01/10/22 14:24
Qt Upd On: 12/30/21 13:15



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M162302.D
Analysis Date: 01/11/22 09:58
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U				

Worksheet #: 625421

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162302.D Sam Mult : 1 Vial# : 7 Qt On : 01/11/22 10:24
Acq On : 01/11/22 09:58 Misc : A,5ML Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	381416	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	314030	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	145924	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	107041	29.25	ug/l	-0.01
Spiked Amount 30.000			Recovery =	97.50%		
39) 1,2-Dichloroethane-d4	4.897	67	53102	28.49	ug/l	-0.01
Spiked Amount 30.000			Recovery =	94.97%		
66) Toluene-d8	5.946	98	391313	29.69	ug/l	0.00
Spiked Amount 30.000			Recovery =	98.97%		
76) Bromofluorobenzene	7.360	174	126529	29.89	ug/l	0.00
Spiked Amount 30.000			Recovery =	99.63%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

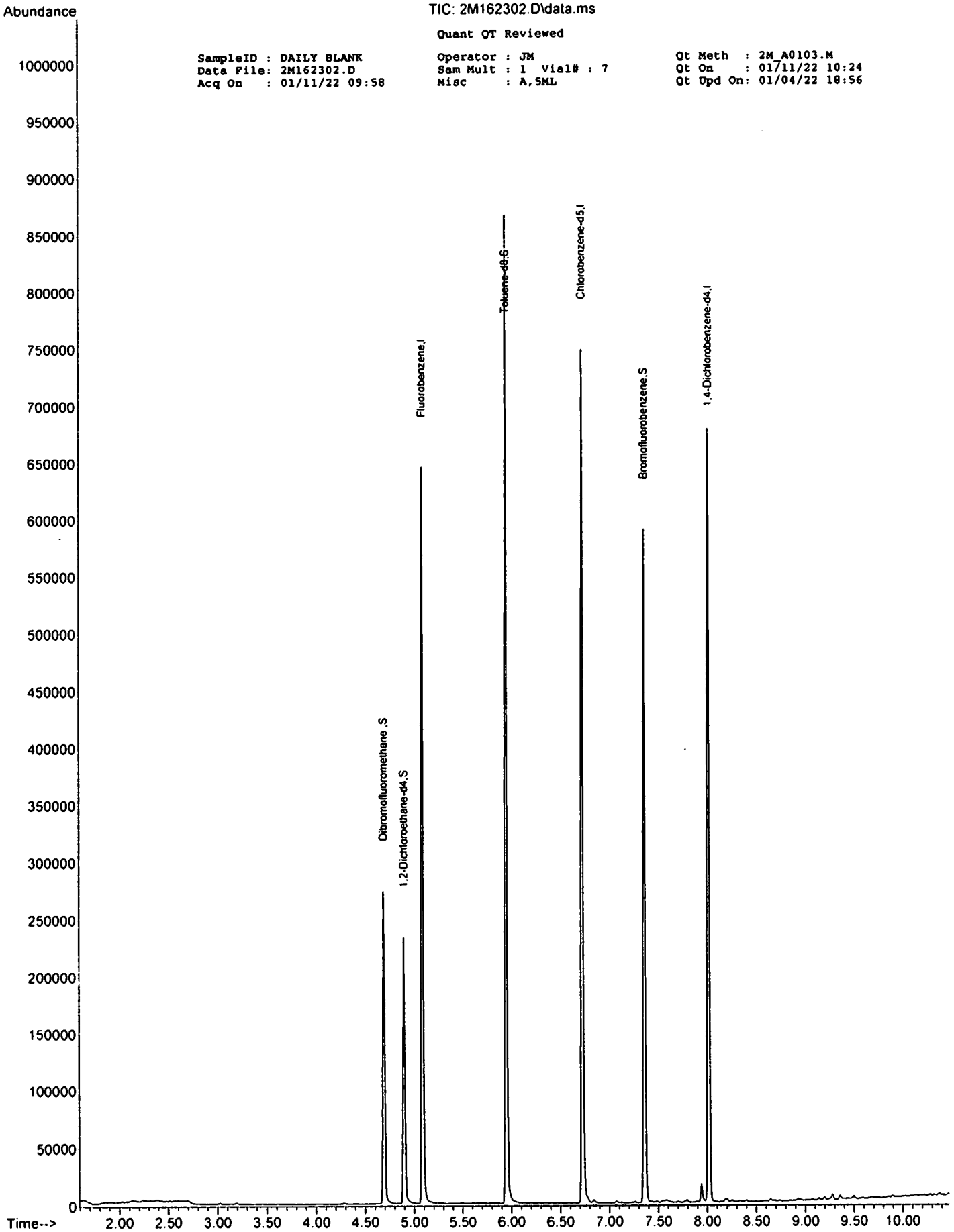
TIC: 2M162302.D\data.ms

Quant QT Reviewed

SampleID : DAILY BLANK
Data File: 2M162302.D
Acq On : 01/11/22 09:58

Operator : JM
Sam Mult : 1 Vial# : 7
Misc : A,SML

Qt Meth : 2M_A0103.M
Qt On : 01/11/22 10:24
Qt Upd On: 01/04/22 18:56



FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
1M157497.D	DAILY BLANK	A	01/10/22 14:01	1		100	102	99	99		
2M162302.D	DAILY BLANK	A	01/11/22 09:58	1		98	95	99	100		
1M157526.D	AD28235-001	A	01/10/22 23:01	1		100	100	94	105		
1M157527.D	AD28235-002	A	01/10/22 23:19	1		103	100	91	102		
2M162306.D	AD28235-003	A	01/11/22 11:17	1		99	99	99	100		
2M162310.D	AD28235-004(5X)	A	01/11/22 12:36	1		99	97	99	101		
2M162324.D	AD28235-005(5X)	A	01/11/22 17:13	1		98	95	99	100		
2M162307.D	AD28235-006	A	01/11/22 11:37	1		100	99	98	101		
2M162308.D	AD28235-007	A	01/11/22 11:57	1		99	98	98	101		
2M162304.D	AD28235-008	A	01/11/22 10:37	1		100	100	97	100		
1M157513.D	AD28235-009	A	01/10/22 18:59	1		98	94	95	102		
1M157499.D	AD28179-001(T)	A	01/10/22 14:39	1		97	100	96	101		
1M157502.D	MBS99263	A	01/10/22 15:34	1		93	96	100	100		
1M157504.D	AD28179-001(T:MS)	A	01/10/22 16:12	1		95	100	98	104		
1M157505.D	AD28179-001(T:MSD)	A	01/10/22 16:30	1		95	89	101	104		
2M162315.D	MBS99274	A	01/11/22 14:15	1		101	97	98	101		
2M162317.D	AD28235-008(MS)	A	01/11/22 14:54	1		101	98	97	98		
2M162318.D	AD28235-008(MSD)	A	01/11/22 15:14	1		102	99	98	100		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99263

Data File — Sample ID: — Analysis Date

Spike or Dup: 1M157502.D — MBS99263 — 1/10/2022 3:34:00 PM

Non Spike(If applicable):

Inst Blank(If applicable):

Method: 8260D — Matrix: Aqueous — Units: ug/L — QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.4259	0	20	97	50	150
Dichlorodifluoromethane	1	19.534	0	20	98	50	150
Chloromethane	1	22.7315	0	20	114	50	150
Bromomethane	1	20.4734	0	20	102	50	150
Vinyl Chloride	1	23.4057	0	20	117	50	150
Chloroethane	1	21.2791	0	20	106	50	150
Trichlorofluoromethane	1	24.4773	0	20	122	50	150
Ethyl ether	1	18.9404	0	20	95	50	150
Furan	1	21.5834	0	20	108	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.2356	0	20	116	50	150
Methylene Chloride	1	21.1088	0	20	106	70	130
Acrolein	1	103.2929	0	100	103	50	150
Acrylonitrile	1	18.9701	0	20	95	50	150
Iodomethane	1	20.7562	0	20	104	50	150
Acetone	1	95.7253	0	100	96	50	150
Carbon Disulfide	1	21.6274	0	20	108	50	150
t-Butyl Alcohol	1	108.9742	0	100	109	50	150
n-Hexane	1	25.4134	0	20	127	70	130
Di-isopropyl-ether	1	22.3878	0	20	112	70	130
1,1-Dichloroethene	1	24.6058	0	20	123	70	130
Methyl Acetate	1	20.4881	0	20	102	50	150
Methyl-t-butyl ether	1	22.0921	0	20	110	70	130
1,1-Dichloroethane	1	20.8904	0	20	104	70	130
trans-1,2-Dichloroethene	1	22.5532	0	20	113	70	130
Ethyl-t-butyl ether	1	20.6436	0	20	103	70	130
cis-1,2-Dichloroethene	1	20.8568	0	20	104	70	130
Bromochloromethane	1	19.2469	0	20	96	70	130
2,2-Dichloropropane	1	23.5077	0	20	118	70	130
Ethyl acetate	1	21.9245	0	20	110	50	150
1,4-Dioxane	1	923.208	0	1000	92	50	150
1,1-Dichloropropene	1	23.8178	0	20	119	70	130
Chloroform	1	21.1976	0	20	106	70	130
Cyclohexane	1	26.0744	0	20	130	70	130
1,2-Dichloroethane	1	23.8962	0	20	119	70	130
2-Butanone	1	22.6432	0	20	113	50	150
1,1,1-Trichloroethane	1	22.4796	0	20	112	70	130
Carbon Tetrachloride	1	23.109	0	20	116	50	150
Vinyl Acetate	1	21.6025	0	20	108	50	150
Bromodichloromethane	1	22.0223	0	20	110	70	130
Methylcyclohexane	1	26.4252	0	20	132*	70	130
Dibromomethane	1	19.9733	0	20	100	70	130
1,2-Dichloropropane	1	21.2599	0	20	106	70	130
Trichloroethene	1	21.4931	0	20	107	70	130
Benzene	1	21.1058	0	20	106	70	130
tert-Amyl methyl ether	1	21.2909	0	20	106	70	130
Iso-propylacetate	1	20.7409	0	20	104	70	130
Methyl methacrylate	1	21.2462	0	20	106	70	130
Dibromochloromethane	1	20.0647	0	20	100	70	130
2-Chloroethylvinylether	1	22.8318	0	20	114	70	130
cis-1,3-Dichloropropene	1	21.1191	0	20	106	70	130
trans-1,3-Dichloropropene	1	21.9371	0	20	110	70	130
Ethyl methacrylate	1	22.3956	0	20	112	70	130
1,1,2-Trichloroethane	1	20.3329	0	20	102	70	130
1,2-Dibromoethane	1	19.3354	0	20	97	70	130
1,3-Dichloropropane	1	19.97	0	20	100	70	130
4-Methyl-2-Pentanone	1	19.939	0	20	100	50	150
2-Hexanone	1	19.5335	0	20	98	50	150
Tetrachloroethene	1	22.2291	0	20	111	50	150
Toluene	1	21.6349	0	20	108	70	130
1,1,1,2-Tetrachloroethane	1	21.3024	0	20	107	70	130
Chlorobenzene	1	20.848	0	20	104	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99263

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	22.2137	0	20	111	70	130
n-Amyl acetate	1	22.4343	0	20	112	70	130
Bromoform	**1**	**18.8141**	**0**	**20**	**94**	**70**	**130**
Ethylbenzene	**1**	**22.7219**	**0**	**20**	**114**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**18.5189**	**0**	**20**	**93**	**70**	**130**
Styrene	**1**	**22.4162**	**0**	**20**	**112**	**70**	**130**
m&p-Xylenes	**1**	**43.7018**	**0**	**40**	**109**	**70**	**130**
o-Xylene	**1**	**21.9775**	**0**	**20**	**110**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	21.9284	0	20	110	50	150
1,3-Dichlorobenzene	**1**	**21.3489**	**0**	**20**	**107**	**70**	**130**
1,4-Dichlorobenzene	**1**	**20.934**	**0**	**20**	**105**	**70**	**130**
1,2-Dichlorobenzene	**1**	**21.3138**	**0**	**20**	**107**	**70**	**130**
Isopropylbenzene	**1**	**24.404**	**0**	**20**	**122**	**70**	**130**
Cyclohexanone	1	87.4736	0	100	87	50	150
Camphene	1	25.7713	0	20	129	70	130
1,2,3-Trichloropropane	1	19.4343	0	20	97	70	130
2-Chlorotoluene	1	22.3632	0	20	112	70	130
p-Ethyltoluene	1	22.7528	0	20	114	70	130
4-Chlorotoluene	1	23.9967	0	20	120	70	130
n-Propylbenzene	1	23.8951	0	20	119	70	130
Bromobenzene	1	22.3061	0	20	112	70	130
1,3,5-Trimethylbenzene	1	23.6313	0	20	118	70	130
Butyl methacrylate	1	23.8378	0	20	119	70	130
t-Butylbenzene	1	25.1038	0	20	126	70	130
1,2,4-Trimethylbenzene	1	23.8381	0	20	119	70	130
sec-Butylbenzene	1	25.3775	0	20	127	70	130
4-Isopropyltoluene	1	24.7816	0	20	124	70	130
n-Butylbenzene	1	24.6311	0	20	123	70	130
p-Diethylbenzene	1	23.8717	0	20	119	70	130
1,2,4,5-Tetramethylbenzene	1	20.4318	0	20	102	70	130
1,2-Dibromo-3-Chloropropane	**1**	**18.5333**	**0**	**20**	**93**	**50**	**150**
Camphor	1	179.0594	0	200	90	20	150
Hexachlorobutadiene	1	25.2239	0	20	126	50	150
1,2,4-Trichlorobenzene	**1**	**20.8968**	**0**	**20**	**104**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**19.9394**	**0**	**20**	**100**	**70**	**130**
Naphthalene	1	19.8415	0	20	99	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99263

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M157504.D	AD28179-001(T:MS)	1/10/2022 4:12:00 PM
Non Spike(If applicable):	1M157499.D	AD28179-001(T)	1/10/2022 2:39:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	18.7546	0	20	94	50	150
Dichlorodifluoromethane	1	17.636	0	20	88	50	150
Chloromethane	1	21.6607	0	20	108	50	150
Bromomethane	1	20.2322	0	20	101	50	150
Vinyl Chloride	1	23.8892	0	20	119	50	150
Chloroethane	1	21.0382	0	20	105	50	150
Trichlorofluoromethane	1	24.6327	0	20	123	50	150
Ethyl ether	1	20.3092	0	20	102	50	150
Furan	1	21.3806	0	20	107	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.7106	0	20	119	50	150
Methylene Chloride	1	37.5132	26.8604	20	53*	70	130
Acrolein	1	111.285	0	100	111	50	150
Acrylonitrile	1	19.717	0	20	99	50	150
Iodomethane	1	23.6023	0	20	118	50	150
Acetone	1	114.6783	12.2183	100	102	50	150
Carbon Disulfide	1	22.8898	0	20	114	50	150
t-Butyl Alcohol	1	127.6824	0	100	128	50	150
n-Hexane	1	26.0228	0	20	130	70	130
Di-isopropyl-ether	1	22.6875	0	20	113	70	130
1,1-Dichloroethene	1	24.9534	0	20	125	70	130
Methyl Acetate	1	21.4605	0	20	107	50	150
Methyl-t-butyl ether	1	22.1559	0	20	111	70	130
1,1-Dichloroethane	1	22.1245	0	20	111	70	130
trans-1,2-Dichloroethene	1	23.41	0	20	117	70	130
Ethyl-t-butyl ether	1	21.7218	0	20	109	70	130
cis-1,2-Dichloroethene	1	21.9668	0	20	110	70	130
Bromochloromethane	1	19.8004	0	20	99	70	130
2,2-Dichloropropane	1	25.0761	0	20	125	70	130
Ethyl acetate	1	22.3677	0	20	112	50	150
1,4-Dioxane	1	1200.871	0	1000	120	50	150
1,1-Dichloropropene	1	25.4942	0	20	127	70	130
Chloroform	1	22.8915	2.4013	20	102	70	130
Cyclohexane	1	26.7347	0	20	134*	70	130
1,2-Dichloroethane	1	24.2704	0.5172	20	119	70	130
2-Butanone	1	21.7209	0	20	109	50	150
1,1,1-Trichloroethane	1	22.6298	0	20	113	70	130
Carbon Tetrachloride	1	23.7945	0	20	119	50	150
Vinyl Acetate	1	21.8694	0	20	109	50	150
Bromodichloromethane	1	23.1313	0	20	116	70	130
Methylcyclohexane	1	27.6037	0	20	138*	70	130
Dibromomethane	1	21.2556	0	20	106	70	130
1,2-Dichloropropane	1	21.2545	0	20	106	70	130
Trichloroethene	1	22.0669	0	20	110	70	130
Benzene	1	21.7549	0	20	109	70	130
tert-Amyl methyl ether	1	21.6889	0	20	108	70	130
Iso-propylacetate	1	22.0694	0	20	110	70	130
Methyl methacrylate	1	19.7693	0	20	99	70	130
Dibromochloromethane	1	20.6532	0	20	103	70	130
2-Chloroethylvinylether	1	29.2562	0	20	146*	70	130
cis-1,3-Dichloropropene	1	22.7992	0	20	114	70	130
trans-1,3-Dichloropropene	1	23.2901	0	20	116	70	130
Ethyl methacrylate	1	23.9866	0	20	120	70	130
1,1,2-Trichloroethane	1	21.7353	0	20	109	70	130
1,2-Dibromoethane	1	21.4694	0	20	107	70	130
1,3-Dichloropropane	1	21.258	0	20	106	70	130
4-Methyl-2-Pentanone	1	23.1958	0	20	116	50	150
2-Hexanone	1	22.8935	0	20	114	50	150
Tetrachloroethene	1	23.2258	0	20	116	50	150
Toluene	1	23.4148	0	20	117	70	130
1,1,1,2-Tetrachloroethane	1	22.2202	0	20	111	70	130
Chlorobenzene	1	23.0807	0	20	115	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99263

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	25.4392	0	20	127	70	130
n-Amyl acetate	1	25.3776	0	20	127	70	130
Bromoform	1	19.9995	0	20	100	70	130
Ethylbenzene	1	24.8513	0	20	124	70	130
1,1,2,2-Tetrachloroethane	1	20.4595	0	20	102	70	130
Styrene	1	24.358	0	20	122	70	130
m&p-Xylenes	1	47.7105	0	40	119	70	130
o-Xylene	1	23.6211	0	20	118	70	130
trans-1,4-Dichloro-2-butene	1	22.1915	0	20	111	50	150
1,3-Dichlorobenzene	1	22.4545	0	20	112	70	130
1,4-Dichlorobenzene	1	22.3682	0	20	112	70	130
1,2-Dichlorobenzene	1	22.0201	0	20	110	70	130
Isopropylbenzene	1	26.4644	0	20	132*	70	130
Cyclohexanone	1	118.3857	0	100	118	50	150
Camphene	1	29.4334	0	20	147*	70	130
1,2,3-Trichloropropane	1	21.8508	18.8139	20	15*	70	130
2-Chlorotoluene	1	23.3664	0	20	117	70	130
p-Ethyltoluene	1	24.5917	0	20	123	70	130
4-Chlorotoluene	1	23.503	0	20	118	70	130
n-Propylbenzene	1	25.709	0	20	129	70	130
Bromobenzene	1	24.4019	0	20	122	70	130
1,3,5-Trimethylbenzene	1	25.8293	0	20	129	70	130
Butyl methacrylate	1	24.606	0	20	123	70	130
t-Butylbenzene	1	26.0063	0	20	130	70	130
1,2,4-Trimethylbenzene	1	25.6796	0	20	128	70	130
sec-Butylbenzene	1	26.4965	0	20	132*	70	130
4-Isopropyltoluene	1	26.6661	0	20	133*	70	130
n-Butylbenzene	1	26.3023	0	20	132*	70	130
p-Diethylbenzene	1	24.9139	0	20	125	70	130
1,2,4,5-Tetramethylbenzene	1	21.7232	0	20	109	70	130
1,2-Dibromo-3-Chloropropane	1	19.8163	0	20	99	50	150
Camphor	1	223.2806	0	200	112	20	150
Hexachlorobutadiene	1	27.6083	0	20	138	50	150
1,2,4-Trichlorobenzene	1	22.5936	0	20	113	70	130
1,2,3-Trichlorobenzene	1	22.505	0	20	113	70	130
Naphthalene	1	22.5238	0	20	113	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99263

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M157505.D	AD28179-001(T:MSD)	1/10/2022 4:30:00 PM
Non Spike(If applicable):	1M157499.D	AD28179-001(T)	1/10/2022 2:39:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	18.2573	0	20	91	50	150
Dichlorodifluoromethane	1	17.8777	0	20	89	50	150
Chloromethane	1	20.9033	0	20	105	50	150
Bromomethane	1	19.9564	0	20	100	50	150
Vinyl Chloride	1	22.3127	0	20	112	50	150
Chloroethane	1	21.0492	0	20	105	50	150
Trichlorofluoromethane	1	23.822	0	20	119	50	150
Ethyl ether	1	18.4427	0	20	92	50	150
Furan	1	21.1348	0	20	106	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.9055	0	20	115	50	150
Methylene Chloride	1	37.8297	26.8604	20	55*	70	130
Acrolein	1	109.6077	0	100	110	50	150
Acrylonitrile	1	19.9086	0	20	100	50	150
Iodomethane	1	22.9963	0	20	115	50	150
Acetone	1	111.3015	12.2183	100	99	50	150
Carbon Disulfide	1	21.8544	0	20	109	50	150
t-Butyl Alcohol	1	122.3265	0	100	122	50	150
n-Hexane	1	26.4478	0	20	132*	70	130
Di-isopropyl-ether	1	21.9193	0	20	110	70	130
1,1-Dichloroethene	1	23.6574	0	20	118	70	130
Methyl Acetate	1	21.6525	0	20	108	50	150
Methyl-t-butyl ether	1	21.5997	0	20	108	70	130
1,1-Dichloroethane	1	20.5386	0	20	103	70	130
trans-1,2-Dichloroethene	1	21.4208	0	20	107	70	130
Ethyl-t-butyl ether	1	20.7923	0	20	104	70	130
cis-1,2-Dichloroethene	1	20.6643	0	20	103	70	130
Bromochloromethane	1	19.4011	0	20	97	70	130
2,2-Dichloropropane	1	23.637	0	20	118	70	130
Ethyl acetate	1	20.0371	0	20	100	50	150
1,4-Dioxane	1	1171.541	0	1000	117	50	150
1,1-Dichloropropene	1	24.3527	0	20	122	70	130
Chloroform	1	22.4312	2.4013	20	100	70	130
Cyclohexane	1	25.258	0	20	126	70	130
1,2-Dichloroethane	1	23.9997	0.5172	20	117	70	130
2-Butanone	1	20.9324	0	20	105	50	150
1,1,1-Trichloroethane	1	21.8638	0	20	109	70	130
Carbon Tetrachloride	1	22.8449	0	20	114	50	150
Vinyl Acetate	1	21.0681	0	20	105	50	150
Bromodichloromethane	1	22.257	0	20	111	70	130
Methylcyclohexane	1	27.7301	0	20	139*	70	130
Dibromomethane	1	20.886	0	20	104	70	130
1,2-Dichloropropane	1	21.9147	0	20	110	70	130
Trichloroethene	1	21.1893	0	20	106	70	130
Benzene	1	20.5848	0	20	103	70	130
tert-Amyl methyl ether	1	21.2515	0	20	106	70	130
Iso-propylacetate	1	21.5457	0	20	108	70	130
Methyl methacrylate	1	23.0131	0	20	115	70	130
Dibromochloromethane	1	19.9447	0	20	100	70	130
2-Chloroethylvinylether	1	26.0443	0	20	130	70	130
cis-1,3-Dichloropropene	1	22.7109	0	20	114	70	130
trans-1,3-Dichloropropene	1	22.7218	0	20	114	70	130
Ethyl methacrylate	1	23.5352	0	20	118	70	130
1,1,2-Trichloroethane	1	21.3972	0	20	107	70	130
1,2-Dibromoethane	1	21.3096	0	20	107	70	130
1,3-Dichloropropane	1	20.5487	0	20	103	70	130
4-Methyl-2-Pentanone	1	23.4365	0	20	117	50	150
2-Hexanone	1	23.2549	0	20	116	50	150
Tetrachloroethene	1	22.6421	0	20	113	50	150
Toluene	1	22.8602	0	20	114	70	130
1,1,1,2-Tetrachloroethane	1	21.3203	0	20	107	70	130
Chlorobenzene	1	22.2204	0	20	111	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99263

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	25.4676	0	20	127	70	130
n-Amyl acetate	1	25.2701	0	20	126	70	130
Bromoform	1	19.3576	0	20	97	70	130
Ethylbenzene	1	24.3747	0	20	122	70	130
1,1,2,2-Tetrachloroethane	1	19.9379	0	20	100	70	130
Styrene	1	24.416	0	20	122	70	130
m&p-Xylenes	1	47.2796	0	40	118	70	130
o-Xylene	1	24.5772	0	20	123	70	130
trans-1,4-Dichloro-2-butene	1	24.7196	0	20	124	50	150
1,3-Dichlorobenzene	1	22.8406	0	20	114	70	130
1,4-Dichlorobenzene	1	22.3567	0	20	112	70	130
1,2-Dichlorobenzene	1	21.425	0	20	107	70	130
Isopropylbenzene	1	26.4143	0	20	132*	70	130
Cyclohexanone	1	108.7365	0	100	109	50	150
Camphene	1	27.9621	0	20	140*	70	130
1,2,3-Trichloropropane	1	21.4173	18.8139	20	13*	70	130
2-Chlorotoluene	1	23.4472	0	20	117	70	130
p-Ethyltoluene	1	24.8469	0	20	124	70	130
4-Chlorotoluene	1	24.9893	0	20	125	70	130
n-Propylbenzene	1	25.9391	0	20	130	70	130
Bromobenzene	1	23.5758	0	20	118	70	130
1,3,5-Trimethylbenzene	1	25.5791	0	20	128	70	130
Butyl methacrylate	1	25.6941	0	20	128	70	130
t-Butylbenzene	1	26.3209	0	20	132*	70	130
1,2,4-Trimethylbenzene	1	26.3068	0	20	132*	70	130
sec-Butylbenzene	1	27.4309	0	20	137*	70	130
4-Isopropyltoluene	1	27.1962	0	20	136*	70	130
n-Butylbenzene	1	26.4717	0	20	132*	70	130
p-Diethylbenzene	1	25.4526	0	20	127	70	130
1,2,4,5-Tetramethylbenzene	1	22.1208	0	20	111	70	130
1,2-Dibromo-3-Chloropropane	1	20.5502	0	20	103	50	150
Camphor	1	218.3682	0	200	109	20	150
Hexachlorobutadiene	1	26.5101	0	20	133	50	150
1,2,4-Trichlorobenzene	1	22.8437	0	20	114	70	130
1,2,3-Trichlorobenzene	1	22.9702	0	20	115	70	130
Naphthalene	1	22.8291	0	20	114	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS99263

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M157505.D	AD28179-001(T:MSD)	1/10/2022 4:30:00 PM
Duplicate(If applicable):	1M157504.D	AD28179-001(T:MS)	1/10/2022 4:12:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	18.2573	18.7546	2.7	30
Dichlorodifluoromethane	**1**	**17.8777**	**17.636**	**1.4**	**30**
Chloromethane	**1**	**20.9033**	**21.6607**	**3.6**	**30**
Bromomethane	**1**	**19.9564**	**20.2322**	**1.4**	**30**
Vinyl Chloride	**1**	**22.3127**	**23.8892**	**6.8**	**40**
Chloroethane	**1**	**21.0492**	**21.0382**	**0.05**	**30**
Trichlorofluoromethane	**1**	**23.822**	**24.6327**	**3.3**	**30**
Ethyl ether	1	18.4427	20.3092	9.6	30
Furan	1	21.1348	21.3806	1.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**22.9055**	**23.7106**	**3.5**	**30**
Methylene Chloride	**1**	**37.8297**	**37.5132**	**0.84**	**30**
Acrolein	**1**	**109.6077**	**111.285**	**1.5**	**30**
Acrylonitrile	**1**	**19.9086**	**19.717**	**0.97**	**30**
Iodomethane	1	22.9963	23.6023	2.6	30
Acetone	**1**	**111.3015**	**114.6783**	**3**	**30**
Carbon Disulfide	**1**	**21.8544**	**22.8898**	**4.6**	**30**
t-Butyl Alcohol	**1**	**122.3265**	**127.6824**	**4.3**	**30**
n-Hexane	1	26.4478	26.0228	1.6	30
Di-isopropyl-ether	1	21.9193	22.6875	3.4	30
1,1-Dichloroethene	**1**	**23.6574**	**24.9534**	**5.3**	**40**
Methyl Acetate	**1**	**21.6525**	**21.4605**	**0.89**	**30**
Methyl-t-butyl ether	**1**	**21.5997**	**22.1559**	**2.5**	**30**
1,1-Dichloroethane	**1**	**20.5386**	**22.1245**	**7.4**	**40**
trans-1,2-Dichloroethene	**1**	**21.4208**	**23.41**	**8.9**	**30**
Ethyl-t-butyl ether	1	20.7923	21.7218	4.4	30
cis-1,2-Dichloroethene	**1**	**20.6643**	**21.9668**	**6.1**	**30**
Bromochloromethane	**1**	**19.4011**	**19.8004**	**2**	**30**
2,2-Dichloropropane	1	23.637	25.0761	5.9	30
Ethyl acetate	1	20.0371	22.3677	11	30
1,4-Dioxane	**1**	**1171.541**	**1200.871**	**2.5**	**30**
1,1-Dichloropropene	1	24.3527	25.4942	4.6	30
Chloroform	**1**	**22.4312**	**22.8915**	**2**	**40**
Cyclohexane	**1**	**25.258**	**26.7347**	**5.7**	**30**
1,2-Dichloroethane	**1**	**23.9997**	**24.2704**	**1.1**	**40**
2-Butanone	**1**	**20.9324**	**21.7209**	**3.7**	**40**
1,1,1-Trichloroethane	**1**	**21.8638**	**22.6298**	**3.4**	**30**
Carbon Tetrachloride	**1**	**22.8449**	**23.7945**	**4.1**	**40**
Vinyl Acetate	1	21.0681	21.8694	3.7	30
Bromodichloromethane	**1**	**22.257**	**23.1313**	**3.9**	**30**
Methylcyclohexane	**1**	**27.7301**	**27.6037**	**0.46**	**30**
Dibromomethane	1	20.886	21.2556	1.8	30
1,2-Dichloropropane	**1**	**21.9147**	**21.2545**	**3.1**	**30**
Trichloroethene	**1**	**21.1893**	**22.0669**	**4.1**	**40**
Benzene	**1**	**20.5848**	**21.7549**	**5.5**	**40**
tert-Amyl methyl ether	1	21.2515	21.6889	2	30
Iso-propylacetate	1	21.5457	22.0694	2.4	30
Methyl methacrylate	1	23.0131	19.7693	15	30
Dibromochloromethane	**1**	**19.9447**	**20.6532**	**3.5**	**30**
2-Chloroethylvinylether	1	26.0443	29.2562	12	30
cis-1,3-Dichloropropene	**1**	**22.7109**	**22.7992**	**0.39**	**30**
trans-1,3-Dichloropropene	**1**	**22.7218**	**23.2901**	**2.5**	**30**
Ethyl methacrylate	1	23.5352	23.9866	1.9	30
1,1,2-Trichloroethane	**1**	**21.3972**	**21.7353**	**1.6**	**30**
1,2-Dibromoethane	**1**	**21.3096**	**21.4694**	**0.75**	**30**
1,3-Dichloropropane	1	20.5487	21.258	3.4	30
4-Methyl-2-Pentanone	**1**	**23.4365**	**23.1958**	**1**	**30**
2-Hexanone	**1**	**23.2549**	**22.8935**	**1.6**	**30**
Tetrachloroethene	**1**	**22.6421**	**23.2258**	**2.5**	**40**
Toluene	**1**	**22.8602**	**23.4148**	**2.4**	**40**
1,1,1,2-Tetrachloroethane	1	21.3203	22.2202	4.1	30
Chlorobenzene	**1**	**22.2204**	**23.0807**	**3.8**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS99263

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	25.4676	25.4392	0.11	30
n-Amyl acetate	1	25.2701	25.3776	0.42	30
Bromoform	**1**	**19.3576**	**19.9995**	**3.3**	**30**
Ethylbenzene	**1**	**24.3747**	**24.8513**	**1.9**	**30**
1,1,2,2-Tetrachloroethane	**1**	**19.9379**	**20.4595**	**2.6**	**30**
Styrene	**1**	**24.416**	**24.358**	**0.24**	**30**
m&p-Xylenes	**1**	**47.2796**	**47.7105**	**0.91**	**30**
o-Xylene	**1**	**24.5772**	**23.6211**	**4**	**30**
trans-1,4-Dichloro-2-butene	1	24.7196	22.1915	11	30
1,3-Dichlorobenzene	**1**	**22.8406**	**22.4545**	**1.7**	**30**
1,4-Dichlorobenzene	**1**	**22.3567**	**22.3682**	**0.05**	**40**
1,2-Dichlorobenzene	**1**	**21.425**	**22.0201**	**2.7**	**40**
Isopropylbenzene	**1**	**26.4143**	**26.4644**	**0.19**	**30**
Cyclohexanone	1	108.7365	118.3857	8.5	30
Camphene	1	27.9621	29.4334	5.1	30
1,2,3-Trichloropropane	1	21.4173	21.8508	2	30
2-Chlorotoluene	1	23.4472	23.3664	0.35	30
p-Ethyltoluene	1	24.8469	24.5917	1	30
4-Chlorotoluene	1	24.9893	23.503	6.1	30
n-Propylbenzene	1	25.9391	25.709	0.89	40
Bromobenzene	1	23.5758	24.4019	3.4	30
1,3,5-Trimethylbenzene	1	25.5791	25.8293	0.97	30
Butyl methacrylate	1	25.6941	24.606	4.3	30
t-Butylbenzene	1	26.3209	26.0063	1.2	30
1,2,4-Trimethylbenzene	1	26.3068	25.6796	2.4	30
sec-Butylbenzene	1	27.4309	26.4965	3.5	40
4-Isopropyltoluene	1	27.1962	26.6661	2	30
n-Butylbenzene	1	26.4717	26.3023	0.64	30
p-Diethylbenzene	1	25.4526	24.9139	2.1	30
1,2,4,5-Tetramethylbenzene	1	22.1208	21.7232	1.8	30
1,2-Dibromo-3-Chloropropane	**1**	**20.5502**	**19.8163**	**3.6**	**30**
Camphor	1	218.3682	223.2806	2.2	30
Hexachlorobutadiene	1	26.5101	27.6083	4.1	30
1,2,4-Trichlorobenzene	**1**	**22.8437**	**22.5936**	**1.1**	**30**
1,2,3-Trichlorobenzene	**1**	**22.9702**	**22.505**	**2**	**30**
Naphthalene	1	22.8291	22.5238	1.3	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99274

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M162315.D	MBS99274	1/11/2022 2:15:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	12.5811	0	20	63	50	150
Dichlorodifluoromethane	**1**	**19.3317**	**0**	**20**	**97**	**50**	**150**
Chloromethane	**1**	**20.5182**	**0**	**20**	**103**	**50**	**150**
Bromomethane	**1**	**21.1616**	**0**	**20**	**106**	**50**	**150**
Vinyl Chloride	**1**	**21.5214**	**0**	**20**	**108**	**50**	**150**
Chloroethane	**1**	**23.1796**	**0**	**20**	**116**	**50**	**150**
Trichlorofluoromethane	**1**	**23.8042**	**0**	**20**	**119**	**50**	**150**
Ethyl ether	1	18.7673	0	20	94	50	150
Furan	1	17.8653	0	20	89	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**23.2968**	**0**	**20**	**116**	**50**	**150**
Methylene Chloride	**1**	**22.9882**	**0**	**20**	**115**	**70**	**130**
Acrolein	**1**	**89.1878**	**0**	**100**	**89**	**50**	**150**
Acrylonitrile	**1**	**19.5673**	**0**	**20**	**98**	**50**	**150**
Iodomethane	1	25.4085	0	20	127	50	150
Acetone	**1**	**98.2318**	**0**	**100**	**98**	**50**	**150**
Carbon Disulfide	**1**	**21.2596**	**0**	**20**	**106**	**50**	**150**
t-Butyl Alcohol	**1**	**86.9835**	**0**	**100**	**87**	**50**	**150**
n-Hexane	1	21.3602	0	20	107	70	130
Di-isopropyl-ether	1	21.5097	0	20	108	70	130
1,1-Dichloroethene	**1**	**22.3605**	**0**	**20**	**112**	**70**	**130**
Methyl Acetate	**1**	**20.8698**	**0**	**20**	**104**	**50**	**150**
Methyl-t-butyl ether	**1**	**21.6156**	**0**	**20**	**108**	**70**	**130**
1,1-Dichloroethane	**1**	**22.5593**	**0**	**20**	**113**	**70**	**130**
trans-1,2-Dichloroethene	**1**	**22.7439**	**0**	**20**	**114**	**70**	**130**
Ethyl-t-butyl ether	1	20.8371	0	20	104	70	130
cis-1,2-Dichloroethene	**1**	**21.955**	**0**	**20**	**110**	**70**	**130**
Bromochloromethane	**1**	**23.9392**	**0**	**20**	**120**	**70**	**130**
2,2-Dichloropropane	1	21.1188	0	20	106	70	130
Ethyl acetate	1	20.0823	0	20	100	50	150
1,4-Dioxane	**1**	**1004.984**	**0**	**1000**	**100**	**50**	**150**
1,1-Dichloropropene	1	22.7632	0	20	114	70	130
Chloroform	**1**	**23.1697**	**0**	**20**	**116**	**70**	**130**
Cyclohexane	**1**	**22.4006**	**0**	**20**	**112**	**70**	**130**
1,2-Dichloroethane	**1**	**21.9842**	**0**	**20**	**110**	**70**	**130**
2-Butanone	**1**	**18.916**	**0**	**20**	**95**	**50**	**150**
1,1,1-Trichloroethane	**1**	**22.6967**	**0**	**20**	**113**	**70**	**130**
Carbon Tetrachloride	**1**	**23.279**	**0**	**20**	**116**	**50**	**150**
Vinyl Acetate	1	20.2776	0	20	101	50	150
Bromodichloromethane	**1**	**22.5303**	**0**	**20**	**113**	**70**	**130**
Methylcyclohexane	**1**	**23.4231**	**0**	**20**	**117**	**70**	**130**
Dibromomethane	1	23.4725	0	20	117	70	130
1,2-Dichloropropane	**1**	**22.8504**	**0**	**20**	**114**	**70**	**130**
Trichloroethene	**1**	**23.6332**	**0**	**20**	**118**	**70**	**130**
Benzene	**1**	**23.0432**	**0**	**20**	**115**	**70**	**130**
tert-Amyl methyl ether	1	20.5768	0	20	103	70	130
Iso-propylacetate	1	19.0313	0	20	95	70	130
Methyl methacrylate	1	20.4689	0	20	102	70	130
Dibromochloromethane	**1**	**22.7092**	**0**	**20**	**114**	**70**	**130**
2-Chloroethylvinylether	1	19.3612	0	20	97	70	130
cis-1,3-Dichloropropene	**1**	**21.3054**	**0**	**20**	**107**	**70**	**130**
trans-1,3-Dichloropropene	**1**	**20.3955**	**0**	**20**	**102**	**70**	**130**
Ethyl methacrylate	1	19.7575	0	20	99	70	130
1,1,2-Trichloroethane	**1**	**21.8636**	**0**	**20**	**109**	**70**	**130**
1,2-Dibromoethane	**1**	**22.2882**	**0**	**20**	**111**	**70**	**130**
1,3-Dichloropropane	1	23.9355	0	20	120	70	130
4-Methyl-2-Pentanone	**1**	**18.9516**	**0**	**20**	**95**	**50**	**150**
2-Hexanone	**1**	**18.4603**	**0**	**20**	**92**	**50**	**150**
Tetrachloroethene	**1**	**22.9077**	**0**	**20**	**115**	**50**	**150**
Toluene	**1**	**22.2243**	**0**	**20**	**111**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	21.9645	0	20	110	70	130
Chlorobenzene	**1**	**22.4359**	**0**	**20**	**112**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99274

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	19.2743	0	20	96	70	130
n-Amyl acetate	1	18.9114	0	20	95	70	130
Bromoform	**1**	**20.347**	**0**	**20**	**102**	**70**	**130**
Ethylbenzene	**1**	**20.8921**	**0**	**20**	**104**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**20.2936**	**0**	**20**	**101**	**70**	**130**
Styrene	**1**	**22.0769**	**0**	**20**	**110**	**70**	**130**
m&p-Xylenes	**1**	**42.969**	**0**	**40**	**107**	**70**	**130**
o-Xylene	**1**	**21.5187**	**0**	**20**	**108**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	17.8849	0	20	89	50	150
1,3-Dichlorobenzene	**1**	**21.9454**	**0**	**20**	**110**	**70**	**130**
1,4-Dichlorobenzene	**1**	**21.8515**	**0**	**20**	**109**	**70**	**130**
1,2-Dichlorobenzene	**1**	**21.9578**	**0**	**20**	**110**	**70**	**130**
Isopropylbenzene	**1**	**22.1509**	**0**	**20**	**111**	**70**	**130**
Cyclohexanone	1	91.728	0	100	92	50	150
Camphene	1	21.6204	0	20	108	70	130
1,2,3-Trichloropropane	1	19.429	0	20	97	70	130
2-Chlorotoluene	1	21.6965	0	20	108	70	130
p-Ethyltoluene	1	20.3652	0	20	102	70	130
4-Chlorotoluene	1	21.3612	0	20	107	70	130
n-Propylbenzene	1	21.8006	0	20	109	70	130
Bromobenzene	1	21.1432	0	20	106	70	130
1,3,5-Trimethylbenzene	1	21.0327	0	20	105	70	130
Butyl methacrylate	1	18.7394	0	20	94	70	130
t-Butylbenzene	1	21.8685	0	20	109	70	130
1,2,4-Trimethylbenzene	1	21.6843	0	20	108	70	130
sec-Butylbenzene	1	22.1907	0	20	111	70	130
4-Isopropyltoluene	1	21.3623	0	20	107	70	130
n-Butylbenzene	1	21.5385	0	20	108	70	130
p-Diethylbenzene	1	20.8255	0	20	104	70	130
1,2,4,5-Tetramethylbenzene	1	19.3785	0	20	97	70	130
1,2-Dibromo-3-Chloropropane	**1**	**18.4097**	**0**	**20**	**92**	**50**	**150**
Camphor	1	170.1269	0	200	85	20	150
Hexachlorobutadiene	1	22.58	0	20	113	50	150
1,2,4-Trichlorobenzene	**1**	**22.6408**	**0**	**20**	**113**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**22.3751**	**0**	**20**	**112**	**70**	**130**
Naphthalene	1	21.7896	0	20	109	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99274

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162317.D	AD28235-008(MS)	1/11/2022 2:54:00 PM
Non Spike(If applicable):	2M162304.D	AD28235-008	1/11/2022 10:37:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	13.2125	0	20	66	50	150
Dichlorodifluoromethane	**1**	**20.6651**	**0**	**20**	**103**	**50**	**150**
Chloromethane	**1**	**21.6453**	**0**	**20**	**108**	**50**	**150**
Bromomethane	**1**	**20.5116**	**0**	**20**	**103**	**50**	**150**
Vinyl Chloride	**1**	**23.3537**	**0**	**20**	**117**	**50**	**150**
Chloroethane	**1**	**23.6513**	**0**	**20**	**118**	**50**	**150**
Trichlorofluoromethane	**1**	**25.6011**	**0**	**20**	**128**	**50**	**150**
Ethyl ether	1	19.0414	0	20	95	50	150
Furan	1	18.7827	0	20	94	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**25.0155**	**0**	**20**	**125**	**50**	**150**
Methylene Chloride	**1**	**24.4417**	**0**	**20**	**122**	**70**	**130**
Acrolein	**1**	**91.3024**	**0**	**100**	**91**	**50**	**150**
Acrylonitrile	**1**	**19.6978**	**0**	**20**	**98**	**50**	**150**
Iodomethane	1	30.915	0	20	155 *	50	150
Acetone	**1**	**95.9674**	**0**	**100**	**96**	**50**	**150**
Carbon Disulfide	**1**	**24.035**	**0**	**20**	**120**	**50**	**150**
t-Butyl Alcohol	**1**	**90.9225**	**0**	**100**	**91**	**50**	**150**
n-Hexane	1	23.1176	0	20	116	70	130
Di-isopropyl-ether	1	22.0458	0	20	110	70	130
1,1-Dichloroethene	**1**	**23.9044**	**0**	**20**	**120**	**70**	**130**
Methyl Acetate	**1**	**19.0662**	**0**	**20**	**95**	**50**	**150**
Methyl-t-butyl ether	**1**	**22.5561**	**0**	**20**	**113**	**70**	**130**
1,1-Dichloroethane	**1**	**23.6818**	**0**	**20**	**118**	**70**	**130**
trans-1,2-Dichloroethene	**1**	**23.6708**	**0**	**20**	**118**	**70**	**130**
Ethyl-t-butyl ether	1	21.1061	0	20	106	70	130
cis-1,2-Dichloroethene	**1**	**23.0154**	**0**	**20**	**115**	**70**	**130**
Bromochloromethane	**1**	**24.3096**	**0**	**20**	**122**	**70**	**130**
2,2-Dichloropropane	1	22.6051	0	20	113	70	130
Ethyl acetate	1	19.6234	0	20	98	50	150
1,4-Dioxane	**1**	**1025.307**	**0**	**1000**	**103**	**50**	**150**
1,1-Dichloropropene	1	24.5739	0	20	123	70	130
Chloroform	**1**	**24.0283**	**0**	**20**	**120**	**70**	**130**
Cyclohexane	**1**	**23.9923**	**0**	**20**	**120**	**70**	**130**
1,2-Dichloroethane	**1**	**22.3923**	**0**	**20**	**112**	**70**	**130**
2-Butanone	**1**	**18.8973**	**0**	**20**	**94**	**50**	**150**
1,1,1-Trichloroethane	**1**	**24.2747**	**0**	**20**	**121**	**70**	**130**
Carbon Tetrachloride	**1**	**25.4301**	**0**	**20**	**127**	**50**	**150**
Vinyl Acetate	1	21.0873	0	20	105	50	150
Bromodichloromethane	**1**	**23.2806**	**0**	**20**	**116**	**70**	**130**
Methylcyclohexane	**1**	**24.7457**	**0**	**20**	**124**	**70**	**130**
Dibromomethane	1	24.5923	0	20	123	70	130
1,2-Dichloropropane	**1**	**23.6347**	**0**	**20**	**118**	**70**	**130**
Trichloroethene	**1**	**25.2988**	**0**	**20**	**126**	**70**	**130**
Benzene	**1**	**24.0861**	**0**	**20**	**120**	**70**	**130**
tert-Amyl methyl ether	1	21.1408	0	20	106	70	130
Iso-propylacetate	1	19.2234	0	20	96	70	130
Methyl methacrylate	1	20.3893	0	20	102	70	130
Dibromochloromethane	**1**	**22.9851**	**0**	**20**	**115**	**70**	**130**
2-Chloroethylvinylether	1	3.2233	0	20	16 *	70	130
cis-1,3-Dichloropropene	**1**	**22.157**	**0**	**20**	**111**	**70**	**130**
trans-1,3-Dichloropropene	**1**	**21.402**	**0**	**20**	**107**	**70**	**130**
Ethyl methacrylate	1	20.1482	0	20	101	70	130
1,1,2-Trichloroethane	**1**	**23.0744**	**0**	**20**	**115**	**70**	**130**
1,2-Dibromoethane	**1**	**22.524**	**0**	**20**	**113**	**70**	**130**
1,3-Dichloropropane	1	23.4399	0	20	117	70	130
4-Methyl-2-Pentanone	**1**	**19.5816**	**0**	**20**	**98**	**50**	**150**
2-Hexanone	**1**	**18.8759**	**0**	**20**	**94**	**50**	**150**
Tetrachloroethene	**1**	**23.9196**	**0**	**20**	**120**	**50**	**150**
Toluene	**1**	**22.8091**	**0**	**20**	**114**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	22.7681	0	20	114	70	130
Chlorobenzene	**1**	**23.1917**	**0**	**20**	**116**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99274

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	19.0677	0	20	95	70	130
n-Amyl acetate	1	18.5051	0	20	93	70	130
Bromoform	**1**	**20.683**	**0**	**20**	**103**	**70**	**130**
Ethylbenzene	**1**	**21.209**	**0**	**20**	**106**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**20.9924**	**0**	**20**	**105**	**70**	**130**
Styrene	**1**	**21.9223**	**0**	**20**	**110**	**70**	**130**
m&p-Xylenes	**1**	**43.9917**	**0**	**40**	**110**	**70**	**130**
o-Xylene	**1**	**21.8164**	**0**	**20**	**109**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	13.568	0	20	68	50	150
1,3-Dichlorobenzene	**1**	**22.0249**	**0**	**20**	**110**	**70**	**130**
1,4-Dichlorobenzene	**1**	**21.9613**	**0**	**20**	**110**	**70**	**130**
1,2-Dichlorobenzene	**1**	**22.2935**	**0**	**20**	**111**	**70**	**130**
Isopropylbenzene	**1**	**22.7882**	**0**	**20**	**114**	**70**	**130**
Cyclohexanone	1	62.3137	0	100	62	50	150
Camphene	1	4.7794	0	20	24 *	70	130
1,2,3-Trichloropropane	1	18.9044	0	20	95	70	130
2-Chlorotoluene	1	22.0765	0	20	110	70	130
p-Ethyltoluene	1	21.2536	0	20	106	70	130
4-Chlorotoluene	1	21.2927	0	20	106	70	130
n-Propylbenzene	1	22.7315	0	20	114	70	130
Bromobenzene	1	19.4704	0	20	97	70	130
1,3,5-Trimethylbenzene	1	21.2801	0	20	106	70	130
Butyl methacrylate	1	18.9076	0	20	95	70	130
t-Butylbenzene	1	22.6898	0	20	113	70	130
1,2,4-Trimethylbenzene	1	21.847	0	20	109	70	130
sec-Butylbenzene	1	23.2421	0	20	116	70	130
4-Isopropyltoluene	1	22.2152	0	20	111	70	130
n-Butylbenzene	1	22.7348	0	20	114	70	130
p-Diethylbenzene	1	21.4177	0	20	107	70	130
1,2,4,5-Tetramethylbenzene	1	20.0194	0	20	100	70	130
1,2-Dibromo-3-Chloropropane	**1**	**18.4615**	**0**	**20**	**92**	**50**	**150**
Camphor	1	170.1516	0	200	85	20	150
Hexachlorobutadiene	1	25.2669	0	20	126	50	150
1,2,4-Trichlorobenzene	**1**	**23.3772**	**0**	**20**	**117**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**22.6635**	**0**	**20**	**113**	**70**	**130**
Naphthalene	1	21.235	0	20	106	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99274

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162318.D	AD28235-008(MSD)	1/11/2022 3:14:00 PM
Non Spike(If applicable):	2M162304.D	AD28235-008	1/11/2022 10:37:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.9824	0	20	60	50	150
Dichlorodifluoromethane	1	18.9398	0	20	95	50	150
Chloromethane	1	19.5944	0	20	98	50	150
Bromomethane	1	19.3743	0	20	97	50	150
Vinyl Chloride	1	20.8536	0	20	104	50	150
Chloroethane	1	21.2711	0	20	106	50	150
Trichlorofluoromethane	1	23.9495	0	20	120	50	150
Ethyl ether	1	17.6879	0	20	88	50	150
Furan	1	17.381	0	20	87	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.1082	0	20	116	50	150
Methylene Chloride	1	22.5138	0	20	113	70	130
Acrolein	1	86.2554	0	100	86	50	150
Acrylonitrile	1	17.9681	0	20	90	50	150
Iodomethane	1	27.7742	0	20	139	50	150
Acetone	1	86.1348	0	100	86	50	150
Carbon Disulfide	1	20.4937	0	20	102	50	150
t-Butyl Alcohol	1	81.8705	0	100	82	50	150
n-Hexane	1	23.3644	0	20	117	70	130
Di-isopropyl-ether	1	20.1843	0	20	101	70	130
1,1-Dichloroethene	1	21.6588	0	20	108	70	130
Methyl Acetate	1	17.2821	0	20	86	50	150
Methyl-t-butyl ether	1	20.7286	0	20	104	70	130
1,1-Dichloroethane	1	21.7188	0	20	109	70	130
trans-1,2-Dichloroethene	1	21.918	0	20	110	70	130
Ethyl-t-butyl ether	1	19.6536	0	20	98	70	130
cis-1,2-Dichloroethene	1	20.7089	0	20	104	70	130
Bromochloromethane	1	22.7294	0	20	114	70	130
2,2-Dichloropropane	1	20.8442	0	20	104	70	130
Ethyl acetate	1	18.9705	0	20	95	50	150
1,4-Dioxane	1	928.6305	0	1000	93	50	150
1,1-Dichloropropene	1	22.5695	0	20	113	70	130
Chloroform	1	22.4099	0	20	112	70	130
Cyclohexane	1	23.4437	0	20	117	70	130
1,2-Dichloroethane	1	20.8343	0	20	104	70	130
2-Butanone	1	17.3255	0	20	87	50	150
1,1,1-Trichloroethane	1	22.7044	0	20	114	70	130
Carbon Tetrachloride	1	23.846	0	20	119	50	150
Vinyl Acetate	1	19.4575	0	20	97	50	150
Bromodichloromethane	1	21.6172	0	20	108	70	130
Methylcyclohexane	1	25.1517	0	20	126	70	130
Dibromomethane	1	22.8448	0	20	114	70	130
1,2-Dichloropropane	1	22.04	0	20	110	70	130
Trichloroethene	1	22.8195	0	20	114	70	130
Benzene	1	22.2878	0	20	111	70	130
tert-Amyl methyl ether	1	19.6383	0	20	98	70	130
Iso-propylacetate	1	17.4504	0	20	87	70	130
Methyl methacrylate	1	17.1529	0	20	86	70	130
Dibromochloromethane	1	21.6779	0	20	108	70	130
2-Chloroethylvinylether	1	2.0979	0	20	10*	70	130
cis-1,3-Dichloropropene	1	20.2118	0	20	101	70	130
trans-1,3-Dichloropropene	1	19.8042	0	20	99	70	130
Ethyl methacrylate	1	18.6757	0	20	93	70	130
1,1,2-Trichloroethane	1	21.0416	0	20	105	70	130
1,2-Dibromoethane	1	21.2046	0	20	106	70	130
1,3-Dichloropropane	1	21.4538	0	20	107	70	130
4-Methyl-2-Pentanone	1	17.828	0	20	89	50	150
2-Hexanone	1	17.6361	0	20	88	50	150
Tetrachloroethene	1	22.891	0	20	114	50	150
Toluene	1	21.4511	0	20	107	70	130
1,1,1,2-Tetrachloroethane	1	20.9924	0	20	105	70	130
Chlorobenzene	1	21.7035	0	20	109	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99274

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	17.5265	0	20	88	70	130
n-Amyl acetate	1	16.9438	0	20	85	70	130
Bromoform	1	19.3426	0	20	97	70	130
Ethylbenzene	1	20.2357	0	20	101	70	130
1,1,2,2-Tetrachloroethane	1	18.6841	0	20	93	70	130
Styrene	1	20.1593	0	20	101	70	130
m&p-Xylenes	1	40.9214	0	40	102	70	130
o-Xylene	1	20.3335	0	20	102	70	130
trans-1,4-Dichloro-2-butene	1	12.5471	0	20	63	50	150
1,3-Dichlorobenzene	1	21.0874	0	20	105	70	130
1,4-Dichlorobenzene	1	20.5618	0	20	103	70	130
1,2-Dichlorobenzene	1	20.7131	0	20	104	70	130
Isopropylbenzene	1	21.8966	0	20	109	70	130
Cyclohexanone	1	58.962	0	100	59	50	150
Camphene	1	4.5165	0	20	23*	70	130
1,2,3-Trichloropropane	1	17.1797	0	20	86	70	130
2-Chlorotoluene	1	20.752	0	20	104	70	130
p-Ethyltoluene	1	20.33	0	20	102	70	130
4-Chlorotoluene	1	19.3069	0	20	97	70	130
n-Propylbenzene	1	21.6598	0	20	108	70	130
Bromobenzene	1	17.919	0	20	90	70	130
1,3,5-Trimethylbenzene	1	19.9169	0	20	100	70	130
Butyl methacrylate	1	18.5097	0	20	93	70	130
t-Butylbenzene	1	22.0331	0	20	110	70	130
1,2,4-Trimethylbenzene	1	20.9084	0	20	105	70	130
sec-Butylbenzene	1	22.3438	0	20	112	70	130
4-Isopropyltoluene	1	21.3532	0	20	107	70	130
n-Butylbenzene	1	21.4474	0	20	107	70	130
p-Diethylbenzene	1	20.0485	0	20	100	70	130
1,2,4,5-Tetramethylbenzene	1	18.2822	0	20	91	70	130
1,2-Dibromo-3-Chloropropane	1	16.9833	0	20	85	50	150
Camphor	1	157.0109	0	200	79	20	150
Hexachlorobutadiene	1	20.5961	0	20	103	50	150
1,2,4-Trichlorobenzene	1	21.5626	0	20	108	70	130
1,2,3-Trichlorobenzene	1	21.4097	0	20	107	70	130
Naphthalene	1	19.1412	0	20	96	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS99274

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162318.D	AD28235-008(MSD)	1/11/2022 3:14:00 PM
Duplicate(If applicable):	2M162317.D	AD28235-008(MS)	1/11/2022 2:54:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	11.9824	13.2125	9.8	30
Dichlorodifluoromethane	1	18.9398	20.6651	8.7	30
Chloromethane	1	19.5944	21.6453	9.9	30
Bromomethane	1	19.3743	20.5116	5.7	30
Vinyl Chloride	1	20.8536	23.3537	11	40
Chloroethane	1	21.2711	23.6513	11	30
Trichlorofluoromethane	1	23.9495	25.6011	6.7	30
Ethyl ether	1	17.6879	19.0414	7.4	30
Furan	1	17.381	18.7827	7.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.1082	25.0155	7.9	30
Methylene Chloride	1	22.5138	24.4417	8.2	30
Acrolein	1	86.2554	91.3024	5.7	30
Acrylonitrile	1	17.9681	19.6978	9.2	30
Iodomethane	1	27.7742	30.915	11	30
Acetone	1	86.1348	95.9674	11	30
Carbon Disulfide	1	20.4937	24.035	16	30
t-Butyl Alcohol	1	81.8705	90.9225	10	30
n-Hexane	1	23.3644	23.1176	1.1	30
Di-isopropyl-ether	1	20.1843	22.0458	8.8	30
1,1-Dichloroethene	1	21.6588	23.9044	9.9	40
Methyl Acetate	1	17.2821	19.0662	9.8	30
Methyl-t-butyl ether	1	20.7286	22.5561	8.4	30
1,1-Dichloroethane	1	21.7188	23.6818	8.6	40
trans-1,2-Dichloroethene	1	21.918	23.6708	7.7	30
Ethyl-t-butyl ether	1	19.6536	21.1061	7.1	30
cis-1,2-Dichloroethene	1	20.7089	23.0154	11	30
Bromochloromethane	1	22.7294	24.3096	6.7	30
2,2-Dichloropropane	1	20.8442	22.6051	8.1	30
Ethyl acetate	1	18.9705	19.6234	3.4	30
1,4-Dioxane	1	928.6305	1025.307	9.9	30
1,1-Dichloropropene	1	22.5695	24.5739	8.5	30
Chloroform	1	22.4099	24.0283	7	40
Cyclohexane	1	23.4437	23.9923	2.3	30
1,2-Dichloroethane	1	20.8343	22.3923	7.2	40
2-Butanone	1	17.3255	18.8973	8.7	40
1,1,1-Trichloroethane	1	22.7044	24.2747	6.7	30
Carbon Tetrachloride	1	23.846	25.4301	6.4	40
Vinyl Acetate	1	19.4575	21.0873	8	30
Bromodichloromethane	1	21.6172	23.2806	7.4	30
Methylcyclohexane	1	25.1517	24.7457	1.6	30
Dibromomethane	1	22.8448	24.5923	7.4	30
1,2-Dichloropropane	1	22.04	23.6347	7	30
Trichloroethene	1	22.8195	25.2988	10	40
Benzene	1	22.2878	24.0861	7.8	40
tert-Amyl methyl ether	1	19.6383	21.1408	7.4	30
Iso-propylacetate	1	17.4504	19.2234	9.7	30
Methyl methacrylate	1	17.1529	20.3893	17	30
Dibromochloromethane	1	21.6779	22.9851	5.9	30
2-Chloroethylvinylether	1	2.0979	3.2233	42*	30
cis-1,3-Dichloropropene	1	20.2118	22.157	9.2	30
trans-1,3-Dichloropropene	1	19.8042	21.402	7.8	30
Ethyl methacrylate	1	18.6757	20.1482	7.6	30
1,1,2-Trichloroethane	1	21.0416	23.0744	9.2	30
1,2-Dibromoethane	1	21.2046	22.524	6	30
1,3-Dichloropropane	1	21.4538	23.4399	8.8	30
4-Methyl-2-Pentanone	1	17.828	19.5816	9.4	30
2-Hexanone	1	17.6361	18.8759	6.8	30
Tetrachloroethene	1	22.891	23.9196	4.4	40
Toluene	1	21.4511	22.8091	6.1	40
1,1,1,2-Tetrachloroethane	1	20.9924	22.7681	8.1	30
Chlorobenzene	1	21.7035	23.1917	6.6	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS99274

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	17.5265	19.0677	8.4	30
n-Amyl acetate	1	16.9438	18.5051	8.8	30
Bromoform	**1**	**19.3426**	**20.683**	**6.7**	**30**
Ethylbenzene	**1**	**20.2357**	**21.209**	**4.7**	**30**
1,1,2,2-Tetrachloroethane	**1**	**18.6841**	**20.9924**	**12**	**30**
Styrene	**1**	**20.1593**	**21.9223**	**8.4**	**30**
m&p-Xylenes	**1**	**40.9214**	**43.9917**	**7.2**	**30**
o-Xylene	**1**	**20.3335**	**21.8164**	**7**	**30**
trans-1,4-Dichloro-2-butene	1	12.5471	13.568	7.8	30
1,3-Dichlorobenzene	**1**	**21.0874**	**22.0249**	**4.3**	**30**
1,4-Dichlorobenzene	**1**	**20.5618**	**21.9613**	**6.6**	**40**
1,2-Dichlorobenzene	**1**	**20.7131**	**22.2935**	**7.3**	**40**
Isopropylbenzene	**1**	**21.8966**	**22.7882**	**4**	**30**
Cyclohexanone	1	58.962	62.3137	5.5	30
Camphene	1	4.5165	4.7794	5.7	30
1,2,3-Trichloropropane	1	17.1797	18.9044	9.6	30
2-Chlorotoluene	1	20.752	22.0765	6.2	30
p-Ethyltoluene	1	20.33	21.2536	4.4	30
4-Chlorotoluene	1	19.3069	21.2927	9.8	30
n-Propylbenzene	1	21.6598	22.7315	4.8	40
Bromobenzene	1	17.919	19.4704	8.3	30
1,3,5-Trimethylbenzene	1	19.9169	21.2801	6.6	30
Butyl methacrylate	1	18.5097	18.9076	2.1	30
t-Butylbenzene	1	22.0331	22.6898	2.9	30
1,2,4-Trimethylbenzene	1	20.9084	21.847	4.4	30
sec-Butylbenzene	1	22.3438	23.2421	3.9	40
4-Isopropyltoluene	1	21.3532	22.2152	4	30
n-Butylbenzene	1	21.4474	22.7348	5.8	30
p-Diethylbenzene	1	20.0485	21.4177	6.6	30
1,2,4,5-Tetramethylbenzene	1	18.2822	20.0194	9.1	30
1,2-Dibromo-3-Chloropropane	**1**	**16.9833**	**18.4615**	**8.3**	**30**
Camphor	1	157.0109	170.1516	8	30
Hexachlorobutadiene	1	20.5961	25.2669	20	30
1,2,4-Trichlorobenzene	**1**	**21.5626**	**23.3772**	**8.1**	**30**
1,2,3-Trichlorobenzene	**1**	**21.4097**	**22.6635**	**5.7**	**30**
Naphthalene	1	19.1412	21.235	10	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M157497.D
Matrix: Aqueous

Blank Analysis Date: 01/10/22 14:01
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD28235-001	1M157526.D	01/10/22 23:01
AD28235-002	1M157527.D	01/10/22 23:19
AD28235-009	1M157513.D	01/10/22 18:59
AD28179-001(T:M	1M157505.D	01/10/22 16:30
AD28179-001(T:M	1M157504.D	01/10/22 16:12
MBS99263	1M157502.D	01/10/22 15:34
AD28179-001(T)	1M157499.D	01/10/22 14:39

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M162302.D
Matrix: Aqueous

Blank Analysis Date: 01/11/22 09:58
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD28235-003	2M162306.D	01/11/22 11:17
AD28235-004(5X)	2M162310.D	01/11/22 12:36
AD28235-005(5X)	2M162324.D	01/11/22 17:13
AD28235-006	2M162307.D	01/11/22 11:37
AD28235-007	2M162308.D	01/11/22 11:57
AD28235-008	2M162304.D	01/11/22 10:37
AD28235-008(MSD	2M162318.D	01/11/22 15:14
MBS99274	2M162315.D	01/11/22 14:15
AD28235-008(MS)	2M162317.D	01/11/22 14:54

Form 5

Tune Name: BFB TUNE
Instrument: GCMS I
Data File: 1M157103.D
Analysis Date: 12/29/21 13:48
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.579 to 7.588 min

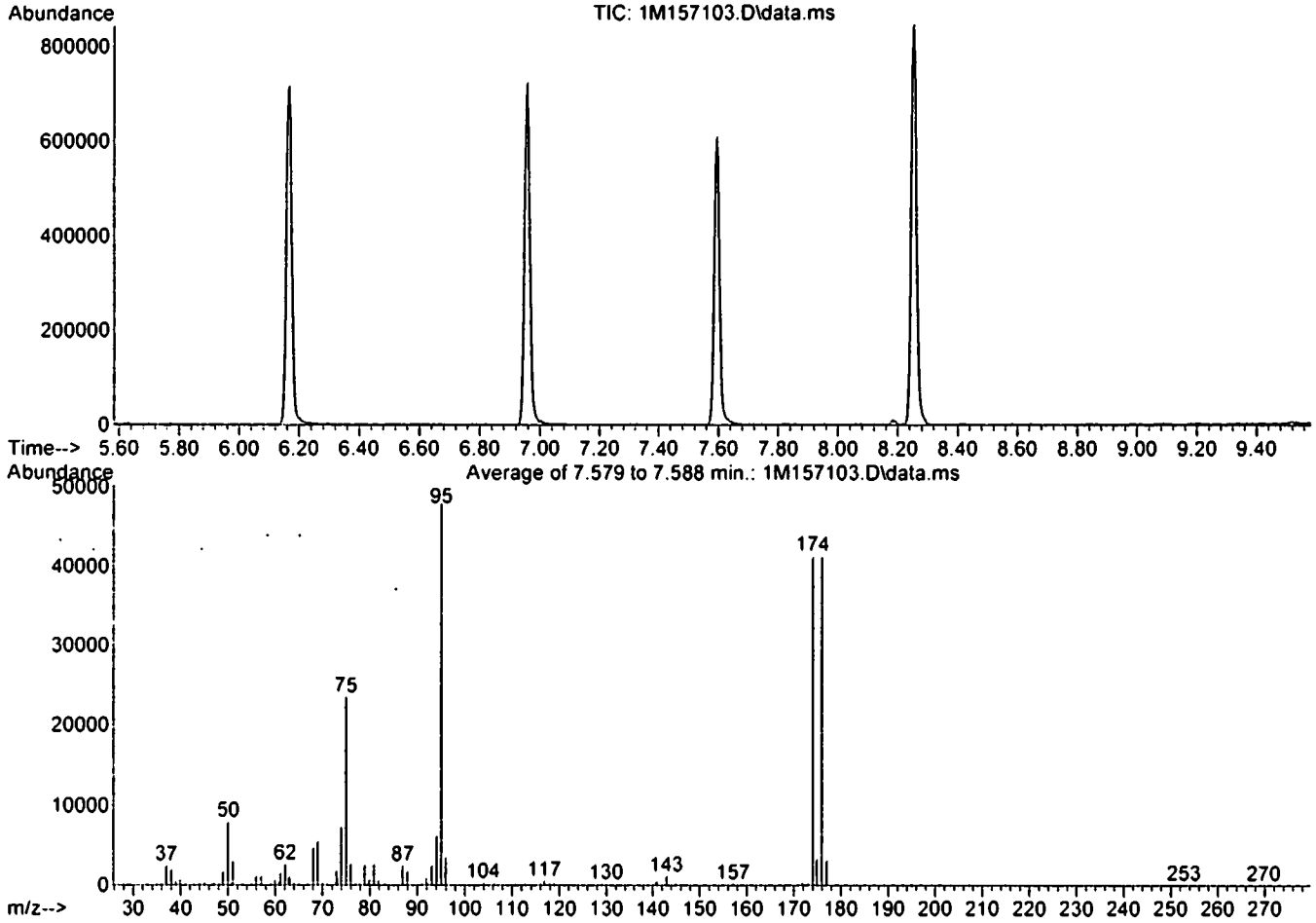
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.6	7974	PASS
75	95	30	60	49.1	23514	PASS
95	95	100	100	100.0	47901	PASS
96	95	5	9	7.3	3491	PASS
173	174	0.00	2	0.8	341	PASS
174	95	50	100	86.4	41370	PASS
175	174	5	9	8.2	3407	PASS
176	174	95	101	99.7	41225	PASS
177	176	5	9	7.7	3193	PASS

Data File	Sample Number	Analysis Date:
1M157107.D	CAL @ 0.5 PPB	12/29/21 15:03
1M157108.D	CAL @ 1 PPB	12/29/21 15:22
1M157109.D	CAL @ 5 PPB	12/29/21 15:40
1M157110.D	CAL @ 10 PPB	12/29/21 15:59
1M157111.D	CAL @ 20 PPB	12/29/21 16:18
1M157112.D	CAL @ 50 PPB	12/29/21 16:37
1M157113.D	CAL @ 100 PPB	12/29/21 16:56
1M157116.D	250 PPB	12/29/21 17:51
1M157117.D	250 PPB	12/29/21 18:10
1M157119.D	500 PPB	12/29/21 18:47
1M157126.D	ICV	12/29/21 20:58

Data Path : G:\GcMsData\2021\GCMS_1\Data\12-29-21\
Data File : 1M157103.D
Acq On : 29 Dec 2021 13:48
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_A1229.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Dec 30 13:12:46 2021



Spectrum Information: Average of 7.579 to 7.588 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	7974	PASS
75	95	30	60	49.1	23514	PASS
95	95	100	100	100.0	47901	PASS
96	95	5	9	7.3	3491	PASS
173	174	0.00	2	0.8	341	PASS
174	95	50	100	86.4	41370	PASS
175	174	5	9	8.2	3407	PASS
176	174	95	101	99.7	41225	PASS
177	176	5	9	7.7	3193	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M161959.D
Analysis Date: 01/03/22 21:18
Method: EPA 8260D
Tune Scan/Time Range: Average of 7.330 to 7.373 min

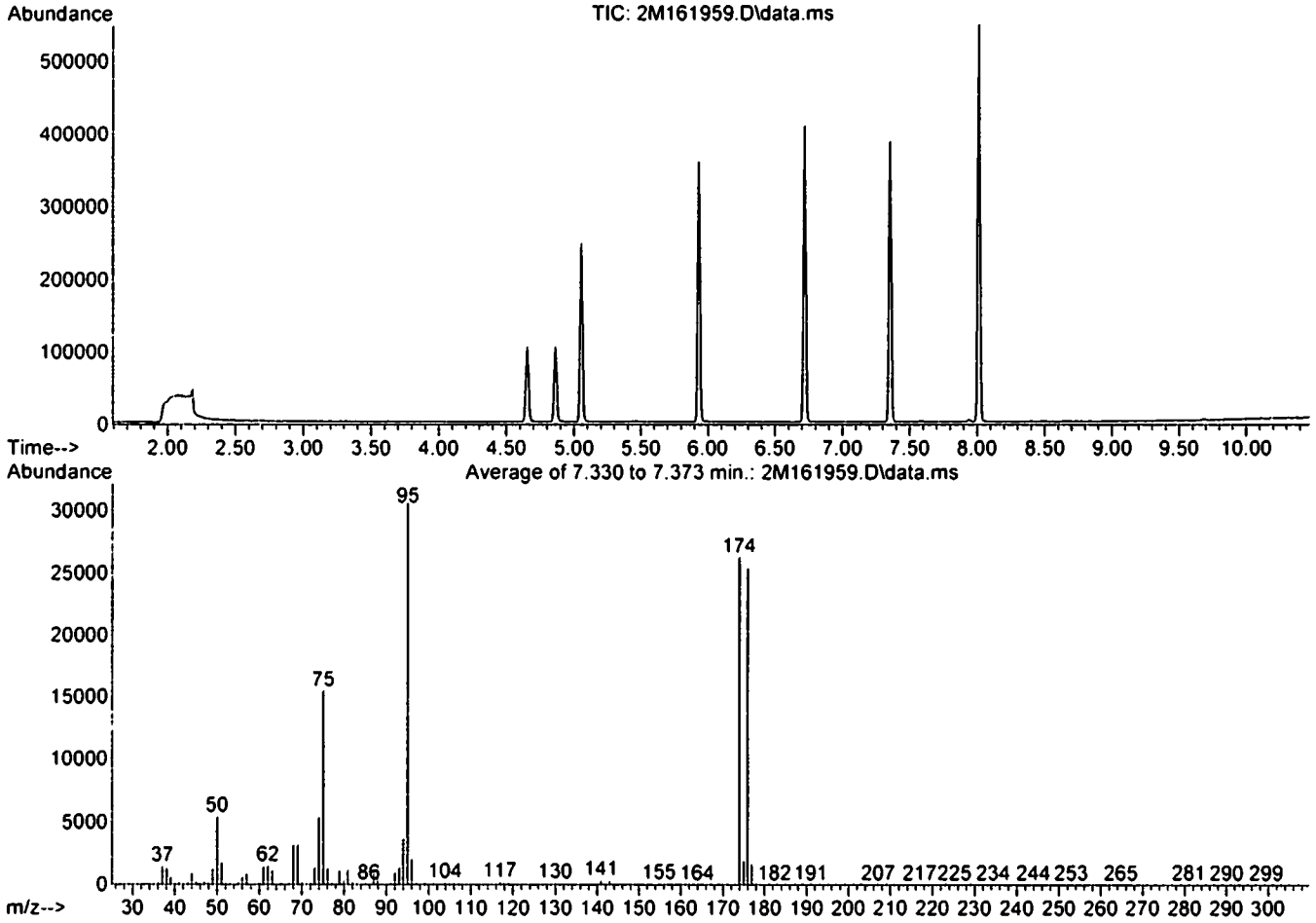
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.7	5437	PASS
75	95	30	60	50.6	15521	PASS
95	95	100	100	100.0	30645	PASS
96	95	5	9	6.7	2051	PASS
173	174	0.00	2	0.1	14	PASS
174	95	50	100	85.9	26334	PASS
175	174	5	9	7.3	1934	PASS
176	174	95	101	96.6	25440	PASS
177	176	5	9	6.4	1632	PASS

Data File	Sample Number	Analysis Date:
2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53
2M161962.D	CAL @ 1 PPB	01/03/22 22:13
2M161963.D	CAL @ 5 PPB	01/03/22 22:33
2M161964.D	CAL @ 10 PPB	01/03/22 22:53
2M161965.D	CAL @ 20 PPB	01/03/22 23:12
2M161967.D	CAL @ 50 PPB	01/03/22 23:52
2M161969.D	CAL @ 100 PPB	01/04/22 00:32
2M161971.D	CAL @ 250 PPB	01/04/22 01:12
2M161973.D	CAL @ 500 PPB	01/04/22 01:51
2M161975.D	BLK	01/04/22 02:31
2M161978.D	1 PPB	01/04/22 03:30
2M161979.D	ICV	01/04/22 03:50
2M161980.D	STD	01/04/22 04:10
2M161981.D	BLK	01/04/22 04:29
2M161982.D	BLK	01/04/22 04:49
2M161983.D	DAILY BLANK	01/04/22 05:09
2M161984.D	DAILY BLANK	01/04/22 05:29
2M161985.D	MDL @ 1 PPB	01/04/22 05:48
2M161986.D	MDL @ 1 PPB	01/04/22 06:08
2M161987.D	@ 1 PPB	01/04/22 06:28
2M161988.D	1 PPB	01/04/22 06:47
2M161989.D	MBS99204	01/04/22 07:07
2M161990.D	MBS99205	01/04/22 07:26
2M161991.D	MBS99206	01/04/22 07:46
2M161992.D	MBS99207	01/04/22 08:06
2M161993.D	MBS99208	01/04/22 08:25
2M161994.D	MBS99209	01/04/22 08:45
2M161995.D	MBS99210	01/04/22 09:05
2M161996.D	BLK	01/04/22 09:25

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-03-22\
Data File : 2M161959.D
Acq On : 03 Jan 2022 21:18
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A1222.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Dec 23 17:12:26 2021



Spectrum Information: Average of 7.330 to 7.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	5437	PASS
75	95	30	60	50.6	15521	PASS
95	95	100	100	100.0	30645	PASS
96	95	5	9	6.7	2051	PASS
173	174	0.00	2	0.1	14	PASS
174	95	50	100	85.9	26334	PASS
175	174	5	9	7.3	1934	PASS
176	174	95	101	96.6	25440	PASS
177	176	5	9	6.4	1632	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M157489.D
Analysis Date: 01/10/22 11:36
Method: EPA 8260D

Tune Scan/Time Range: Scan 1741

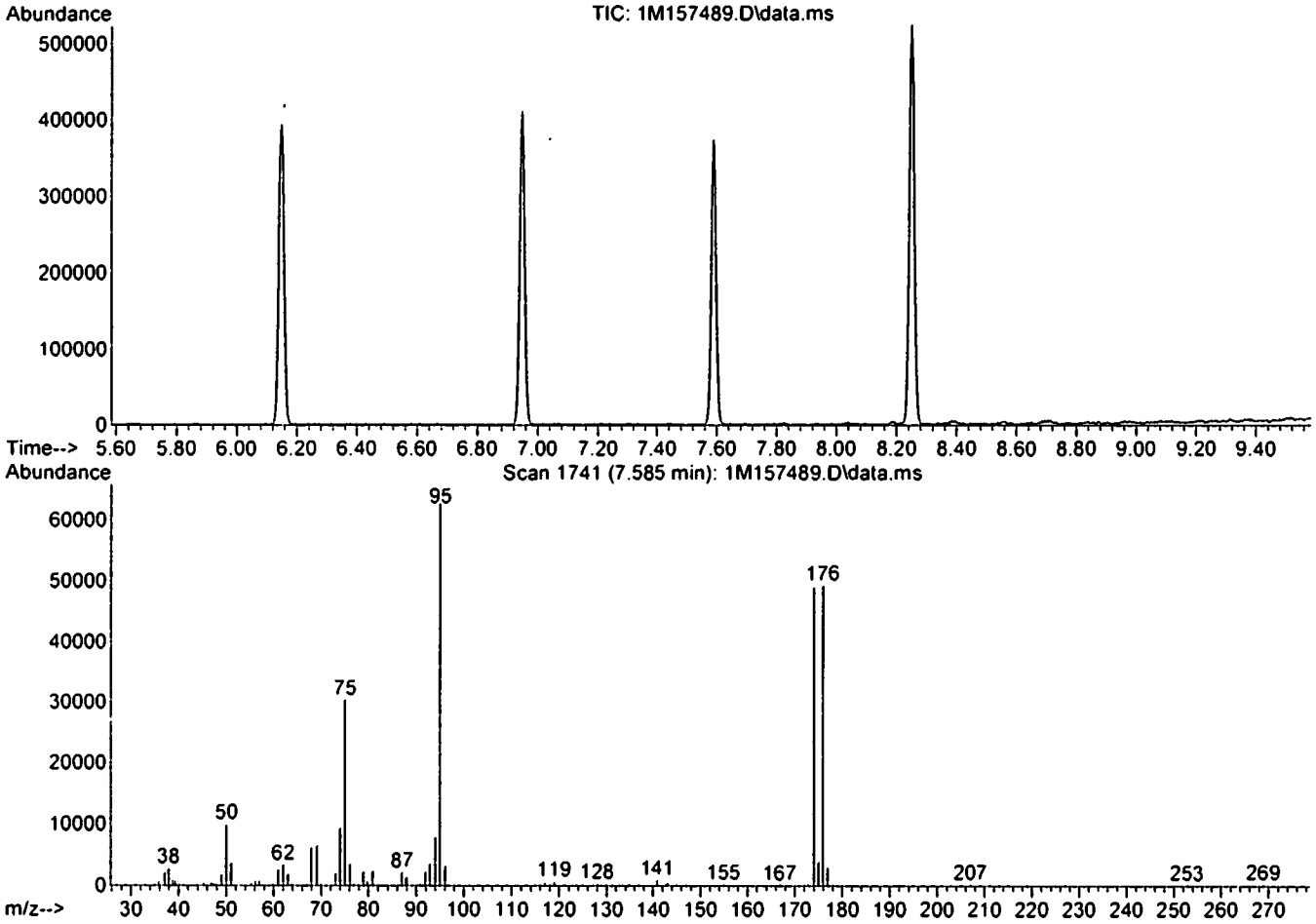
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.9	9980	PASS
75	95	30	60	48.6	30512	PASS
95	95	100	100	100.0	62784	PASS
96	95	5	9	5.1	3227	PASS
173	174	0.00	2	0.5	253	PASS
174	95	50	100	78.2	49128	PASS
175	174	5	9	8.0	3945	PASS
176	174	95	101	100.7	49456	PASS
177	176	5	9	6.2	3045	PASS

Data File	Sample Number	Analysis Date:
1M157490.D	BLK	01/10/22 11:51
1M157491.D	CAL @ 20 PPB	01/10/22 12:10
1M157493.D	STD	01/10/22 12:47
1M157495.D	HCL	01/10/22 13:24
1M157496.D	DAILY BLANK	01/10/22 13:43
1M157497.D	DAILY BLANK	01/10/22 14:01
1M157498.D	BLK	01/10/22 14:20
1M157499.D	AD28179-001(T)	01/10/22 14:39
1M157500.D	AD28179-002(T)	01/10/22 14:57
1M157501.D	AD28179-003(T)	01/10/22 15:16
1M157502.D	MBS99263	01/10/22 15:34
1M157503.D	MBS99264	01/10/22 15:53
1M157504.D	AD28179-001(T:M	01/10/22 16:12
1M157505.D	AD28179-001(T:M	01/10/22 16:30
1M157506.D	BLK	01/10/22 16:49
1M157507.D	BLK	01/10/22 17:07
1M157508.D	AD28173-001(T)	01/10/22 17:26
1M157509.D	AD28173-002(T)	01/10/22 17:45
1M157510.D	AD28173-003(T)	01/10/22 18:03
1M157511.D	AD28173-004(T)	01/10/22 18:22
1M157512.D	AD28197-001(T)	01/10/22 18:41
1M157513.D	AD28235-009	01/10/22 18:59
1M157514.D	MBS99267	01/10/22 19:18
1M157515.D	MBS99268	01/10/22 19:36
1M157516.D	MBS99269	01/10/22 19:54
1M157517.D	MBS99270	01/10/22 20:13
1M157518.D	BLK	01/10/22 20:31
1M157519.D	EF-3V-14202(0107	01/10/22 20:50
1M157520.D	EF-3V-14202(0106	01/10/22 21:09
1M157521.D	AD28235-004	01/10/22 21:27
1M157522.D	AD28235-005	01/10/22 21:46
1M157523.D	AD28235-006	01/10/22 22:05
1M157524.D	AD28235-007	01/10/22 22:23
1M157525.D	AD28235-008	01/10/22 22:42
1M157526.D	AD28235-001	01/10/22 23:01
1M157527.D	AD28235-002	01/10/22 23:19
1M157528.D	AD28235-003	01/10/22 23:38
1M157529.D	AD28235-003	01/10/22 23:56
1M157530.D	AD28229-001	01/11/22 00:14
1M157531.D	AD28229-001	01/11/22 00:33
1M157532.D	BLK	01/11/22 00:51

Data Path : G:\GcMsData\2022\GCMS_1\Data\01-10-22\
Data File : 1M157489.D
Acq On : 10 Jan 2022 11:36
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_A1229.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Dec 30 13:12:46 2021



Spectrum Information: Scan 1741

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	9980	PASS
75	95	30	60	48.6	30512	PASS
95	95	100	100	100.0	62784	PASS
96	95	5	9	5.1	3227	PASS
173	174	0.00	2	0.5	253	PASS
174	95	50	100	78.2	49128	PASS
175	174	5	9	8.0	3945	PASS
176	174	95	101	100.7	49456	PASS
177	176	5	9	6.2	3045	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M162297.D
Analysis Date: 01/11/22 08:19
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.354 to 7.354 min

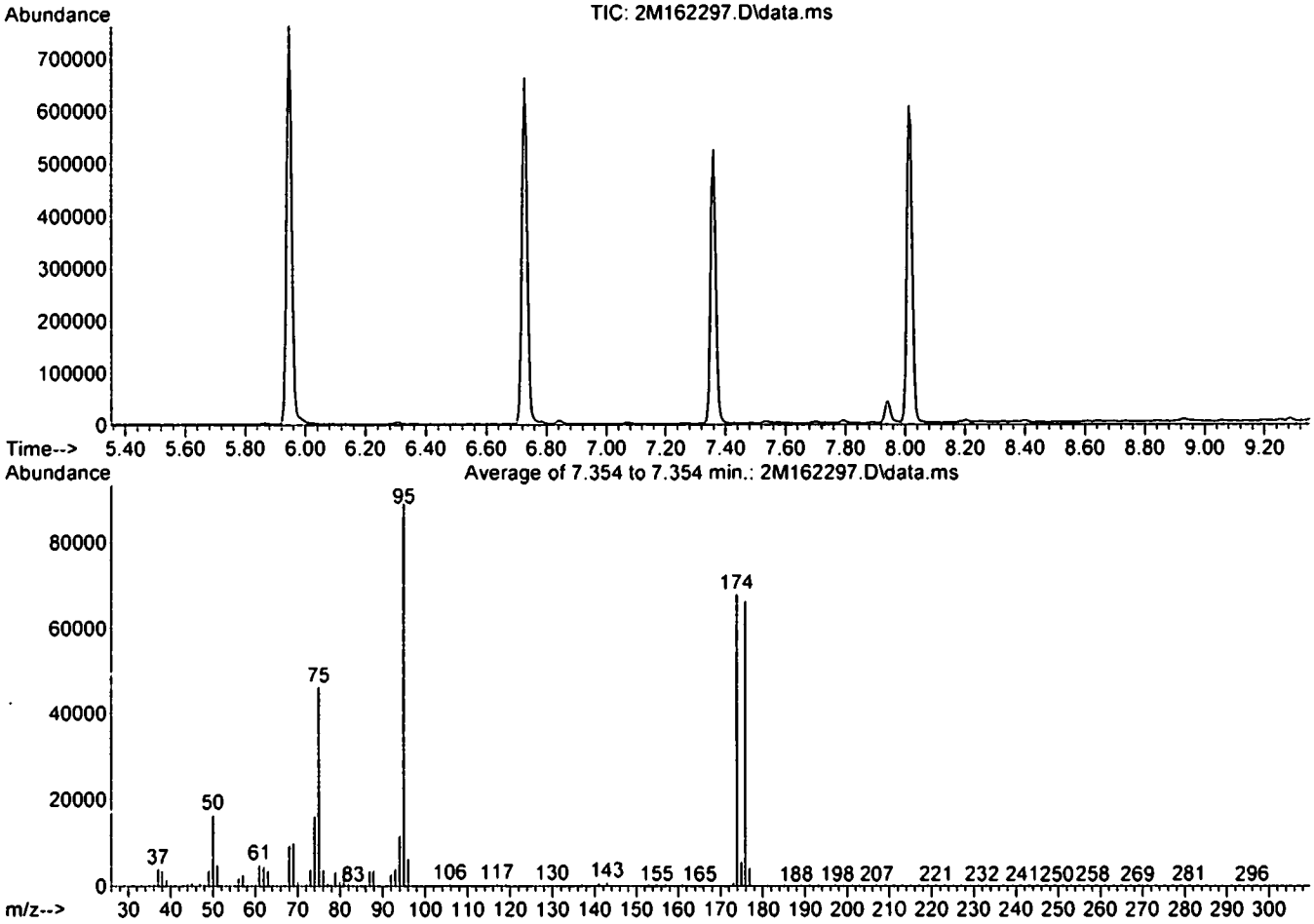
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.6	16584	PASS
75	95	30	60	51.9	46248	PASS
95	95	100	100	100.0	89128	PASS
96	95	5	9	7.1	6292	PASS
173	174	0.00	2	1.3	872	PASS
174	95	50	100	76.3	68040	PASS
175	174	5	9	8.3	5646	PASS
176	174	95	101	97.7	66472	PASS
177	176	5	9	6.4	4282	PASS

Data File	Sample Number	Analysis Date:
2M162298.D	CAL @ 20 PPB	01/11/22 08:39
2M162300.D	DI	01/11/22 09:18
2M162301.D	JUG 1	01/11/22 09:38
2M162302.D	DAILY BLANK	01/11/22 09:58
2M162303.D	DAILY BLANK	01/11/22 10:17
2M162304.D	AD28235-008	01/11/22 10:37
2M162305.D	AD28229-001	01/11/22 10:57
2M162306.D	AD28235-003	01/11/22 11:17
2M162307.D	AD28235-006	01/11/22 11:37
2M162308.D	AD28235-007	01/11/22 11:57
2M162309.D	28235-005(5X)	01/11/22 12:16
2M162310.D	AD28235-004(5X)	01/11/22 12:36
2M162311.D	BLK	01/11/22 12:56
2M162312.D	AD28231-002	01/11/22 13:16
2M162313.D	AD28226-020(MS)	01/11/22 13:35
2M162314.D	AD28226-020(MSD	01/11/22 13:55
2M162315.D	MBS99274	01/11/22 14:15
2M162316.D	MBS99275	01/11/22 14:35
2M162317.D	AD28235-008(MS)	01/11/22 14:54
2M162318.D	AD28235-008(MSD	01/11/22 15:14
2M162319.D	AD28226-020	01/11/22 15:34
2M162320.D	BLK	01/11/22 15:53
2M162321.D	AD28174-006	01/11/22 16:13
2M162322.D	AD28193-001	01/11/22 16:33
2M162323.D	AD28193-003	01/11/22 16:53
2M162324.D	AD28235-005(5X)	01/11/22 17:13
2M162325.D	BLK	01/11/22 17:32
2M162326.D	AD28239-010	01/11/22 17:52
2M162327.D	AD28239-011	01/11/22 18:12
2M162328.D	AD28239-012	01/11/22 18:32
2M162329.D	AD28239-014	01/11/22 18:52
2M162330.D	AD28239-013(10X)	01/11/22 19:12
2M162331.D	BLK	01/11/22 19:31
2M162332.D	BLK	01/11/22 19:51
2M162333.D	AD28126-002	01/11/22 20:11
2M162334.D	AD28177-025	01/11/22 20:31
2M162335.D	AD28196-002	01/11/22 20:50
2M162336.D	28253-001	01/11/22 21:10
2M162337.D	28253-002	01/11/22 21:30
2M162338.D	28253-003	01/11/22 21:50
2M162339.D	28253-004	01/11/22 22:10
2M162340.D	28253-005	01/11/22 22:30

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-11-22\
Data File : 2M162297.D
Acq On : 11 Jan 2022 08:19
Operator : JM
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_2\MethodQt\2M_A0103.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Jan 04 16:15:48 2022



Spectrum Information: Average of 7.354 to 7.354 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	16584	PASS
75	95	30	60	51.9	46248	PASS
95	95	100	100	100.0	89128	PASS
96	95	5	9	7.1	6292	PASS
173	174	0.00	2	1.3	872	PASS
174	95	50	100	76.3	68040	PASS
175	174	5	9	8.3	5646	PASS
176	174	95	101	97.7	66472	PASS
177	176	5	9	6.4	4282	PASS

2011002 0101

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	1M157111.D	CAL @ 20 PPB	12/29/21 16:18	2	1M157109.D	CAL @ 5 PPB	12/29/21 15:40
3	1M157110.D	CAL @ 10 PPB	12/29/21 15:59	4	1M157112.D	CAL @ 50 PPB	12/29/21 16:37
5	1M157113.D	CAL @ 100 PPB	12/29/21 16:56	6	1M157108.D	CAL @ 1 PPB	12/29/21 15:22
7	1M157107.D	CAL @ 0.5 PPB	12/29/21 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.3401	0.3078	0.3178	0.3157	0.3852	-----	-----	0.3007	-----	0.328	2.08	0.992	0.999	9.5	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Dichlorodifluorometha	1	0	Avg	0.2275	0.2084	0.2172	0.2132	0.2602	-----	-----	0.2078	-----	0.222	2.08	0.992	0.999	8.9	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Chloromethane	1	0	Avg	0.2211	0.2271	0.2169	0.2174	0.2483	-----	-----	0.1974	-----	0.221	2.24	0.996	1.00	7.5	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Bromomethane	1	0	Avg	0.1706	0.2365	0.1778	0.1674	0.2047	-----	-----	0.2673	-----	0.204	2.62	0.990	0.999	20	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Vinyl Chloride	1	0	Avg	0.2267	0.2087	0.2384	0.2293	0.2705	-----	-----	0.1943	-----	0.228	2.34	0.994	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Chloroethane	1	0	Avg	0.1477	0.1504	0.1496	0.1485	0.1696	-----	-----	0.2110	-----	0.163	2.69	0.996	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Trichlorofluoromethan	1	0	Avg	0.4035	0.3791	0.4031	0.3996	0.4667	-----	-----	0.3003	-----	0.392	2.90	0.995	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Ethyl ether	1	0	Avg	0.1516	0.1752	0.1786	0.1521	0.1753	-----	-----	0.1629	-----	0.166	3.12	0.995	0.999	7.3	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
Furan	1	0	Avg	0.3005	0.2919	0.3115	0.2827	0.3606	-----	-----	0.2611	-----	0.301	3.15	0.988	0.999	11	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1967	0.2123	0.2128	0.1957	0.2263	-----	-----	0.1271	-----	0.195	3.30	0.995	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Methylene Chloride	1	0	Avg	0.2205	0.2312	0.2265	0.2208	0.2579	-----	-----	0.3213	-----	0.246	3.68	0.995	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Acrolein	1	0	Avg	0.0181	0.0287	0.0298	0.0242	0.0299	-----	-----	0.0209	-----	0.0253	3.22	0.986	0.998	20		100.0	25.00	50.00	250.0	500.0			5.00	
Acrylonitrile	1	0	Avg	0.0725	0.0909	0.0768	0.0719	0.0849	-----	-----	0.0889	-----	0.0810	3.86	0.994	1.00	10		20.00	5.00	10.00	50.00	100.0			1.00	
Iodomethane	1	0	Qua	0.2611	0.1105	0.1925	0.3155	0.3843	-----	-----	0.0649	-----	0.221	3.44	0.993	1.00	55		20.00	5.00	10.00	50.00	100.0			1.00	
Acetone	1	0	Avg	0.0494	0.0566	0.0550	0.0482	0.0559	-----	-----	0.0509	-----	0.0527	3.33	0.995	0.999	6.9	0.10 a	100.0	25.00	50.00	250.0	500.0			5.00	
Carbon Disulfide	1	0	Avg	0.5212	0.4923	0.5407	0.5294	0.6801	-----	-----	0.6180	-----	0.564	3.51	0.988	0.999	13	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
t-Butyl Alcohol	1	0	Qua	0.0196	0.0118	0.0221	0.0173	0.0218	-----	-----	0.0173	-----	0.0184	3.73	0.989	0.997	21		100.0	25.00	50.00	250.0	500.0			5.00	
n-Hexane	1	0	Qua	0.1532	0.1471	0.1708	0.1658	0.1948	-----	-----	0.1371	-----	0.162	4.11	0.994	1.00	13		20.00	5.00	10.00	50.00	100.0			1.00	
Di-isopropyl-ether	1	0	Avg	0.4873	0.4814	0.5107	0.5151	0.5894	-----	-----	0.5601	-----	0.524	4.26	0.996	1.00	8.1		20.00	5.00	10.00	50.00	100.0			1.00	
1,1-Dichloroethene	1	0	Avg	0.2861	0.2745	0.2897	0.2854	0.3262	-----	-----	0.2088	-----	0.278	3.31	0.996	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Methyl Acetate	1	0	Avg	0.1434	0.1463	0.1413	0.1350	0.1504	-----	-----	0.1353	-----	0.142	3.58	0.997	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Methyl-t-butyl ether	1	0	Avg	0.5403	0.6061	0.5704	0.5454	0.6494	-----	-----	0.4968	0.4932	0.557	3.90	0.994	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0			1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3474	0.3420	0.3638	0.3534	0.4034	-----	-----	0.4787	-----	0.381	4.22	0.996	1.00	14	0.20	20.00	5.00	10.00	50.00	100.0			1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2290	0.2478	0.2433	0.2261	0.2685	-----	-----	0.2193	-----	0.239	3.91	0.994	1.00	7.5	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Ethyl-t-butyl ether	1	0	Avg	0.4941	0.5207	0.5406	0.5053	0.6135	-----	-----	0.7228	-----	0.566	4.51	0.992	1.00	15	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3119	0.3541	0.3334	0.3159	0.3752	-----	-----	0.4833	-----	0.362	4.62	0.993	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Bromochloromethane	1	0	Avg	0.1602	0.1745	0.1913	0.1448	0.2005	-----	-----	0.2473	-----	0.186	4.77	0.979	0.998	19		20.00	5.00	10.00	50.00	100.0			1.00	
2,2-Dichloropropane	1	0	Avg	0.2990	0.3448	0.3525	0.2929	0.3455	-----	-----	0.4184	-----	0.342	4.63	0.993	0.999	13		20.00	5.00	10.00	50.00	100.0			1.00	
Ethyl acetate	1	0	Avg	0.1103	0.1754	0.1622	0.1521	0.1705	-----	-----	0.2009	-----	0.162	4.64	0.993	0.998	19		20.00	5.00	10.00	50.00	100.0			1.00	
1,4-Dioxane	1	0	Avg	0.0027	0.0025	0.0027	0.0028	0.0036	-----	-----	0.0023	-----	0.00281	5.70	0.988	1.00	16		1000.	250.0	500.0	2500.	5000.			50.00	
1,1-Dichloropropene	1	0	Avg	0.2783	0.2553	0.2854	0.2870	0.3401	-----	-----	0.2800	-----	0.288	5.03	0.994	1.00	9.8		20.00	5.00	10.00	50.00	100.0			1.00	
Chloroform	1	0	Avg	0.3997	0.4055	0.4006	0.3958	0.4564	-----	-----	0.5409	-----	0.433	4.80	0.995	1.00	13	0.20	20.00	5.00	10.00	50.00	100.0			1.00	
Dibromofluoromethan	1	0	Avg	0.2904	0.3089	0.2986	0.3002	0.2887	-----	-----	0.3063	0.3084	0.300	4.90	-1	-1	2.8		30.00	30.00	30.00	30.00	30.00			30.00	30.00
Cyclohexane	1	0	Avg	0.2242	0.2048	0.2234	0.2332	0.2801	-----	-----	0.1884	-----	0.226	4.98	0.993	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1283	0.1329	0.1365	0.1381	0.1314	-----	-----	0.1348	0.1394	0.135	5.11	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00			30.00	30.00
1,2-Dichloroethane	1	0	Qua	0.2827	0.2808	0.3011	0.2790	0.3232	-----	-----	0.4219	0.5669	0.351	5.15	0.995	1.00	31	0.10	20.00	5.00	10.00	50.00	100.0			1.00	0.50
2-Butanone	1	0	Avg	0.0847	0.0943	0.1005	0.0741	0.0926	-----	-----	0.0853	-----	0.0886	4.63	0.989	0.998	10	0.10 a	20.00	5.00	10.00	50.00	100.0			1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3889	0.3786	0.3973	0.3972	0.4588	-----	-----	0.4830	-----	0.417	4.94	0.995	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Carbon Tetrachloride	1	0	Avg	0.3740	0.3437	0.3715	0.3782	0.4419	-----	-----	0.3620	-----	0.379	5.04	0.995	1.00	8.8	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Vinyl Acetate	1	0	Avg	0.5108	0.5162	0.5751	0.5480	0.6496	-----	-----	0.6817	-----	0.580	4.24	0.993	1.00	12		20.00	5.00	10.00	50.00	100.0			1.00	
Bromodichloromethan	1	0	Avg	0.2902	0.2909	0.2954	0.3018	0.3545	-----	-----	0.3501	-----	0.314	5.77	0.994	1.00	9.6	0.20	20.00	5.00	10.00	50.00	100.0			1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 13.3
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011002 0102

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	1M157111.D	CAL @ 20 PPB	12/29/21 16:18	2	1M157109.D	CAL @ 5 PPB	12/29/21 15:40
3	1M157110.D	CAL @ 10 PPB	12/29/21 15:59	4	1M157112.D	CAL @ 50 PPB	12/29/21 16:37
5	1M157113.D	CAL @ 100 PPB	12/29/21 16:56	6	1M157108.D	CAL @ 1 PPB	12/29/21 15:22
7	1M157107.D	CAL @ 0.5 PPB	12/29/21 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Qua	0.2307	0.2169	0.2386	0.2506	0.3117	-----	-----	0.1537	-----	0.234	5.63	0.991	1.00	22	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Dibromomethane	1	0	Avg	0.1776	0.1811	0.1859	0.1834	0.2164	-----	-----	0.2507	-----	0.199	5.70	0.994	1.00	14		20.00	5.00	10.00	50.00	100.0			1.00	
1,2-Dichloropropane	1	0	Avg	0.1961	0.1956	0.1943	0.1924	0.2252	-----	-----	0.2629	-----	0.211	5.63	0.995	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Trichloroethene	1	0	Avg	0.2671	0.2631	0.2583	0.2760	0.3265	-----	-----	0.3994	-----	0.298	5.50	0.994	1.00	19	0.20	20.00	5.00	10.00	50.00	100.0			1.00	
Benzene	1	0	Avg	0.8271	0.7864	0.8135	0.8380	0.9763	-----	-----	1.0261	1.2803	0.935	5.15	0.995	1.00	19	0.50	20.00	5.00	10.00	50.00	100.0			1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5015	0.5029	0.5008	0.5379	0.6453	-----	-----	0.6000	-----	0.548	5.20	0.993	1.00	11		20.00	5.00	10.00	50.00	100.0			1.00	
Iso-propylacetate	1	0	Avg	0.2938	0.3040	0.3201	0.3004	0.3697	-----	-----	0.3816	-----	0.328	5.15	0.991	1.00	12	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
Methyl methacrylate	1	0	Avg	0.1241	0.1215	0.1216	0.1294	0.1654	-----	-----	0.1130	-----	0.129	5.66	0.988	1.00	14	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
Dibromochloromethan	1	0	Avg	0.2748	0.2708	0.2901	0.2919	0.3527	-----	-----	0.3480	-----	0.305	6.64	0.992	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
2-Chloroethylvinylethe	1	0	Qua	0.0081	0.0016	0.0055	0.0074	0.0093	-----	-----	0.0141	-----	0.00770	5.92	0.990	0.997	54		20.00	5.00	10.00	50.00	100.0			1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.3496	0.3489	0.3352	0.3532	0.4312	-----	-----	0.4068	-----	0.371	6.01	0.992	1.00	10	0.20	20.00	5.00	10.00	50.00	100.0			1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3301	0.3066	0.3336	0.3384	0.4149	-----	-----	0.2954	-----	0.337	6.30	0.992	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Ethyl methacrylate	1	0	Avg	0.1434	0.1328	0.1498	0.1528	0.1873	-----	-----	0.1612	-----	0.155	6.32	0.992	1.00	12	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2133	0.2207	0.2151	0.2236	0.2630	-----	-----	0.1998	-----	0.223	6.41	0.994	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
1,2-Dibromoethane	1	0	Avg	0.2446	0.2300	0.2475	0.2423	0.2968	-----	-----	0.2871	-----	0.258	6.71	0.992	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
1,3-Dichloropropane	1	0	Avg	0.3604	0.3538	0.3626	0.3607	0.4310	-----	-----	0.4382	-----	0.385	6.50	0.993	1.00	10		20.00	5.00	10.00	50.00	100.0			1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.1488	0.1404	0.1606	0.1630	0.2000	-----	-----	0.1667	-----	0.163	6.08	0.991	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
2-Hexanone	1	0	Avg	0.1093	0.1108	0.1094	0.1141	0.1400	-----	-----	0.1376	-----	0.120	6.52	0.991	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Tetrachloroethene	1	0	Avg	0.2535	0.2260	0.2389	0.2511	0.3015	-----	-----	0.2271	-----	0.250	6.51	0.993	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0			1.00	
Toluene-d8	1	0	Avg	1.1169	1.1275	1.0833	1.1043	1.0945	-----	-----	1.0648	1.0834	1.10	6.17	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00			30.00	30.00
Toluene	1	0	Avg	0.6085	0.5393	0.5787	0.6238	0.7419	-----	-----	0.5729	-----	0.611	6.20	0.994	1.00	12	0.40	20.00	5.00	10.00	50.00	100.0			1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2735	0.2533	0.2644	0.2837	0.3373	-----	-----	0.2666	-----	0.280	7.01	0.994	1.00	11		20.00	5.00	10.00	50.00	100.0			1.00	
Chlorobenzene	1	0	Avg	0.7345	0.6800	0.7198	0.7472	0.8872	-----	-----	0.8036	-----	0.762	6.97	0.994	1.00	9.6	0.50	20.00	5.00	10.00	50.00	100.0			1.00	
n-Butyl acrylate	1	0	Avg	0.5109	0.4951	0.5175	0.5366	0.6693	-----	-----	0.5411	-----	0.545	7.22	0.990	1.00	12	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
n-Amyl acetate	1	0	Avg	0.4313	0.4178	0.4644	0.4537	0.5399	-----	-----	0.5793	-----	0.481	7.34	0.993	1.00	13	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
Bromoform	1	0	Avg	0.3343	0.3504	0.3495	0.3433	0.4154	-----	-----	0.5120	-----	0.384	7.43	0.992	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Ethylbenzene	1	0	Avg	0.4891	0.4309	0.4534	0.5111	0.6197	-----	-----	0.4805	-----	0.497	7.02	0.993	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.4581	0.5214	0.5079	0.4631	0.5428	-----	-----	0.6544	-----	0.525	7.65	0.994	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Bromofluorobenzene	1	0	Avg	0.7807	0.7846	0.7664	0.7679	0.7491	-----	-----	0.7616	0.7662	0.768	7.59	-1	-1	1.5		30.00	30.00	30.00	30.00	30.00			30.00	30.00
Styrene	1	0	Avg	1.2161	1.1081	1.1592	1.2905	1.5199	-----	-----	1.2428	-----	1.26	7.30	0.994	1.00	11	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
m&p-Xylenes	1	0	Avg	0.7223	0.6358	0.6821	0.7631	0.8962	-----	-----	0.6736	0.9496	0.760	7.08	0.995	1.00	16	0.10	40.00	10.00	20.00	100.0	200.0			2.00	1.00
o-Xylene	1	0	Avg	0.7358	0.6026	0.6905	0.7629	0.8922	-----	-----	0.7710	-----	0.743	7.30	0.995	1.00	13	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1676	0.1669	0.1708	0.1651	0.2034	-----	-----	0.1968	-----	0.178	7.67	0.991	0.999	9.5		20.00	5.00	10.00	50.00	100.0			1.00	
1,3-Dichlorobenzene	1	0	Avg	0.9539	0.8820	0.9730	0.9478	1.1135	-----	-----	1.1333	-----	1.00	8.22	0.995	1.00	10	0.60	20.00	5.00	10.00	50.00	100.0			1.00	
1,4-Dichlorobenzene	1	0	Avg	1.0193	0.9614	0.9820	0.9950	1.1407	-----	-----	1.2827	-----	1.06	8.27	0.996	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0			1.00	
1,2-Dichlorobenzene	1	0	Avg	0.9288	0.9007	0.9334	0.9499	1.0881	-----	-----	1.1049	-----	0.984	8.49	0.996	1.00	9.0	0.40	20.00	5.00	10.00	50.00	100.0			1.00	
Isopropylbenzene	1	0	Avg	1.7000	1.3618	1.6265	1.7747	2.1205	-----	-----	1.3154	-----	1.65	7.50	0.994	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Cyclohexanone	1	0	Avg	0.0151	0.0158	0.0181	0.0125	0.0132	-----	-----	0.0178	-----	0.0154	7.57	0.997	0.997	15		100.0	25.00	50.00	250.0	500.0			5.00	
Camphene	1	0	Avg	0.4112	0.3367	0.3980	0.3922	0.5097	-----	-----	0.3022	-----	0.392	7.67	0.987	0.999	18		20.00	5.00	10.00	50.00	100.0			1.00	
1,2,3-Trichloropropane	1	0	Avg	0.5866	0.6692	0.6231	0.5975	0.6906	-----	-----	0.7534	-----	0.653	7.69	0.995	1.00	9.7		20.00	5.00	10.00	50.00	100.0			1.00	
2-Chlorotoluene	1	0	Avg	1.0960	0.9580	1.0984	1.0764	1.2653	-----	-----	1.1760	-----	1.11	7.79	0.995	1.00	9.3		20.00	5.00	10.00	50.00	100.0			1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 13.3
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011002 0103

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M157111.D	CAL @ 20 PPB	12/29/21 16:18	2	1M157109.D	CAL @ 5 PPB	12/29/21 15:40
3	1M157110.D	CAL @ 10 PPB	12/29/21 15:59	4	1M157112.D	CAL @ 50 PPB	12/29/21 16:37
5	1M157113.D	CAL @ 100 PPB	12/29/21 16:56	6	1M157108.D	CAL @ 1 PPB	12/29/21 15:22
7	1M157107.D	CAL @ 0.5 PPB	12/29/21 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.7421	1.6797	1.7436	1.8228	2.1451	-----	-----	1.5721	-----	1.78	7.78	0.994	1.00	11		20.00	5.00	10.00	50.00	100.0			1.00	
4-Chlorotoluene	1	0	Avg	1.0323	1.0405	1.1159	1.0914	1.2519	-----	-----	1.0680	-----	1.10	7.85	0.996	1.00	7.3		20.00	5.00	10.00	50.00	100.0			1.00	
n-Propylbenzene	1	0	Avg	1.9167	1.6573	1.8413	1.9643	2.3503	-----	-----	1.6689	-----	1.90	7.73	0.994	1.00	13		20.00	5.00	10.00	50.00	100.0			1.00	
Bromobenzene	1	0	Avg	1.0072	0.9729	0.9225	0.9889	1.1824	-----	-----	1.0922	-----	1.03	7.70	0.993	1.00	9.1		20.00	5.00	10.00	50.00	100.0			1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.3908	1.0646	1.2760	1.3847	1.6581	-----	-----	1.1902	-----	1.33	7.81	0.994	1.00	15		20.00	5.00	10.00	50.00	100.0			1.00	
Butyl methacrylate	1	0	Avg	0.3784	0.3651	0.4033	0.3853	0.4344	-----	-----	0.3765	-----	0.391	7.82	0.997	1.00	6.4	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
t-Butylbenzene	1	0	Qua	1.3174	1.1164	1.2938	1.4002	1.6815	-----	-----	0.8643	-----	1.28	8.01	0.993	1.00	21		20.00	5.00	10.00	50.00	100.0			1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.4558	1.1950	1.3539	1.4762	1.7260	-----	-----	1.0999	-----	1.38	8.03	0.995	1.00	16		20.00	5.00	10.00	50.00	100.0			1.00	
sec-Butylbenzene	1	0	Avg	1.5133	1.3611	1.5137	1.6369	1.9440	-----	-----	1.0974	-----	1.51	8.13	0.994	1.00	19		20.00	5.00	10.00	50.00	100.0			1.00	
4-Isopropyltoluene	1	0	Qua	1.4069	1.0828	1.2810	1.4693	1.7811	-----	-----	0.9404	-----	1.33	8.21	0.993	1.00	22		20.00	5.00	10.00	50.00	100.0			1.00	
n-Butylbenzene	1	0	Avg	1.3490	1.2264	1.3563	1.4158	1.7100	-----	-----	1.0912	-----	1.36	8.44	0.993	1.00	15		20.00	5.00	10.00	50.00	100.0			1.00	
p-Diethylbenzene	1	0	Avg	0.7733	0.6770	0.7509	0.8177	1.0421	-----	-----	0.7319	-----	0.799	8.42	0.989	1.00	16		20.00	5.00	10.00	50.00	100.0			1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.0860	0.9896	1.1001	1.2361	1.6557	-----	-----	1.2271	-----	1.22	8.88	0.984	1.00	19		20.00	5.00	10.00	50.00	100.0			1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1393	0.1495	0.1234	0.1313	0.1666	-----	-----	0.1354	-----	0.141	8.94	0.989	0.999	11	0.05	20.00	5.00	10.00	50.00	100.0			1.00	
Camphor	1	0	Avg	0.0402	0.0396	0.0454	0.0438	0.0611	-----	-----	0.0443	0.0422	0.0452	9.38	0.980	0.999	16		200.0	50.00	100.0	500.0	1000.			10.00	5.00
Hexachlorobutadiene	1	0	Qua	0.2546	0.2167	0.2464	0.2541	0.3449	-----	-----	0.1861	-----	0.251	9.52	0.984	0.999	21		20.00	5.00	10.00	50.00	100.0			1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5617	0.5290	0.5652	0.5799	0.7444	-----	-----	0.5845	-----	0.594	9.43	0.988	1.00	13	0.20	20.00	5.00	10.00	50.00	100.0			1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.5243	0.4558	0.4906	0.5157	0.6488	-----	-----	0.5294	-----	0.527	9.73	0.990	0.999	12		20.00	5.00	10.00	50.00	100.0			1.00	
Naphthalene	1	0	Avg	1.4314	1.2662	1.3536	1.5176	1.9523	-----	-----	1.4078	-----	1.49	9.59	0.988	1.00	16		20.00	5.00	10.00	50.00	100.0			1.00	

Flags	*Note:* Avg Rsd: 13.3
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011002 0104

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M161965.D	CAL @ 20 PPB	01/03/22 23:12	2	2M161963.D	CAL @ 5 PPB	01/03/22 22:33
3	2M161964.D	CAL @ 10 PPB	01/03/22 22:53	4	2M161967.D	CAL @ 50 PPB	01/03/22 23:52
5	2M161969.D	CAL @ 100 PPB	01/04/22 00:32	6	2M161971.D	CAL @ 250 PPB	01/04/22 01:12
7	2M161973.D	CAL @ 500 PPB	01/04/22 01:51	8	2M161962.D	CAL @ 1 PPB	01/03/22 22:13
9	2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2207	0.2112	0.2473	0.2692	0.2613	0.2780	0.3001	0.2213	----	0.251	1.70	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.1260	0.1236	0.1390	0.1530	0.1456	0.1547	0.1656	0.1412	----	0.144	1.68	0.999	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1297	0.1380	0.1551	0.1607	0.1424	0.1499	0.1687	0.1853	----	0.154	1.86	0.997	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.0978	0.1211	0.1263	0.1158	0.1182	0.1630	0.1492	0.1570	----	0.131	2.25	0.996	0.996	17	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Chloride	1	0	Avg	0.1779	0.1826	0.2102	0.2211	0.2029	0.2165	0.2327	0.1996	----	0.205	1.95	0.999	1.00	9.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1315	0.1356	0.1568	0.1621	0.1480	0.1543	0.1721	0.1668	----	0.153	2.34	0.997	1.00	9.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.3563	0.3648	0.4238	0.4387	0.4078	0.4370	0.4750	0.3694	----	0.409	2.56	0.998	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1536	0.1494	0.1830	0.1958	0.1794	0.1836	0.2002	0.1744	----	0.177	2.80	0.998	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.2977	0.3123	0.3571	0.3740	0.3403	0.3565	0.3863	0.3458	----	0.346	2.84	0.998	1.00	8.6	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1480	0.1462	0.1762	0.1874	0.1765	0.1905	0.2074	0.1571	----	0.174	3.00	0.998	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.1802	0.1836	0.2172	0.2264	0.2083	0.2143	0.2338	0.2053	----	0.209	3.41	0.998	1.00	9.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0291	0.0285	0.0347	0.0360	0.0345	0.0363	0.0408	0.0380	----	0.0348	2.92	0.997	1.00	12		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0834	0.0813	0.0977	0.1020	0.0981	0.0998	0.1109	0.0985	----	0.0965	3.62	0.998	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.1600	0.1221	0.1558	0.2370	0.2252	0.2540	0.2618	0.1244	----	0.193	3.15	0.994	0.997	30		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0648	0.0609	0.0744	0.0759	0.0759	0.0735	0.0781	0.0787	----	0.0728	3.04	0.999	1.00	8.8	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4323	0.4418	0.5101	0.5428	0.5000	0.5313	0.5762	0.5140	----	0.506	3.21	0.998	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0261	0.0252	0.0312	0.0314	0.0303	0.0308	0.0342	0.0311	----	0.0301	3.48	0.998	1.00	9.8		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1431	0.1507	0.1762	0.1808	0.1709	0.1804	0.1910	0.1981	----	0.174	3.87	0.999	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.5233	0.5286	0.6093	0.6597	0.6007	0.6245	0.6816	0.5421	----	0.596	4.03	0.998	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.2509	0.2582	0.2995	0.3100	0.2825	0.2985	0.3274	0.2760	----	0.288	3.01	0.998	1.00	9.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.1665	0.1614	0.2009	0.2040	0.1931	0.1967	0.2150	0.1920	----	0.191	3.32	0.998	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.5592	0.5581	0.6539	0.7086	0.6597	0.6768	0.7378	0.5541	0.6111	0.636	3.64	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3098	0.3167	0.3650	0.3918	0.3576	0.3731	0.4054	0.3287	----	0.356	4.00	0.998	1.00	9.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.1875	0.1968	0.2185	0.2352	0.2152	0.2295	0.2575	0.2028	----	0.218	3.65	0.997	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5756	0.5756	0.6720	0.7226	0.6651	0.6801	0.7343	0.5785	----	0.651	4.29	0.999	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3132	0.3214	0.3668	0.3915	0.3572	0.3727	0.4130	0.3377	----	0.359	4.41	0.998	1.00	9.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1450	0.1457	0.1629	0.1725	0.1550	0.1537	0.1615	0.1458	----	0.155	4.57	0.999	1.00	6.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.2896	0.2975	0.3402	0.3576	0.3242	0.3405	0.3702	0.2977	----	0.327	4.42	0.998	1.00	9.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2212	0.1985	0.2641	0.2602	0.2471	0.2442	0.2746	0.2625	----	0.247	4.43	0.997	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0034	0.0031	0.0038	0.0039	0.0037	0.0038	0.0043	0.0034	----	0.00372	5.49	0.997	1.00	10		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.2531	0.2587	0.3051	0.3205	0.2906	0.3091	0.3382	0.2758	----	0.294	4.82	0.998	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.3429	0.3474	0.4082	0.4314	0.3936	0.4072	0.4438	0.3866	----	0.395	4.60	0.998	1.00	9.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2828	0.2845	0.2824	0.2891	0.2957	0.2970	0.2936	0.2808	0.2842	0.288	4.70	-1	-1	2.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2113	0.2241	0.2575	0.2646	0.2485	0.2660	0.2840	0.2475	----	0.250	4.77	0.999	1.00	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1488	0.1473	0.1457	0.1437	0.1490	0.1495	0.1463	0.1425	0.1464	0.147	4.91	-1	-1	1.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2704	0.2749	0.3195	0.3359	0.3091	0.3202	0.3677	0.2973	0.3688	0.318	4.95	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0:50
2-Butanone	1	0	Avg	0.0841	0.1035	0.1001	0.1117	0.1074	0.1133	0.1208	0.1082	----	0.106	4.41	0.999	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3219	0.3307	0.3833	0.4025	0.3685	0.3876	0.4247	0.3241	----	0.368	4.73	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.2509	0.2324	0.2843	0.3214	0.3008	0.3338	0.3774	0.2189	----	0.290	4.83	0.996	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.5887	0.5825	0.7050	0.7431	0.6670	0.7146	0.7909	0.6048	----	0.675	4.02	0.998	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.2597	0.2580	0.3072	0.3339	0.3101	0.3232	0.3526	0.2576	----	0.300	5.57	0.998	1.00	12	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011002 0105

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
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7	2M161973.D	CAL @ 500 PPB	01/04/22 01:51	8	2M161962.D	CAL @ 1 PPB	01/03/22 22:13
9	2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2102	0.2172	0.2590	0.2678	0.2560	0.2742	0.2976	0.2345	----	0.252	5.42	0.998	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1486	0.1455	0.1767	0.1850	0.1752	0.1854	0.2105	0.1542	----	0.173	5.50	0.997	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.1762	0.1809	0.2116	0.2245	0.2045	0.2108	0.2340	0.1789	----	0.203	5.43	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2155	0.2266	0.2574	0.2739	0.2498	0.2622	0.2947	0.2252	----	0.251	5.30	0.997	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.7155	0.7169	0.8507	0.8974	0.8157	0.8516	0.9429	0.7426	0.8584	0.821	4.95	0.998	1.00	9.8	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5661	0.5685	0.6634	0.7163	0.6595	0.6608	0.7122	0.5876	----	0.642	4.99	0.999	1.00	9.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.4850	0.4667	0.5710	0.6032	0.5567	0.5639	0.6188	0.4798	----	0.543	4.95	0.998	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.2138	0.2096	0.2784	0.2896	0.2425	0.2619	0.2620	0.2465	----	0.251	5.45	1.00	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.2632	0.2409	0.3018	0.3384	0.3148	0.3255	0.3485	0.2340	----	0.296	6.42	0.999	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.0047	0.0057	0.0061	0.0070	0.0068	0.0066	0.0065	0.0056	----	0.00618	5.71	1.00	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.3926	0.3886	0.4585	0.4963	0.4453	0.4524	0.4823	0.3844	----	0.438	5.81	0.999	1.00	10	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3629	0.3414	0.4270	0.4566	0.4177	0.4256	0.4525	0.3646	----	0.406	6.09	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2360	0.2189	0.2727	0.2869	0.2648	0.2670	0.2886	0.2237	----	0.257	6.11	0.999	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2286	0.2330	0.2720	0.2836	0.2574	0.2600	0.2815	0.2372	----	0.257	6.20	0.999	1.00	8.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2590	0.2530	0.3095	0.3168	0.2907	0.2937	0.3120	0.2772	----	0.289	6.49	0.999	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.3824	0.3820	0.4589	0.4725	0.4295	0.4366	0.4724	0.4202	----	0.432	6.29	0.999	1.00	8.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2713	0.2616	0.3163	0.3247	0.3010	0.3038	0.3291	0.2755	----	0.298	5.87	0.999	1.00	8.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1995	0.1892	0.2299	0.2367	0.2211	0.2213	0.2411	0.2183	----	0.220	6.31	0.998	1.00	8.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2106	0.2029	0.2414	0.2613	0.2340	0.2545	0.2902	0.2138	----	0.239	6.29	0.996	1.00	12	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2795	1.2773	1.2658	1.2585	1.2458	1.2380	1.2092	1.2929	1.2654	1.26	5.95	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6038	0.6231	0.7173	0.7377	0.6580	0.6808	0.7350	0.6710	----	0.678	5.99	0.999	1.00	7.3	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2396	0.2292	0.2896	0.3050	0.2810	0.3005	0.3399	0.2353	----	0.278	6.78	0.997	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.6721	0.6783	0.8026	0.8348	0.7479	0.7714	0.8243	0.7044	----	0.755	6.75	0.999	1.00	8.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.0119	0.9833	1.2130	1.3177	1.1897	1.2141	1.2699	1.1162	----	1.16	6.99	0.999	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.9075	0.8752	1.1033	1.1815	1.0709	1.1001	1.1673	0.9607	----	1.05	7.11	0.999	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.4040	0.3807	0.4728	0.5546	0.5145	0.5376	0.5775	0.3821	----	0.478	7.20	0.999	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6167	0.6215	0.7920	0.8040	0.7101	0.7593	0.8375	0.7273	----	0.734	6.79	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7043	0.6771	0.8568	0.8802	0.7629	0.7830	0.8237	0.7285	----	0.777	7.42	0.999	1.00	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8689	0.8775	0.8731	0.8890	0.8732	0.8515	0.8209	0.8967	0.8811	0.870	7.37	-1	-1	2.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.5222	1.5472	1.8313	1.9542	1.7132	1.8071	1.8658	1.5740	----	1.73	7.07	1.00	1.00	9.4	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.8879	0.9251	1.0806	1.1282	0.9824	1.0216	1.0568	0.9964	1.1012	1.02	6.85	1.00	1.00	7.9	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8830	0.8955	1.0656	1.1252	0.9909	1.0556	1.1213	0.9841	----	1.02	7.07	0.999	1.00	9.2	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2606	0.2457	0.3029	0.3335	0.3117	0.3273	0.3573	0.2787	----	0.302	7.45	0.998	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	0.9105	0.9486	1.1196	1.1744	1.0339	1.1005	1.1631	1.0389	----	1.06	7.99	0.999	1.00	9.1	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	0.9541	0.9871	1.1801	1.1965	1.0635	1.1227	1.1899	1.0845	----	1.10	8.04	0.999	1.00	8.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	0.8813	0.9161	1.0767	1.1211	0.9996	1.0465	1.1141	1.0144	----	1.02	8.26	0.999	1.00	8.6	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.0651	2.1412	2.5179	2.6058	2.2558	2.3145	2.3341	2.2803	----	2.31	7.26	1.00	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0317	0.0340	0.0372	0.0327	0.0363	0.0348	0.0309	0.0343	----	0.0340	7.34	0.996	1.00	6.4		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5114	0.5097	0.6585	0.6377	0.5852	0.6208	0.6493	0.6570	----	0.604	7.43	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.8766	0.8691	1.0553	1.1238	1.0285	1.0609	1.1414	0.9367	----	1.01	7.46	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.2098	1.2450	1.4457	1.5440	1.3225	1.3926	1.4305	1.2856	----	1.36	7.56	1.00	1.00	8.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.9
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011002 0105

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M161965.D	CAL @ 20 PPB	01/03/22 23:12	2	2M161963.D	CAL @ 5 PPB	01/03/22 22:33
3	2M161964.D	CAL @ 10 PPB	01/03/22 22:53	4	2M161967.D	CAL @ 50 PPB	01/03/22 23:52
5	2M161969.D	CAL @ 100 PPB	01/04/22 00:32	6	2M161971.D	CAL @ 250 PPB	01/04/22 01:12
7	2M161973.D	CAL @ 500 PPB	01/04/22 01:51	8	2M161962.D	CAL @ 1 PPB	01/03/22 22:13
9	2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.2009	2.2818	2.6693	2.8124	2.4084	2.5147	2.4824	2.4069	-----	2.47	7.55	1.00	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.1919	1.2609	1.4822	1.5203	1.3899	1.4321	1.4834	1.2879	-----	1.38	7.62	1.00	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.2503	2.3406	2.7749	2.8401	2.4512	2.4917	2.4865	2.4805	-----	2.51	7.49	1.00	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.2896	1.3123	1.6134	1.6669	1.4641	1.5079	1.5903	1.4033	-----	1.48	7.46	0.999	1.00	9.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.4534	1.5287	1.7968	1.7930	1.6036	1.6987	1.8627	1.6580	-----	1.67	7.58	0.998	1.00	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.6502	0.6743	0.7976	0.8490	0.7544	0.8031	0.8462	0.6003	-----	0.747	7.59	0.999	1.00	13	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.4706	1.4974	1.8085	1.8620	1.6349	1.7271	1.8210	1.6569	-----	1.68	7.78	0.999	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.5880	1.6417	1.9315	1.9830	1.7457	1.8218	1.8910	1.8729	-----	1.81	7.80	0.999	1.00	7.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.7546	1.8154	2.1623	2.1992	1.9261	2.0136	2.0894	1.9271	-----	1.99	7.90	0.999	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.5323	1.6108	1.8648	1.8874	1.6792	1.7764	1.8477	2.0020	-----	1.78	7.97	0.999	1.00	8.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5261	1.5438	1.8816	1.9032	1.6874	1.7951	1.8845	1.7346	-----	1.74	8.21	0.999	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8850	0.9119	1.0975	1.1303	1.0054	1.0880	1.1653	1.0311	-----	1.04	8.19	0.999	1.00	9.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.2887	1.3189	1.5868	1.6509	1.4892	1.5966	1.6864	1.5504	-----	1.52	8.65	0.999	1.00	9.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1678	0.1538	0.1977	0.2203	0.2055	0.2202	0.2407	0.1705	-----	0.197	8.71	0.998	1.00	15	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0912	0.0808	0.1066	0.1111	0.1075	0.1182	0.1452	0.0924	0.1022	0.106	9.15	0.991	1.00	18		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.1877	0.1946	0.2366	0.2382	0.2308	0.2488	0.2727	0.2628	-----	0.234	9.28	0.998	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.4461	0.4497	0.5480	0.5595	0.5300	0.5685	0.6019	0.5228	-----	0.528	9.20	0.999	1.00	10	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.3951	0.3847	0.4901	0.4859	0.4602	0.4853	0.5158	0.4446	-----	0.458	9.50	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.5270	1.4431	1.8493	1.8885	1.7765	1.8368	1.9101	1.7510	-----	1.75	9.36	1.00	1.00	9.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M157491.D **Instrument:** GCMS 1

Cont Calibration Date/Time 1/10/2022 12:10:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.30	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		2.09	16.62	20	20	0.1	0.328	0.272	16.92	
Dichlorodifluoromethane	1	0		2.09	19.54	20	20	0.1	0.222	0.217	2.29	
Chloromethane	1	0		2.25	21.17	20	20	0.1	0.221	0.234	5.85	
Bromomethane	1	0		2.62	21.70	20	20	0.1	0.204	0.221	8.49	
Vinyl Chloride	1	0		2.33	19.27	20	20	0.1	0.228	0.220	3.64	
Chloroethane	1	0		2.70	17.70	20	20	0.1	0.163	0.144	11.48	
Trichlorofluoromethane	1	0		2.91	19.50	20	20	0.1	0.392	0.382	2.49	
Ethyl ether	1	0		3.12	16.70	20	20	0.5	0.166	0.139	16.50	
Furan	1	0		3.16	18.57	20	20	0.5	0.301	0.280	7.13	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.30	20.26	20	20	0.1	0.195	0.198	1.30	
Methylene Chloride	1	0		3.68	18.45	20	20	0.1	0.246	0.227	7.74	
Acrolein	1	0		3.21	90.48	100	20		0.025	0.023	9.52	
Acrylonitrile	1	0		3.86	18.30	20	20		0.081	0.074	8.51	
Iodomethane	1	0		3.45	5.68	20	20		0.221	0.068	71.59	C1
Acetone	1	0		3.33	91.09	100	20	0.1	0.053	0.048	8.91	
Carbon Disulfide	1	0		3.51	19.20	20	20	0.1	0.564	0.541	3.98	
t-Butyl Alcohol	1	0		3.73	120.44	100	20		0.018	0.020	20.44	
n-Hexane	1	0		4.12	23.85	20	20		0.162	0.193	19.26	
Di-isopropyl-ether	1	0		4.26	19.82	20	20		0.524	0.519	0.90	
1,1-Dichloroethene	1	0		3.32	21.68	20	20	0.1	0.278	0.302	8.39	
Methyl Acetate	1	0		3.59	16.43	20	20	0.1	0.142	0.117	17.87	
Methyl-t-butyl ether	1	0		3.90	19.83	20	20	0.1	0.557	0.553	0.87	
1,1-Dichloroethane	1	0		4.23	18.35	20	20	0.2	0.381	0.350	8.24	
trans-1,2-Dichloroethene	1	0		3.90	19.89	20	20	0.1	0.239	0.238	0.54	
Ethyl-t-butyl ether	1	0		4.51	19.68	20	20	0.5	0.566	0.557	1.58	
cis-1,2-Dichloroethene	1	0		4.62	18.87	20	20	0.1	0.362	0.342	5.64	
Bromochloromethane	1	0		4.77	17.63	20	20		0.186	0.164	11.86	
2,2-Dichloropropane	1	0		4.62	22.48	20	20		0.342	0.385	12.41	
Ethyl acetate	1	0		4.64	19.40	20	20		0.162	0.157	3.01	
1,4-Dioxane	1	0		5.70	948.12	1000	20		0.003	0.003	5.19	
1,1-Dichloropropene	1	0		5.03	21.63	20	20		0.288	0.311	8.16	
Chloroform	1	0		4.81	18.97	20	20	0.2	0.433	0.411	5.15	
Dibromofluoromethane	1	0	S	4.90	27.26	30	**		0.300	0.273	9.15	
Cyclohexane	1	0		4.98	22.30	20	20	0.1	0.226	0.252	11.51	
1,2-Dichloroethane-d4	1	0	S	5.11	29.00	30	**		0.135	0.130	3.32	
1,2-Dichloroethane	1	0		5.15	22.10	20	20	0.1	0.351	0.295	10.50	
2-Butanone	1	0		4.63	19.82	20	20	0.1	0.089	0.088	0.90	
1,1,1-Trichloroethane	1	0		4.94	19.15	20	20	0.1	0.417	0.400	4.24	
Carbon Tetrachloride	1	0		5.04	20.85	20	20	0.1	0.379	0.395	4.23	
Vinyl Acetate	1	0		4.25	20.34	20	20		0.580	0.590	1.69	
Bromodichloromethane	1	0		5.77	20.96	20	20	0.2	0.314	0.329	4.81	
Methylcyclohexane	1	0		5.63	24.34	20	20	0.1	0.234	0.276	21.68	C1
Dibromomethane	1	0		5.69	18.34	20	20		0.199	0.183	8.29	
1,2-Dichloropropane	1	0		5.63	18.86	20	20	0.1	0.211	0.199	5.70	
Trichloroethene	1	0		5.50	18.59	20	20	0.2	0.298	0.277	7.06	
Benzene	1	0		5.15	18.39	20	20	0.5	0.935	0.860	8.05	
tert-Amyl methyl ether	1	0		5.20	19.57	20	20		0.548	0.536	2.16	
Chlorobenzene-d5	1	0	I	6.96	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.15	20.71	20	20	0.5	0.328	0.340	3.54	
Methyl methacrylate	1	0		5.66	20.48	20	20	0.5	0.129	0.132	2.39	
Dibromochloromethane	1	0		6.64	18.15	20	20	0.1	0.305	0.277	9.26	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M157491.D **Instrument:** GCMS 1

Cont Calibration Date/Time 1/10/2022 12:10:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.91	79.53	20	20		0.008	0.034	297.67	C1
cis-1,3-Dichloropropene	1	0		6.01	18.60	20	20	0.2	0.371	0.345	6.98	
trans-1,3-Dichloropropene	1	0		6.30	20.67	20	20	0.1	0.337	0.348	3.36	
Ethyl methacrylate	1	0		6.32	21.68	20	20	0.5	0.155	0.168	8.41	
1,1,2-Trichloroethane	1	0		6.41	19.68	20	20	0.1	0.223	0.219	1.60	
1,2-Dibromoethane	1	0		6.71	18.08	20	20	0.1	0.258	0.233	9.61	
1,3-Dichloropropane	1	0		6.50	18.24	20	20		0.385	0.351	8.82	
4-Methyl-2-Pentanone	1	0		6.08	19.10	20	20	0.1	0.163	0.156	4.49	
2-Hexanone	1	0		6.52	18.80	20	20	0.1	0.120	0.113	5.99	
Tetrachloroethene	1	0		6.51	19.77	20	20	0.2	0.250	0.247	1.13	
Toluene-d8	1	0	S	6.17	30.75	30	**		1.096	1.124	2.50	
Toluene	1	0		6.20	20.05	20	20	0.4	0.611	0.612	0.25	
1,1,1,2-Tetrachloroethane	1	0		7.01	19.12	20	20		0.280	0.267	4.42	
Chlorobenzene	1	0		6.97	18.90	20	20	0.5	0.762	0.720	5.48	
1,4-Dichlorobenzene-d4	1	0	I	8.25	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.22	21.63	20	20	0.5	0.545	0.589	8.13	
n-Amyl acetate	1	0		7.34	22.15	20	20	0.5	0.481	0.533	10.74	
Bromoform	1	0		7.43	18.74	20	20	0.1	0.384	0.360	6.31	
Ethylbenzene	1	0		7.02	21.92	20	20	0.1	0.497	0.545	9.58	
1,1,2,2-Tetrachloroethane	1	0		7.65	19.16	20	20	0.1	0.525	0.503	4.20	
Bromofluorobenzene	1	0	S	7.59	31.22	30	**		0.768	0.799	4.05	
Styrene	1	0		7.31	20.63	20	20	0.3	1.256	1.295	3.13	
m&p-Xylenes	1	0		7.08	41.62	40	20	0.1	0.760	0.791	4.05	
o-Xylene	1	0		7.30	20.27	20	20	0.3	0.743	0.752	1.33	
trans-1,4-Dichloro-2-butene	1	0		7.67	20.64	20	20		0.178	0.184	3.21	
1,3-Dichlorobenzene	1	0		8.22	19.80	20	20	0.6	1.001	0.991	0.98	
1,4-Dichlorobenzene	1	0		8.27	20.13	20	20	0.5	1.064	1.070	0.65	
1,2-Dichlorobenzene	1	0		8.49	19.46	20	20	0.4	0.984	0.958	2.68	
Isopropylbenzene	1	0		7.50	22.97	20	20	0.1	1.650	1.895	14.85	
Cyclohexanone	1	0		7.57	257.86	100	20		0.015	0.040	157.86	C1
Camphene	1	0		7.67	23.78	20	20		0.392	0.466	18.92	
1,2,3-Trichloropropane	1	0		7.68	19.76	20	20		0.653	0.646	1.19	
2-Chlorotoluene	1	0		7.79	21.02	20	20		1.112	1.168	5.09	
p-Ethyltoluene	1	0		7.78	21.91	20	20		1.784	1.954	9.53	
4-Chlorotoluene	1	0		7.85	21.43	20	20		1.100	1.178	7.13	
n-Propylbenzene	1	0		7.73	22.67	20	20		1.900	2.154	13.36	
Bromobenzene	1	0		7.69	21.82	20	20		1.028	1.121	9.10	
1,3,5-Trimethylbenzene	1	0		7.81	22.94	20	20		1.327	1.523	14.71	
Butyl methacrylate	1	0		7.82	24.18	20	20	0.5	0.391	0.472	20.90	C1
t-Butylbenzene	1	0		8.01	23.29	20	20		1.279	1.490	16.44	
1,2,4-Trimethylbenzene	1	0		8.04	22.83	20	20		1.384	1.580	14.15	
sec-Butylbenzene	1	0		8.13	23.83	20	20		1.511	1.800	19.13	
4-Isopropyltoluene	1	0		8.21	23.73	20	20		1.327	1.589	18.63	
n-Butylbenzene	1	0		8.44	24.42	20	20		1.358	1.658	22.09	C1
p-Diethylbenzene	1	0		8.42	23.65	20	20		0.799	0.945	18.26	
1,2,4,5-Tetramethylbenzene	1	0		8.88	21.06	20	20		1.216	1.280	5.30	
1,2-Dibromo-3-Chloropropane	1	0		8.94	18.44	20	20	0.05	0.141	0.130	7.82	
Camphor	1	0		9.38	207.75	200	20		0.045	0.047	3.87	
Hexachlorobutadiene	1	0		9.52	26.76	20	20		0.251	0.308	33.81	C1
1,2,4-Trichlorobenzene	1	0		9.43	21.16	20	20	0.2	0.594	0.629	5.79	
1,2,3-Trichlorobenzene	1	0		9.74	21.50	20	20		0.527	0.567	7.52	
Naphthalene	1	0		9.59	20.79	20	20		1.488	1.547	3.95	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M162298.D **Instrument:** GCMS 2

Cont Calibration Date/Time 1/11/2022 8:39:00 A **Method:** EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	13.19	20	20	0.1	0.251	0.166	34.03	C1
Dichlorodifluoromethane	1	0		1.66	3.74	20	20	0.1	0.144	0.027	81.30	C1
Chloromethane	1	0		1.83	8.73	20	20	0.1	0.154	0.067	56.34	C1
Bromomethane	1	0		2.23	13.67	20	20	0.1	0.131	0.090	31.67	C1
Vinyl Chloride	1	0		1.93	9.97	20	20	0.1	0.205	0.102	50.17	C1
Chloroethane	1	0		2.32	13.05	20	20	0.1	0.153	0.100	34.75	C1
Trichlorofluoromethane	1	0		2.54	14.76	20	20	0.1	0.409	0.302	26.20	C1
Ethyl ether	1	0		2.78	16.59	20	20	0.5	0.177	0.147	17.05	
Furan	1	0		2.81	16.44	20	20	0.5	0.346	0.285	17.80	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.97	16.54	20	20	0.1	0.174	0.144	17.30	
Methylene Chloride	1	0		3.39	17.96	20	20	0.1	0.209	0.187	10.18	
Acrolein	1	0		2.89	80.11	100	20		0.035	0.028	19.89	
Acrylonitrile	1	0		3.60	17.59	20	20		0.097	0.085	12.06	
Iodomethane	1	0		3.12	12.46	20	20		0.193	0.136	37.72	C1
Acetone	1	0		3.02	94.24	100	20	0.1	0.073	0.069	5.76	
Carbon Disulfide	1	0		3.19	14.11	20	20	0.1	0.506	0.357	29.43	C1
t-Butyl Alcohol	1	0		3.46	86.24	100	20		0.030	0.026	13.76	
n-Hexane	1	0		3.85	15.30	20	20		0.174	0.133	23.51	C1
Di-isopropyl-ether	1	0		4.01	18.52	20	20		0.596	0.552	7.38	
1,1-Dichloroethene	1	0		2.98	15.61	20	20	0.1	0.288	0.225	21.95	C1
Methyl Acetate	1	0		3.29	17.13	20	20	0.1	0.191	0.164	14.34	
Methyl-t-butyl ether	1	0		3.62	18.71	20	20	0.1	0.636	0.595	6.44	
1,1-Dichloroethane	1	0		3.98	17.92	20	20	0.2	0.356	0.319	10.41	
trans-1,2-Dichloroethene	1	0		3.63	17.73	20	20	0.1	0.218	0.193	11.34	
Ethyl-t-butyl ether	1	0		4.28	18.89	20	20	0.5	0.651	0.614	5.54	
cis-1,2-Dichloroethene	1	0		4.40	18.73	20	20	0.1	0.359	0.336	6.34	
Bromochloromethane	1	0		4.55	19.72	20	20		0.155	0.153	1.38	
2,2-Dichloropropane	1	0		4.40	18.67	20	20		0.327	0.306	6.64	
Ethyl acetate	1	0		4.42	18.36	20	20		0.247	0.226	8.18	
1,4-Dioxane	1	0		5.48	920.43	1000	20		0.004	0.003	7.96	
1,1-Dichloropropene	1	0		4.81	18.98	20	20		0.294	0.279	5.09	
Chloroform	1	0		4.59	19.97	20	20	0.2	0.395	0.395	0.14	
Dibromofluoromethane	1	0	S	4.69	29.83	30	**		0.288	0.286	0.57	
Cyclohexane	1	0		4.76	17.24	20	20	0.1	0.250	0.216	13.81	
1,2-Dichloroethane-d4	1	0	S	4.90	28.86	30	**		0.147	0.141	3.81	
1,2-Dichloroethane	1	0		4.94	19.10	20	20	0.1	0.318	0.304	4.48	
2-Butanone	1	0		4.40	17.56	20	20	0.1	0.106	0.093	12.22	
1,1,1-Trichloroethane	1	0		4.72	19.20	20	20	0.1	0.368	0.353	3.98	
Carbon Tetrachloride	1	0		4.82	19.29	20	20	0.1	0.290	0.280	3.53	
Vinyl Acetate	1	0		4.01	18.16	20	20		0.675	0.613	9.20	
Bromodichloromethane	1	0		5.56	20.40	20	20	0.2	0.300	0.306	1.98	
Methylcyclohexane	1	0		5.40	19.51	20	20	0.1	0.252	0.246	2.46	
Dibromomethane	1	0		5.49	20.47	20	20		0.173	0.177	2.33	
1,2-Dichloropropane	1	0		5.42	19.85	20	20	0.1	0.203	0.201	0.76	
Trichloroethene	1	0		5.29	20.00	20	20	0.2	0.251	0.251	0.02	
Benzene	1	0		4.94	19.26	20	20	0.5	0.821	0.791	3.70	
tert-Amyl methyl ether	1	0		4.98	19.70	20	20		0.642	0.632	1.49	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.94	17.74	20	20	0.5	0.543	0.482	11.32	
Methyl methacrylate	1	0		5.45	17.46	20	20	0.5	0.251	0.219	12.72	
Dibromochloromethane	1	0		6.42	20.79	20	20	0.1	0.296	0.308	3.96	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB Data File: 2M162298.D Instrument: GCMS 2

Cont Calibration Date/Time 1/11/2022 8:39:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.70	15.96	20	20		0.006	0.005	20.18	
cis-1,3-Dichloropropene	1	0		5.79	19.36	20	20	0.2	0.438	0.423	3.22	
trans-1,3-Dichloropropene	1	0		6.08	19.05	20	20	0.1	0.406	0.387	4.76	
Ethyl methacrylate	1	0		6.10	18.79	20	20	0.5	0.257	0.242	6.03	
1,1,2-Trichloroethane	1	0		6.19	20.69	20	20	0.1	0.257	0.266	3.44	
1,2-Dibromoethane	1	0		6.49	20.22	20	20	0.1	0.289	0.292	1.10	
1,3-Dichloropropane	1	0		6.28	20.05	20	20		0.432	0.433	0.25	
4-Methyl-2-Pentanone	1	0		5.86	18.22	20	20	0.1	0.298	0.271	8.91	
2-Hexanone	1	0		6.30	18.00	20	20	0.1	0.220	0.198	10.00	
Tetrachloroethene	1	0		6.28	19.98	20	20	0.2	0.239	0.238	0.09	
Toluene-d8	1	0	S	5.95	29.33	30	**		1.259	1.231	2.25	
Toluene	1	0		5.98	19.63	20	20	0.4	0.678	0.666	1.84	
1,1,1,2-Tetrachloroethane	1	0		6.78	20.60	20	20		0.278	0.286	3.01	
Chlorobenzene	1	0		6.74	20.64	20	20	0.5	0.755	0.779	3.20	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	19.41	20	20	0.5	1.165	1.130	2.96	
n-Amyl acetate	1	0		7.10	18.87	20	20	0.5	1.046	0.987	5.67	
Bromoform	1	0		7.20	20.23	20	20	0.1	0.478	0.483	1.13	
Ethylbenzene	1	0		6.79	19.63	20	20	0.1	0.734	0.720	1.83	
1,1,2,2-Tetrachloroethane	1	0		7.42	20.36	20	20	0.1	0.777	0.791	1.79	
Bromofluorobenzene	1	0	S	7.36	30.88	30	**		0.870	0.896	2.94	
Styrene	1	0		7.07	20.16	20	20	0.3	1.727	1.741	0.80	
m&p-Xylenes	1	0		6.84	40.60	40	20	0.1	1.020	1.035	1.50	
o-Xylene	1	0		7.07	20.14	20	20	0.3	1.015	1.022	0.71	
trans-1,4-Dichloro-2-butene	1	0		7.44	18.59	20	20		0.302	0.281	7.06	
1,3-Dichlorobenzene	1	0		7.98	21.04	20	20	0.6	1.061	1.117	5.21	
1,4-Dichlorobenzene	1	0		8.03	21.10	20	20	0.5	1.097	1.158	5.50	
1,2-Dichlorobenzene	1	0		8.26	21.06	20	20	0.4	1.021	1.075	5.29	
Isopropylbenzene	1	0		7.26	21.01	20	20	0.1	2.314	2.431	5.06	
Cyclohexanone	1	0		7.34	134.21	100	20		0.034	0.046	34.21	C1
Camphene	1	0		7.43	20.84	20	20		0.604	0.629	4.20	
1,2,3-Trichloropropane	1	0		7.45	19.11	20	20		1.012	0.966	4.46	
2-Chlorotoluene	1	0		7.56	21.42	20	20		1.360	1.456	7.12	
p-Ethyltoluene	1	0		7.54	21.35	20	20		2.472	2.639	6.74	
4-Chlorotoluene	1	0		7.62	20.84	20	20		1.381	1.439	4.20	
n-Propylbenzene	1	0		7.49	21.13	20	20		2.515	2.657	5.66	
Bromobenzene	1	0		7.46	20.34	20	20		1.481	1.506	1.70	
1,3,5-Trimethylbenzene	1	0		7.57	19.98	20	20		1.674	1.673	0.10	
Butyl methacrylate	1	0		7.58	19.82	20	20	0.5	0.747	0.740	0.90	
t-Butylbenzene	1	0		7.77	21.05	20	20		1.685	1.773	5.24	
1,2,4-Trimethylbenzene	1	0		7.79	20.52	20	20		1.810	1.857	2.60	
sec-Butylbenzene	1	0		7.89	21.39	20	20		1.986	2.124	6.94	
4-Isopropyltoluene	1	0		7.96	20.56	20	20		1.775	1.824	2.78	
n-Butylbenzene	1	0		8.20	21.26	20	20		1.745	1.855	6.32	
p-Diethylbenzene	1	0		8.18	20.65	20	20		1.039	1.073	3.25	
1,2,4,5-Tetramethylbenzene	1	0		8.64	21.01	20	20		1.521	1.598	5.07	
1,2-Dibromo-3-Chloropropane	1	0		8.71	17.83	20	20	0.05	0.197	0.176	10.86	
Camphor	1	0		9.14	159.22	200	20		0.106	0.085	20.39	
Hexachlorobutadiene	1	0		9.27	21.29	20	20		0.234	0.249	6.46	
1,2,4-Trichlorobenzene	1	0		9.20	20.63	20	20	0.2	0.528	0.545	3.15	
1,2,3-Trichlorobenzene	1	0		9.49	19.19	20	20		0.458	0.439	4.05	
Naphthalene	1	0		9.35	18.14	20	20		1.748	1.585	9.32	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

2011002 0111

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M157111.D Method: EPA 8260D

Analysis Date/Time: 12/29/21 16:18

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	362677	5.30	330385	6.96	211258	8.25								
Eval File Area Limit:	181338-725354		165192-660770		105629-422516									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.75-8.75									
Data File Sample														
1M157107.D CAL @ 0.5 PPB	337465	5.30	318569	6.96	184140	8.25								
1M157108.D CAL @ 1 PPB	328675	5.30	314249	6.96	179683	8.25								
1M157109.D CAL @ 5 PPB	332496	5.30	306851	6.96	186779	8.25								
1M157110.D CAL @ 10 PPB	354514	5.30	328796	6.96	207064	8.25								
1M157111.D CAL @ 20 PPB	362677	5.30	330385	6.96	211258	8.25								
1M157112.D CAL @ 50 PPB	382193	5.30	351717	6.96	227181	8.25								
1M157113.D CAL @ 100 PPB	339979	5.30	310780	6.96	206893	8.25								
1M157116.D 250 PPB	379252	5.30	354325	6.96	75291 A	8.25								
1M157117.D 250 PPB	392035	5.30	347126	6.96	73517 A	8.26								
1M157119.D 500 PPB	385202	5.30	373283	6.96	90172 A	8.25								
1M157126.D ICV	353660	5.30	322766	6.96	198073	8.25								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2011002 0112

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M161965.D Method: EPA 8260D

Analysis Date/Time: 01/03/22 23:12

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	430080	5.09	336651	6.73	160045	8.02								
Eval File Area Limit:	215040-860160		168326-673302		80022-320090									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M161961.D CAL @ 0.5 PPB	378384	5.09	297049	6.73	131818	8.02								
2M161962.D CAL @ 1 PPB	379656	5.09	292295	6.73	129675	8.02								
2M161963.D CAL @ 5 PPB	423316	5.09	330944	6.73	152342	8.02								
2M161964.D CAL @ 10 PPB	376549	5.09	294274	6.73	137589	8.02								
2M161965.D CAL @ 20 PPB	430080	5.09	336651	6.73	160045	8.02								
2M161967.D CAL @ 50 PPB	381222	5.09	305373	6.73	141801	8.02								
2M161969.D CAL @ 100 PPB	406131	5.09	332933	6.73	159292	8.02								
2M161971.D CAL @ 250 PPB	401907	5.09	334983	6.73	162147	8.02								
2M161973.D CAL @ 500 PPB	356825	5.09	304088	6.73	153988	8.02								
2M161975.D BLK	392867	5.09	306507	6.73	135844	8.02								
2M161978.D 1 PPB	379697	5.09	298614	6.73	136834	8.02								
2M161979.D ICV	351129	5.09	279413	6.73	133874	8.02								
2M161980.D STD	441840	5.09	356806	6.73	167251	8.02								
2M161981.D BLK	379515	5.09	297899	6.73	135372	8.02								
2M161982.D BLK	372716	5.09	293011	6.73	137012	8.02								
2M161983.D DAILY BLANK	370013	5.09	292267	6.73	135786	8.02								
2M161984.D DAILY BLANK	348546	5.09	277924	6.73	130659	8.02								
2M161985.D MDL @ 1 PPB	349050	5.09	276043	6.73	125368	8.02								
2M161986.D MDL @ 1 PPB	377362	5.09	300829	6.73	142571	8.02								
2M161987.D @ 1 PPB	345193	5.09	277107	6.73	127202	8.02								
2M161988.D 1 PPB	401269	5.09	317954	6.73	143600	8.02								
2M161989.D MBS99204	347851	5.09	274571	6.73	126904	8.02								
2M161990.D MBS99205	382191	5.09	307106	6.73	148275	8.02								
2M161991.D MBS99206	351751	5.09	276643	6.73	133137	8.02								
2M161992.D MBS99207	411260	5.09	325239	6.73	151894	8.02								
2M161993.D MBS99208	353779	5.09	283449	6.73	137293	8.02								
2M161994.D MBS99209	407961	5.09	327904	6.73	155168	8.02								
2M161995.D MBS99210	369433	5.09	295683	6.73	139062	8.02								
2M161996.D BLK	370890	5.09	298555	6.73	139547	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M157491.D Method: EPA 8260D

Analysis Date/Time: 01/10/22 12:10

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	467128	5.30	467862	6.96	265807	8.25								
Eval File Area Limit:	233564-934256		233931-935724		132904-531614									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.75-8.75									

Data File	Sample						
1M157490.D	BLK	8785178	5.30	2005189	6.95	517799	8.25
1M157493.D	STD	461070	5.30	432037	6.96	254689	8.25
1M157495.D	HCL	437457	5.30	427926	6.96	256510	8.25
1M157496.D	DAILY BLANK	430216	5.30	421005	6.96	250641	8.26
1M157497.D	DAILY BLANK	423485	5.30	418290	6.96	253001	8.26
1M157498.D	BLK	411163	5.30	398279	6.96	226042	8.25
1M157499.D	AD28179-001(T)	422147	5.30	422712	6.96	245086	8.25
1M157500.D	AD28179-002(T)	404652	5.30	406257	6.96	230466	8.26
1M157501.D	AD28179-003(T)	404347	5.30	391961	6.96	234273	8.26
1M157502.D	MBS99263	397101	5.30	383068	6.96	232682	8.25
1M157503.D	MBS99264	401099	5.30	377204	6.96	235510	8.25
1M157504.D	AD28179-001(T:MS)	385082	5.30	369035	6.96	228605	8.25
1M157505.D	AD28179-001(T:MSD)	387103	5.30	365715	6.96	223693	8.25
1M157506.D	BLK	397246	5.30	393582	6.96	238485	8.25
1M157507.D	BLK	379169	5.30	369649	6.96	227850	8.25
1M157508.D	AD28173-001(T)	383798	5.30	387570	6.96	231874	8.25
1M157509.D	AD28173-002(T)	375555	5.30	367635	6.96	221303	8.25
1M157510.D	AD28173-003(T)	382276	5.30	364805	6.96	217882	8.25
1M157511.D	AD28173-004(T)	381873	5.30	383227	6.96	229041	8.26
1M157512.D	AD28197-001(T)	342536	5.30	338076	6.96	198580	8.25
1M157513.D	AD28235-009	328228	5.30	331862	6.96	195054	8.25
1M157514.D	MBS99267	312476	5.30	307459	6.96	196159	8.25
1M157515.D	MBS99268	320186	5.30	311707	6.96	200987	8.25
1M157516.D	MBS99269	306003	5.30	294341	6.95	187917	8.25
1M157517.D	MBS99270	327253	5.30	322086	6.96	207327	8.25
1M157518.D	BLK	300481	5.30	299798	6.96	183116	8.25
1M157519.D	EF-3V-14202(010722)	335563	5.30	335876	6.96	209896	8.25
1M157520.D	EF-3V-14202(010622)	324640	5.30	333533	6.96	202952	8.26
1M157521.D	AD28235-004	336126	5.30	318794	6.96	182428	8.26
1M157522.D	AD28235-005	344638	5.30	340551	6.96	210835	8.25
1M157523.D	AD28235-006	320655	5.30	321573	6.96	182990	8.25
1M157524.D	AD28235-007	299162	5.30	298981	6.96	176812	8.25

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M157491.D Method: EPA 8260D

Analysis Date/Time: 01/10/22 12:10

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	467128	5.30	467862	6.96	265807	8.25								
Eval File Area Limit:	233564-934256		233931-935724		132904-531614									
Eval File Rt Limit:	4.8-5.8		6.46-7.46		7.75-8.75									
Data File Sample														
1M157525.D AD28235-008	296879	5.30	300900	6.96	183241	8.25								
1M157526.D AD28235-001	292607	5.30	290280	6.96	173314	8.25								
1M157527.D AD28235-002	297664	5.30	305855	6.96	187693	8.25								
1M157528.D AD28235-003	286327	5.30	294752	6.95	177507	8.25								
1M157529.D AD28235-003	300379	5.30	297372	6.96	183762	8.25								
1M157530.D AD28229-001	279411	5.30	283560	6.96	173394	8.25								
1M157531.D AD28229-001	317627	5.30	325358	6.96	196392	8.25								
1M157532.D BLK	282406	5.30	292387	6.96	174841	8.26								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2011002 0115

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162298.D Method: EPA 8260D

Analysis Date/Time: 01/11/22 08:39

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	369540	5.09	306176	6.73	143818	8.02								
Eval File Area Limit:	184770-739080		153088-612352		71909-287636									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162300.D DI	339930	5.09	284161	6.73	133596	8.02								
2M162301.D JUG 1	383317	5.09	318062	6.73	146952	8.02								
2M162302.D DAILY BLANK	381416	5.09	314030	6.73	145924	8.02								
2M162303.D DAILY BLANK	366793	5.09	307389	6.73	143051	8.02								
2M162304.D AD28235-008	390187	5.09	324438	6.73	150612	8.02								
2M162305.D AD28229-001	338698	5.09	279483	6.73	130432	8.02								
2M162306.D AD28235-003	330012	5.09	274456	6.73	129970	8.02								
2M162307.D AD28235-006	379860	5.09	317725	6.73	146919	8.02								
2M162308.D AD28235-007	329372	5.09	272590	6.73	127076	8.02								
2M162309.D 28235-005(5X)	330152	5.09	271128	6.73	125371	8.02								
2M162310.D AD28235-004(5X)	325914	5.09	271244	6.73	123327	8.02								
2M162311.D BLK	324421	5.09	269634	6.73	125540	8.02								
2M162312.D AD28231-002	321658	5.09	269831	6.73	147989	8.02								
2M162313.D AD28226-020(MS)	358495	5.09	291152	6.73	138600	8.02								
2M162314.D AD28226-020(MSD)	365575	5.08	297887	6.73	142109	8.01								
2M162315.D MBS99274	351650	5.09	293072	6.73	139902	8.02								
2M162316.D MBS99275	394592	5.09	325142	6.73	158543	8.02								
2M162317.D AD28235-008(MS)	337107	5.09	281598	6.73	137341	8.02								
2M162318.D AD28235-008(MSD)	370528	5.09	310036	6.73	153104	8.02								
2M162319.D AD28226-020	338674	5.08	277764	6.73	134220	8.02								
2M162320.D BLK	344153	5.09	289012	6.73	135497	8.02								
2M162321.D AD28174-006	351473	5.09	290349	6.73	135604	8.02								
2M162322.D AD28193-001	353410	5.09	293788	6.73	136662	8.02								
2M162323.D AD28193-003	341958	5.09	286422	6.73	135787	8.02								
2M162324.D AD28235-005(5X)	341257	5.09	279338	6.73	131369	8.02								
2M162325.D BLK	340552	5.09	282914	6.73	132488	8.02								
2M162326.D AD28239-010	364411	5.09	311438	6.73	148452	8.01								
2M162327.D AD28239-011	361784	5.09	301710	6.73	142103	8.02								
2M162328.D AD28239-012	356343	5.09	297838	6.73	140634	8.02								
2M162329.D AD28239-014	346934	5.09	292958	6.73	141163	8.02								
2M162330.D AD28239-013(10X)	354739	5.09	292729	6.73	139846	8.02								
2M162331.D BLK	353309	5.09	294364	6.73	136123	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2011002 0116

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162298.D Method: EPA 8260D

Analysis Date/Time: 01/11/22 08:39

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	369540	5.09	306176	6.73	143818	8.02								
Eval File Area Limit:	184770-739080		153088-612352		71909-287636									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162332.D BLK	341037	5.09	283916	6.73	131147	8.02								
2M162333.D AD28126-002	325355	5.08	276172	6.73	144726	8.01								
2M162334.D AD28177-025	339333	5.08	281003	6.73	133357	8.02								
2M162335.D AD28196-002	343202	5.08	286527	6.73	155184	8.01								
2M162336.D 28253-001	358549	5.08	294922	6.73	140779	8.01								
2M162337.D 28253-002	351495	5.08	292594	6.73	135270	8.01								
2M162338.D 28253-003	362749	5.08	301163	6.73	144989	8.01								
2M162339.D 28253-004	354525	5.08	295010	6.73	144696	8.02								
2M162340.D 28253-005	351928	5.09	296403	6.73	139763	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-001
Client Id: MW-001
Data File: 9M110663.D
Analysis Date: 01/12/22 10:21
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 875ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.1	U	50-32-8	Benzo[a]pyrene	1.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	205-99-2	Benzo[b]fluoranthene	1.1	U
122-66-7	1,2-Diphenylhydrazine	1.1	U	191-24-2	Benzo[g,h,i]perylene	0.48	U
123-91-1	1,4-Dioxane	0.29	U	207-08-9	Benzo[k]fluoranthene	1.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.1	U	100-51-6	Benzyl alcohol	1.1	U
95-95-4	2,4,5-Trichlorophenol	1.1	U	111-91-1	bis(2-Chloroethoxy)methan	1.1	U
88-06-2	2,4,6-Trichlorophenol	1.1	U	111-44-4	bis(2-Chloroethyl)ether	0.29	U
120-83-2	2,4-Dichlorophenol	0.29	U	108-60-1	bis(2-chloroisopropyl)ether	1.1	U
105-67-9	2,4-Dimethylphenol	0.32	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.1	U
51-28-5	2,4-Dinitrophenol	5.7	U	85-68-7	Butylbenzylphthalate	1.1	U
121-14-2	2,4-Dinitrotoluene	1.1	U	105-60-2	Caprolactam	1.1	U
606-20-2	2,6-Dinitrotoluene	1.1	U	86-74-8	Carbazole	1.1	U
91-58-7	2-Chloronaphthalene	1.1	U	218-01-9	Chrysene	1.1	U
95-57-8	2-Chlorophenol	1.1	U	53-70-3	Dibenzo[a,h]anthracene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U	132-64-9	Dibenzofuran	0.39	U
95-48-7	2-Methylphenol	0.29	U	84-66-2	Diethylphthalate	1.1	U
88-74-4	2-Nitroaniline	1.1	U	131-11-3	Dimethylphthalate	1.1	U
88-75-5	2-Nitrophenol	1.1	U	84-74-2	Di-n-butylphthalate	0.62	U
106-44-5	3&4-Methylphenol	0.29	U	117-84-0	Di-n-octylphthalate	1.1	U
91-94-1	3,3'-Dichlorobenzidine	1.1	U	206-44-0	Fluoranthene	1.1	U
99-09-2	3-Nitroaniline	1.1	U	86-73-7	Fluorene	1.1	U
534-52-1	4,6-Dinitro-2-methylphenol	5.7	U	118-74-1	Hexachlorobenzene	1.1	U
101-55-3	4-Bromophenyl-phenylether	1.1	U	87-68-3	Hexachlorobutadiene	1.1	U
59-50-7	4-Chloro-3-methylphenol	1.1	U	77-47-4	Hexachlorocyclopentadiene	1.1	U
106-47-8	4-Chloroaniline	0.29	U	67-72-1	Hexachloroethane	1.1	U
7005-72-3	4-Chlorophenyl-phenylether	1.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.1	U
100-01-6	4-Nitroaniline	1.1	U	78-59-1	Isophorone	1.1	U
100-02-7	4-Nitrophenol	1.1	U	91-20-3	Naphthalene	0.29	U
83-32-9	Acenaphthene	1.1	U	98-95-3	Nitrobenzene	1.1	U
208-96-8	Acenaphthylene	1.1	U	62-75-9	N-Nitrosodimethylamine	1.1	U
98-86-2	Acetophenone	1.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.37	U
120-12-7	Anthracene	1.1	U	86-30-6	n-Nitrosodiphenylamine	1.1	U
1912-24-9	Atrazine	1.1	U	87-86-5	Pentachlorophenol	5.7	U
100-52-7	Benzaldehyde	1.1	U	85-01-8	Phenanthrene	1.1	U
92-87-5	Benzidine	5.7	U	108-95-2	Phenol	1.1	U
56-55-3	Benzo[a]anthracene	1.1	U	129-00-0	Pyrene	1.1	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

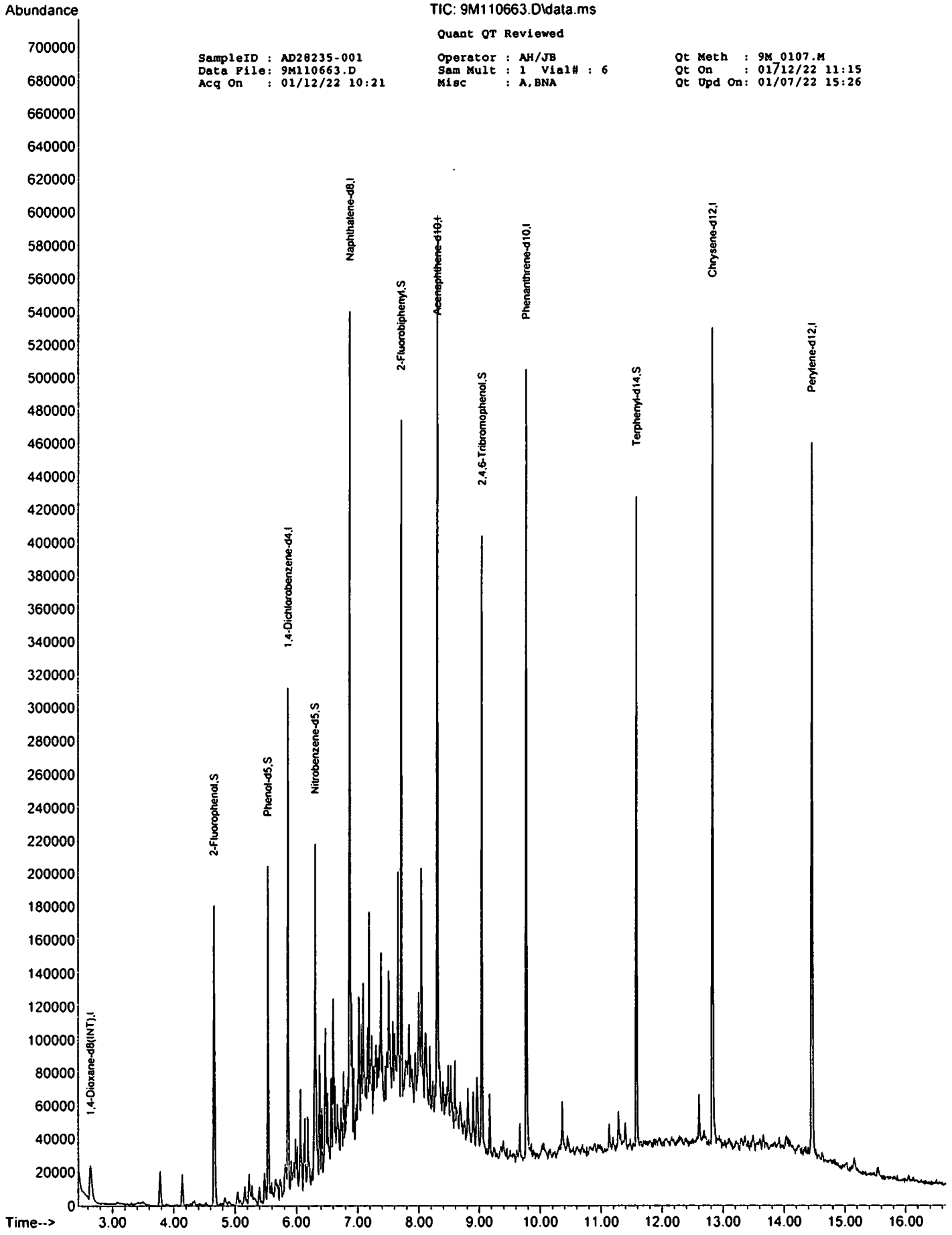
Quantitation Report (QT Reviewed)

SampleID : AD28235-001 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110663.D Sam Mult : 1 Vial# : 6 Qt On : 01/12/22 11:15
Acq On : 01/12/22 10:21 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.643	96	21396	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.866	152	45956	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	168654	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	95967	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	188886	40.00	ng	0.00
91) Chrysene-d12	12.830	240	180062	40.00	ng	0.00
103) Perylene-d12	14.460	264	201730	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	60537	44.05	ng	0.00
Spiked Amount 100.000			Recovery = 44.05%			
16) Phenol-d5	5.537	99	57461	32.83	ng	0.00
Spiked Amount 100.000			Recovery = 32.83%			
32) Nitrobenzene-d5	6.307	128	23530	37.73	ng	0.00
Spiked Amount 50.000			Recovery = 75.46%			
55) 2-Fluorobiphenyl	7.713	172	114090	33.50	ng	0.00
Spiked Amount 50.000			Recovery = 67.00%			
80) 2,4,6-Tribromophenol	9.048	330	37396	75.56	ng	0.00
Spiked Amount 100.000			Recovery = 75.56%			
94) Terphenyl-d14	11.583	244	121267	39.15	ng	0.00
Spiked Amount 50.000			Recovery = 78.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110663.D\data.ms
Quant QT Reviewed
SampleID : AD28235-001
Data File: 9M110663.D
Acq On : 01/12/22 10:21
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/12/22 11:15
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-002
Client Id: MW-002
Data File: 9M110664.D
Analysis Date: 01/12/22 10:44
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.85	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

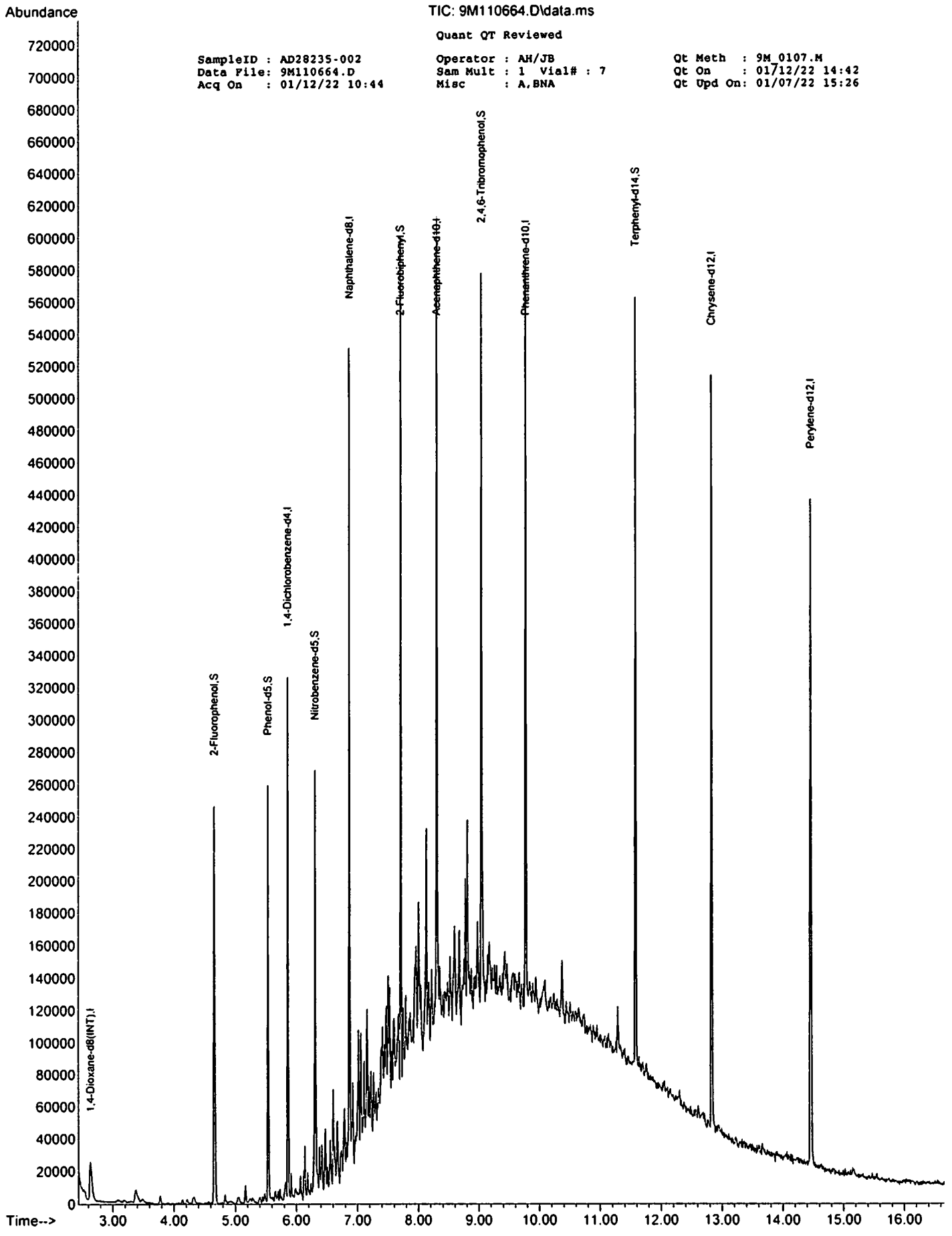
Quantitation Report (QT Reviewed)

SampleID : AD28235-002 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110664.D Sam Mult : 1 Vial# : 7 Qt On : 01/12/22 14:42
Acq On : 01/12/22 10:44 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.637	96	21946	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.860	152	46826	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	172695	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	97293	40.00	ng	0.00
77) Phenanthrene-d10	9.778	188	181451	40.00	ng	0.00
91) Chrysene-d12	12.830	240	175527	40.00	ng	0.00
103) Perylene-d12	14.460	264	201656	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	81380	57.73	ng	0.00
Spiked Amount 100.000			Recovery = 57.73%			
16) Phenol-d5	5.537	99	73869	41.14	ng	0.00
Spiked Amount 100.000			Recovery = 41.14%			
32) Nitrobenzene-d5	6.307	128	30444	47.67	ng	0.00
Spiked Amount 50.000			Recovery = 95.34%			
55) 2-Fluorobiphenyl	7.713	172	146282	42.36	ng	0.00
Spiked Amount 50.000			Recovery = 84.72%			
80) 2,4,6-Tribromophenol	9.048	330	46034	96.82	ng	0.00
Spiked Amount 100.000			Recovery = 96.82%			
94) Terphenyl-d14	11.583	244	146215	48.42	ng	0.00
Spiked Amount 50.000			Recovery = 96.84%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110664.D\data.ms
Quant QT Reviewed
SampleID : AD28235-002
Data File: 9M110664.D
Acq On : 01/12/22 10:44
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/12/22 14:42
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-003
Client Id: MW-004
Data File: 9M110665.D
Analysis Date: 01/12/22 11:06
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.85	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

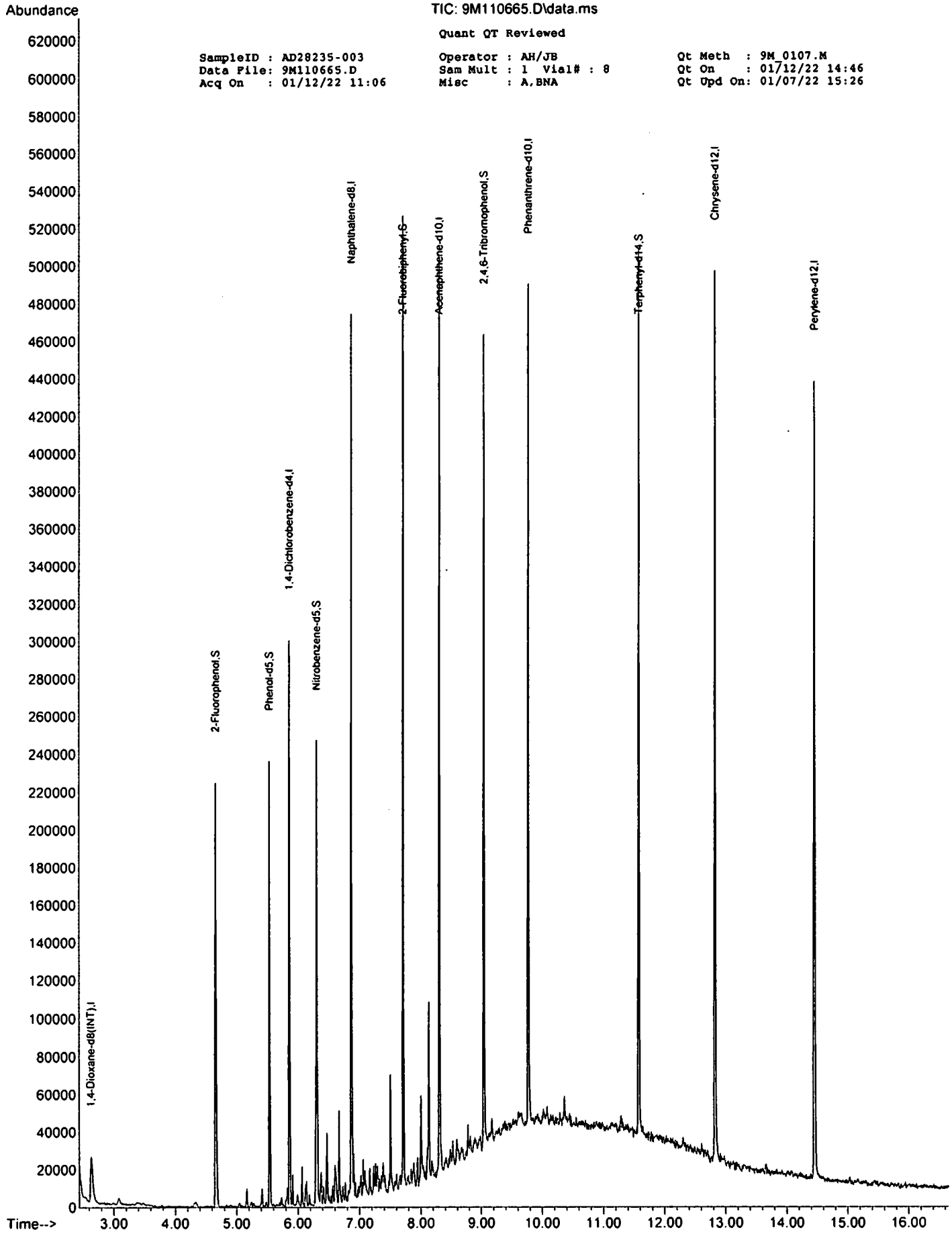
Quantitation Report (QT Reviewed)

SampleID : AD28235-003 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110665.D Sam Mult : 1 Vial# : 8 Qt On : 01/12/22 14:46
Acq On : 01/12/22 11:06 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.631	96	21903	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.860	152	45358	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	170474	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	92898	40.00	ng	0.00
77) Phenanthrene-d10	9.777	188	179482	40.00	ng	0.00
91) Chrysene-d12	12.830	240	176581	40.00	ng	0.00
103) Perylene-d12	14.460	264	195974	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	75122	53.39	ng	0.00
Spiked Amount 100.000			Recovery = 53.39%			
16) Phenol-d5	5.537	99	66437	37.08	ng	0.00
Spiked Amount 100.000			Recovery = 37.08%			
32) Nitrobenzene-d5	6.307	128	29118	46.19	ng	0.00
Spiked Amount 50.000			Recovery = 92.38%			
55) 2-Fluorobiphenyl	7.713	172	145554	44.14	ng	0.00
Spiked Amount 50.000			Recovery = 88.28%			
80) 2,4,6-Tribromophenol	9.048	330	44727	95.11	ng	0.00
Spiked Amount 100.000			Recovery = 95.11%			
94) Terphenyl-d14	11.583	244	141734	46.66	ng	0.00
Spiked Amount 50.000			Recovery = 93.32%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : AD28235-003
Data File: 9M110665.D
Acq On : 01/12/22 11:06
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/12/22 14:46
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-004
Client Id: TMW-004D
Data File: 9M110666.D
Analysis Date: 01/12/22 11:29
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.85	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD28235-004 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110666.D Sam Mult : 1 Vial# : 9 Qt On : 01/12/22 14:47
Acq On : 01/12/22 11:29 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.643	96	21683	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.866	152	41817	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	161058	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	93988	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	184380	40.00	ng	0.00
91) Chrysene-d12	12.830	240	177111	40.00	ng	0.00
103) Perylene-d12	14.460	264	192552	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	68456	49.15	ng	0.00
Spiked Amount 100.000			Recovery = 49.15%			
16) Phenol-d5	5.537	99	61949	34.92	ng	0.00
Spiked Amount 100.000			Recovery = 34.92%			
32) Nitrobenzene-d5	6.307	128	29500	49.53	ng	0.00
Spiked Amount 50.000			Recovery = 99.06%			
55) 2-Fluorobiphenyl	7.713	172	150145	45.01	ng	0.00
Spiked Amount 50.000			Recovery = 90.02%			
80) 2,4,6-Tribromophenol	9.048	330	48180	99.73	ng	0.00
Spiked Amount 100.000			Recovery = 99.73%			
94) Terphenyl-d14	11.583	244	155838	51.15	ng	0.00
Spiked Amount 50.000			Recovery = 102.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

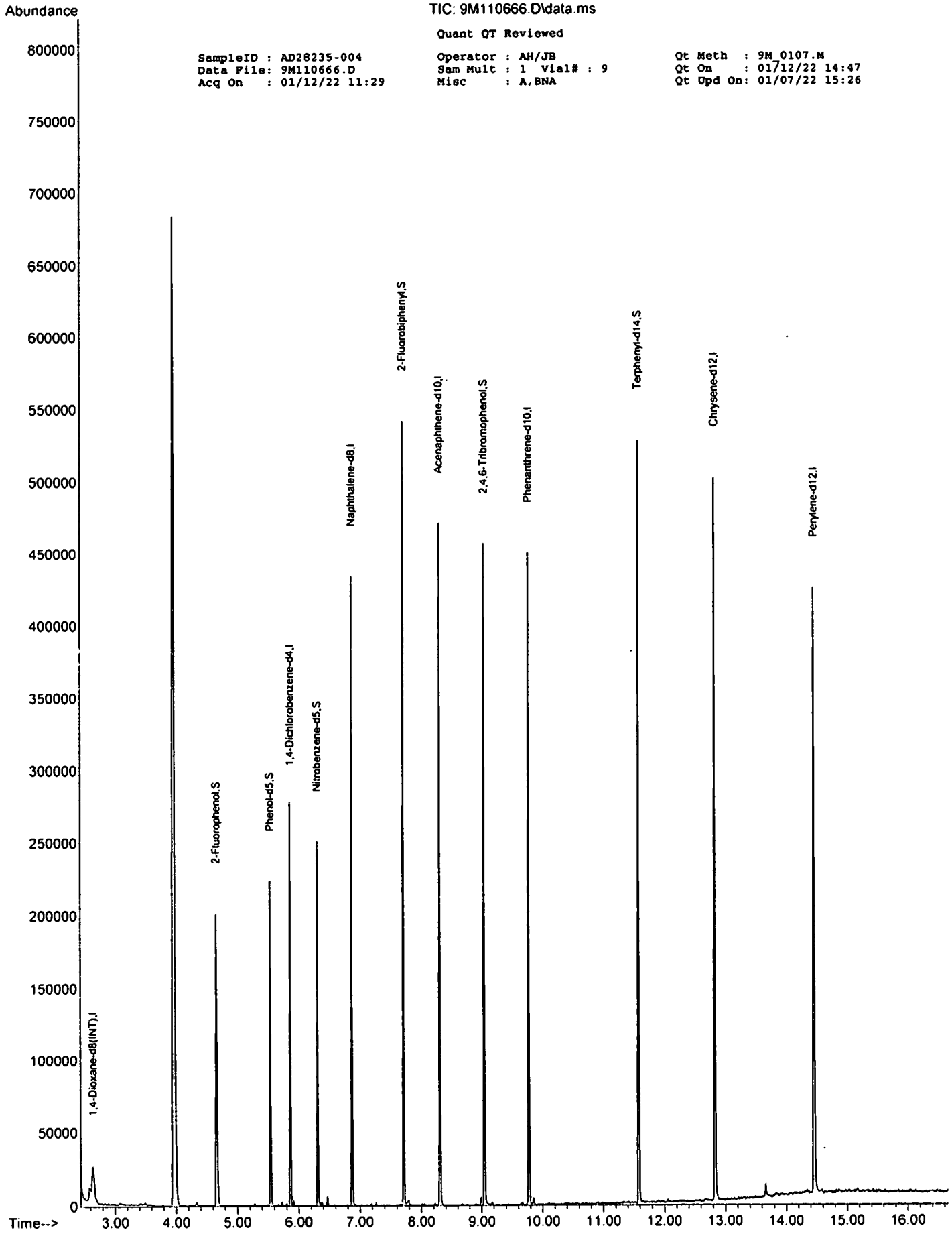
TIC: 9M110666.D\data.ms

Quant QT Reviewed

SampleID : AD28235-004
Data File: 9M110666.D
Acq On : 01/12/22 11:29

Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA

Qt Meth : 9M_0107.M
Qt On : 01/12/22 14:47
Qt Upd On: 01/07/22 15:26



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-005
Client Id: TMW-004S
Data File: 9M110667.D
Analysis Date: 01/12/22 11:52
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 875ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.1	U	50-32-8	Benzo[a]pyrene	1.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	205-99-2	Benzo[b]fluoranthene	1.1	U
122-66-7	1,2-Diphenylhydrazine	1.1	U	191-24-2	Benzo[g,h,i]perylene	0.48	U
123-91-1	1,4-Dioxane	0.29	U	207-08-9	Benzo[k]fluoranthene	1.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.1	U	100-51-6	Benzyl alcohol	1.1	U
95-95-4	2,4,5-Trichlorophenol	1.1	U	111-91-1	bis(2-Chloroethoxy)methan	1.1	U
88-06-2	2,4,6-Trichlorophenol	1.1	U	111-44-4	bis(2-Chloroethyl)ether	0.29	U
120-83-2	2,4-Dichlorophenol	0.29	U	108-60-1	bis(2-chloroisopropyl)ether	1.1	U
105-67-9	2,4-Dimethylphenol	0.32	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.1	U
51-28-5	2,4-Dinitrophenol	5.7	U	85-68-7	Butylbenzylphthalate	1.1	U
121-14-2	2,4-Dinitrotoluene	1.1	U	105-60-2	Caprolactam	1.1	U
606-20-2	2,6-Dinitrotoluene	1.1	U	86-74-8	Carbazole	1.1	U
91-58-7	2-Chloronaphthalene	1.1	U	218-01-9	Chrysene	1.1	U
95-57-8	2-Chlorophenol	1.1	U	53-70-3	Dibenzo[a,h]anthracene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U	132-64-9	Dibenzofuran	0.39	U
95-48-7	2-Methylphenol	0.29	U	84-66-2	Diethylphthalate	1.1	U
88-74-4	2-Nitroaniline	1.1	U	131-11-3	Dimethylphthalate	1.1	U
88-75-5	2-Nitrophenol	1.1	U	84-74-2	Di-n-butylphthalate	0.62	U
106-44-5	3&4-Methylphenol	0.29	U	117-84-0	Di-n-octylphthalate	1.1	U
91-94-1	3,3'-Dichlorobenzidine	1.1	U	206-44-0	Fluoranthene	1.1	U
99-09-2	3-Nitroaniline	1.1	U	86-73-7	Fluorene	1.1	U
534-52-1	4,6-Dinitro-2-methylphenol	5.7	U	118-74-1	Hexachlorobenzene	1.1	U
101-55-3	4-Bromophenyl-phenylether	1.1	U	87-68-3	Hexachlorobutadiene	1.1	U
59-50-7	4-Chloro-3-methylphenol	1.1	U	77-47-4	Hexachlorocyclopentadiene	1.1	U
106-47-8	4-Chloroaniline	0.29	U	67-72-1	Hexachloroethane	1.1	U
7005-72-3	4-Chlorophenyl-phenylether	1.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.1	U
100-01-6	4-Nitroaniline	1.1	U	78-59-1	Isophorone	1.1	U
100-02-7	4-Nitrophenol	1.1	U	91-20-3	Naphthalene	0.29	U
83-32-9	Acenaphthene	1.1	U	98-95-3	Nitrobenzene	1.1	U
208-96-8	Acenaphthylene	1.1	U	62-75-9	N-Nitrosodimethylamine	1.1	U
98-86-2	Acetophenone	1.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.37	U
120-12-7	Anthracene	1.1	U	86-30-6	n-Nitrosodiphenylamine	1.1	U
1912-24-9	Atrazine	1.1	U	87-86-5	Pentachlorophenol	5.7	U
100-52-7	Benzaldehyde	1.1	U	85-01-8	Phenanthrene	1.1	U
92-87-5	Benzidine	5.7	U	108-95-2	Phenol	1.1	U
56-55-3	Benzo[a]anthracene	1.1	U	129-00-0	Pyrene	1.1	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

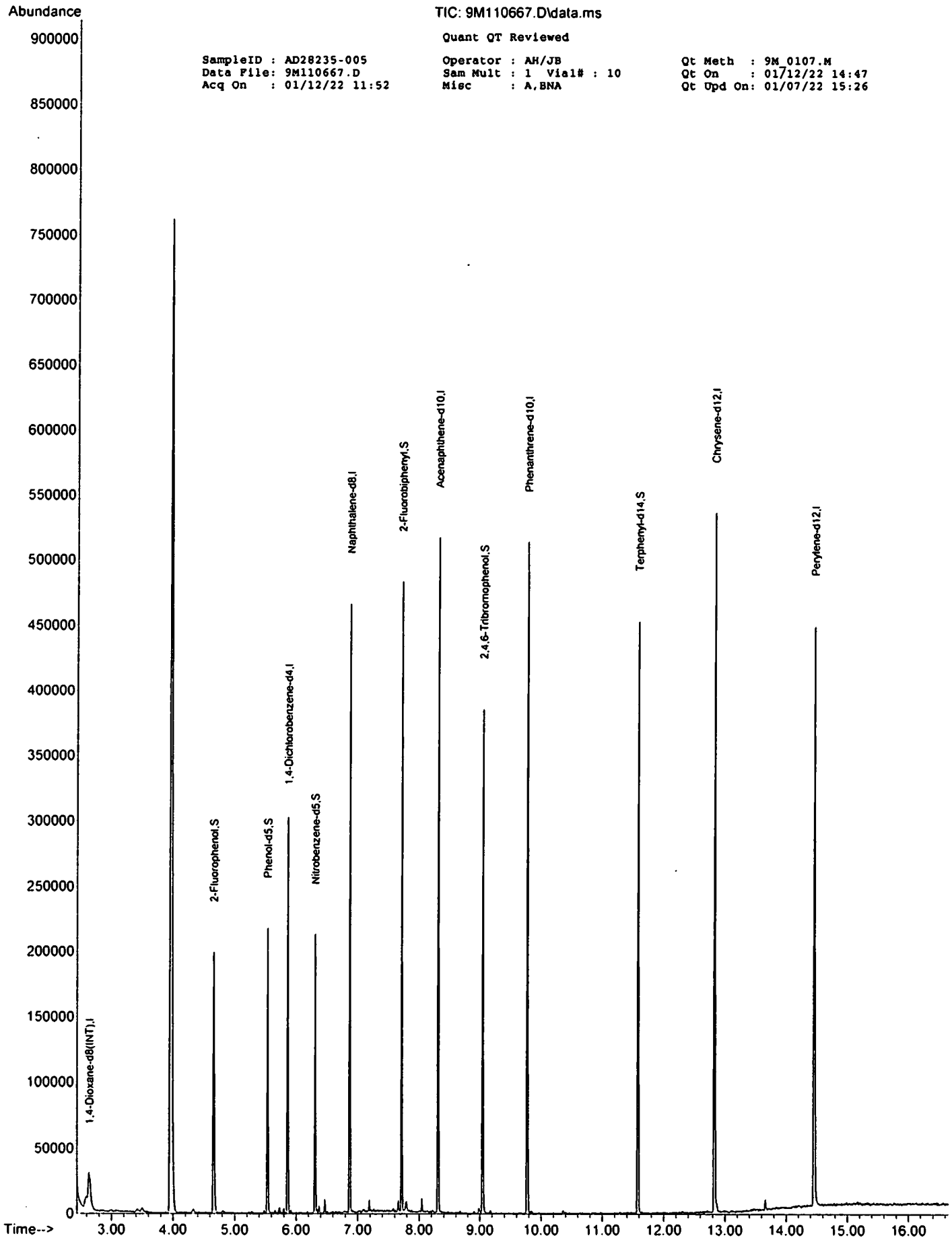
Quantitation Report (QT Reviewed)

SampleID : AD28235-005 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110667.D Sam Mult : 1 Vial# : 10 Qt On : 01/12/22 14:47
Acq On : 01/12/22 11:52 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.643	96	25002	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.866	152	44485	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	172106	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	97954	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	199483	40.00	ng	0.00
91) Chrysene-d12	12.830	240	196278	40.00	ng	0.00
103) Perylene-d12	14.460	264	209598	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	65633	40.87	ng	0.00
Spiked Amount 100.000			Recovery = 40.87%			
16) Phenol-d5	5.537	99	60939	29.79	ng	0.00
Spiked Amount 100.000			Recovery = 29.79%			
32) Nitrobenzene-d5	6.307	128	24875	39.08	ng	0.00
Spiked Amount 50.000			Recovery = 78.16%			
55) 2-Fluorobiphenyl	7.713	172	127326	36.62	ng	0.00
Spiked Amount 50.000			Recovery = 73.24%			
80) 2,4,6-Tribromophenol	9.048	330	41570	79.53	ng	0.00
Spiked Amount 100.000			Recovery = 79.53%			
94) Terphenyl-d14	11.583	244	139262	41.24	ng	0.00
Spiked Amount 50.000			Recovery = 82.48%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110667.D\data.ms
Quant QT Reviewed
SampleID : AD28235-005
Data File: 9M110667.D
Acq On : 01/12/22 11:52
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/12/22 14:47
Qt Upd On: 01/07/22 15:26
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
4.00
5.00
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7.00
8.00
9.00
10.00
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12.00
13.00
14.00
15.00
16.00

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-006
Client Id: TMW-006S
Data File: 9M110668.D
Analysis Date: 01/12/22 12:15
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 825ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.2	U	50-32-8	Benzo[a]pyrene	1.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	205-99-2	Benzo[b]fluoranthene	1.2	U
122-66-7	1,2-Diphenylhydrazine	1.2	U	191-24-2	Benzo[g,h,i]perylene	0.51	U
123-91-1	1,4-Dioxane	0.30	U	207-08-9	Benzo[k]fluoranthene	1.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.2	U	100-51-6	Benzyl alcohol	1.2	U
95-95-4	2,4,5-Trichlorophenol	1.2	U	111-91-1	bis(2-Chloroethoxy)methan	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U	111-44-4	bis(2-Chloroethyl)ether	0.30	U
120-83-2	2,4-Dichlorophenol	0.30	U	108-60-1	bis(2-chloroisopropyl)ether	1.2	U
105-67-9	2,4-Dimethylphenol	0.33	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
51-28-5	2,4-Dinitrophenol	6.1	U	85-68-7	Butylbenzylphthalate	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U	105-60-2	Caprolactam	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U	86-74-8	Carbazole	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U	218-01-9	Chrysene	1.2	U
95-57-8	2-Chlorophenol	1.2	U	53-70-3	Dibenzo[a,h]anthracene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U	132-64-9	Dibenzofuran	0.41	U
95-48-7	2-Methylphenol	0.30	U	84-66-2	Diethylphthalate	1.2	U
88-74-4	2-Nitroaniline	1.2	U	131-11-3	Dimethylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U	84-74-2	Di-n-butylphthalate	0.66	U
106-44-5	3&4-Methylphenol	0.30	U	117-84-0	Di-n-octylphthalate	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U	206-44-0	Fluoranthene	1.2	U
99-09-2	3-Nitroaniline	1.2	U	86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	6.1	U	118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U	87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U	77-47-4	Hexachlorocyclopentadiene	1.2	U
106-47-8	4-Chloroaniline	0.30	U	67-72-1	Hexachloroethane	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
100-01-6	4-Nitroaniline	1.2	U	78-59-1	Isophorone	1.2	U
100-02-7	4-Nitrophenol	1.2	U	91-20-3	Naphthalene	0.30	U
83-32-9	Acenaphthene	1.2	U	98-95-3	Nitrobenzene	1.2	U
208-96-8	Acenaphthylene	1.2	U	62-75-9	N-Nitrosodimethylamine	1.2	U
98-86-2	Acetophenone	1.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.39	U
120-12-7	Anthracene	1.2	U	86-30-6	n-Nitrosodiphenylamine	1.2	U
1912-24-9	Atrazine	1.2	U	87-86-5	Pentachlorophenol	6.1	U
100-52-7	Benzaldehyde	1.2	U	85-01-8	Phenanthrene	1.2	U
92-87-5	Benzidine	6.0	U	108-95-2	Phenol	1.2	U
56-55-3	Benzo[a]anthracene	1.2	U	129-00-0	Pyrene	1.2	U

Worksheet #: 625448 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

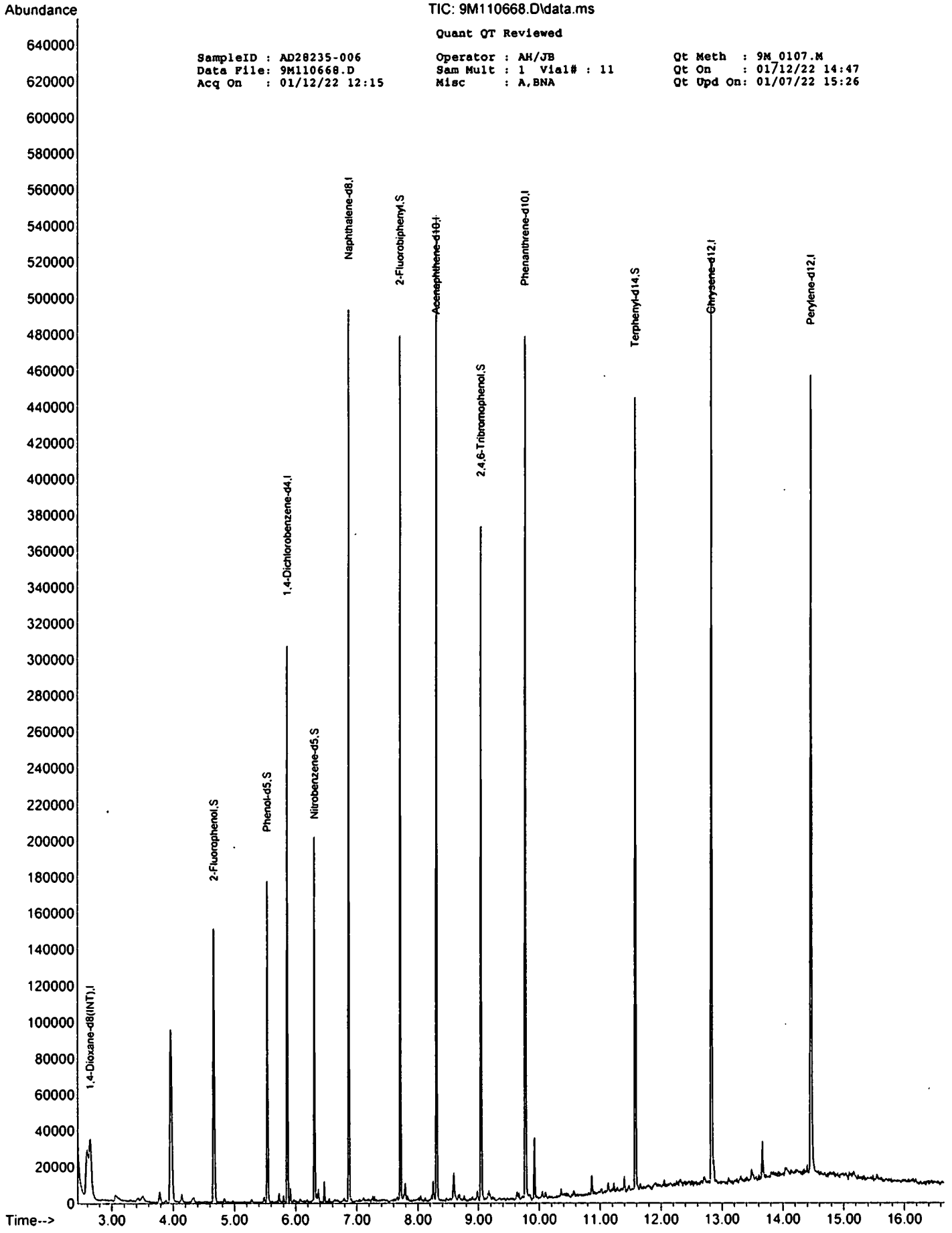
Quantitation Report (QT Reviewed)

SampleID : AD28235-006 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110668.D Sam Mult : 1 Vial# : 11 Qt On : 01/12/22 14:47
Acq On : 01/12/22 12:15 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.648	96	25904	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.866	152	46239	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	180800	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	103423	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	200126	40.00	ng	0.00
91) Chrysene-d12	12.830	240	189565	40.00	ng	0.00
103) Perylene-d12	14.465	264	207472	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.666	112	56108	33.72	ng	0.00
Spiked Amount 100.000			Recovery = 33.72%			
16) Phenol-d5	5.537	99	52997	25.01	ng	0.00
Spiked Amount 100.000			Recovery = 25.01%			
32) Nitrobenzene-d5	6.313	128	24248	36.27	ng	0.00
Spiked Amount 50.000			Recovery = 72.54%			
55) 2-Fluorobiphenyl	7.713	172	130127	35.45	ng	0.00
Spiked Amount 50.000			Recovery = 70.90%			
80) 2,4,6-Tribromophenol	9.048	330	38297	73.03	ng	0.00
Spiked Amount 100.000			Recovery = 73.03%			
94) Terphenyl-d14	11.583	244	133264	40.87	ng	0.00
Spiked Amount 50.000			Recovery = 81.74%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110668.D\data.ms
Quant QT Reviewed
SampleID : AD28235-006
Data File: 9M110668.D
Acq On : 01/12/22 12:15
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/12/22 14:47
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-007
Client Id: TMW-006D
Data File: 9M110669.D
Analysis Date: 01/12/22 12:38
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	50-32-8	Benzo[a]pyrene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
122-66-7	1,2-Diphenylhydrazine	2.2	U	191-24-2	Benzo[g,h,i]perylene	0.94	U
123-91-1	1,4-Dioxane	0.56	U	207-08-9	Benzo[k]fluoranthene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	100-51-6	Benzyl alcohol	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.56	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.61	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.76	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	1.2	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	62-75-9	N-Nitrosodimethylamine	2.2	U
98-86-2	Acetophenone	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.71	U
120-12-7	Anthracene	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
1912-24-9	Atrazine	2.2	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.2	U	85-01-8	Phenanthrene	2.2	U
92-87-5	Benzidine	11	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

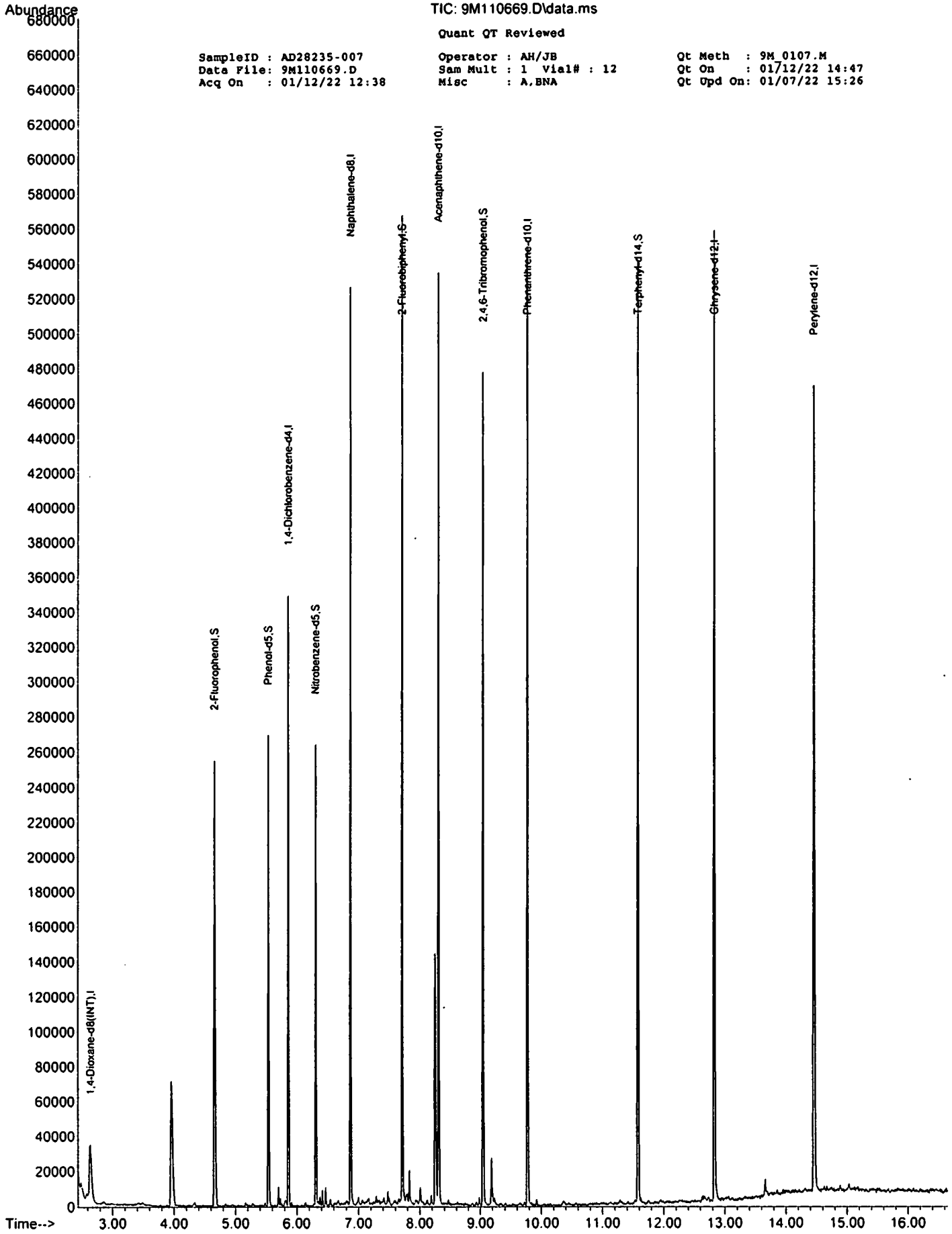
Quantitation Report (QT Reviewed)

SampleID : AD28235-007 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110669.D Sam Mult : 1 Vial# : 12 Qt On : 01/12/22 14:47
Acq On : 01/12/22 12:38 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.643	96	27840	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.860	152	49899	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	190352	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	102905	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	213481	40.00	ng	0.00
91) Chrysene-d12	12.830	240	206256	40.00	ng	0.00
103) Perylene-d12	14.460	264	223583	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	84610	47.31	ng	0.00
Spiked Amount 100.000			Recovery = 47.31%			
16) Phenol-d5	5.537	99	76503	33.59	ng	0.00
Spiked Amount 100.000			Recovery = 33.59%			
32) Nitrobenzene-d5	6.307	128	30812	43.77	ng	0.00
Spiked Amount 50.000			Recovery = 87.54%			
55) 2-Fluorobiphenyl	7.713	172	154442	42.28	ng	0.00
Spiked Amount 50.000			Recovery = 84.56%			
80) 2,4,6-Tribromophenol	9.048	330	48905	87.43	ng	0.00
Spiked Amount 100.000			Recovery = 87.43%			
94) Terphenyl-d14	11.583	244	162971	45.93	ng	0.00
Spiked Amount 50.000			Recovery = 91.86%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110669.D\data.ms
Quant QT Reviewed
SampleID : AD28235-007
Data File: 9M110669.D
Acq On : 01/12/22 12:38
Operator : AH/JB
Sam Mult : 1 Vial# : 12
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/12/22 14:47
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28235-008
Client Id: TMW-002
Data File: 9M110670.D
Analysis Date: 01/12/22 13:00
Date Rec/Extracted: 01/10/22-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 850ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.2	U	50-32-8	Benzo[a]pyrene	1.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	205-99-2	Benzo[b]fluoranthene	1.2	U
122-66-7	1,2-Diphenylhydrazine	1.2	U	191-24-2	Benzo[g,h,i]perylene	0.50	U
123-91-1	1,4-Dioxane	0.29	U	207-08-9	Benzo[k]fluoranthene	1.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.2	U	100-51-6	Benzyl alcohol	1.2	U
95-95-4	2,4,5-Trichlorophenol	1.2	U	111-91-1	bis(2-Chloroethoxy)methan	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U	111-44-4	bis(2-Chloroethyl)ether	0.29	U
120-83-2	2,4-Dichlorophenol	0.29	U	108-60-1	bis(2-chloroisopropyl)ether	1.2	U
105-67-9	2,4-Dimethylphenol	0.32	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
51-28-5	2,4-Dinitrophenol	5.9	U	85-68-7	Butylbenzylphthalate	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U	105-60-2	Caprolactam	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U	86-74-8	Carbazole	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U	218-01-9	Chrysene	1.2	U
95-57-8	2-Chlorophenol	1.2	U	53-70-3	Dibenzo[a,h]anthracene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U	132-64-9	Dibenzofuran	0.40	U
95-48-7	2-Methylphenol	0.29	U	84-66-2	Diethylphthalate	1.2	U
88-74-4	2-Nitroaniline	1.2	U	131-11-3	Dimethylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U	84-74-2	Di-n-butylphthalate	0.64	U
106-44-5	3&4-Methylphenol	0.29	U	117-84-0	Di-n-octylphthalate	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U	206-44-0	Fluoranthene	1.2	U
99-09-2	3-Nitroaniline	1.2	U	86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	5.9	U	118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U	87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U	77-47-4	Hexachlorocyclopentadiene	1.2	U
106-47-8	4-Chloroaniline	0.29	U	67-72-1	Hexachloroethane	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
100-01-6	4-Nitroaniline	1.2	U	78-59-1	Isophorone	1.2	U
100-02-7	4-Nitrophenol	1.2	U	91-20-3	Naphthalene	0.29	U
83-32-9	Acenaphthene	1.2	U	98-95-3	Nitrobenzene	1.2	U
208-96-8	Acenaphthylene	1.2	U	62-75-9	N-Nitrosodimethylamine	1.2	U
98-86-2	Acetophenone	1.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.38	U
120-12-7	Anthracene	1.2	U	86-30-6	n-Nitrosodiphenylamine	1.2	U
1912-24-9	Atrazine	1.2	U	87-86-5	Pentachlorophenol	5.9	U
100-52-7	Benzaldehyde	1.2	U	85-01-8	Phenanthrene	1.2	U
92-87-5	Benzidine	5.8	U	108-95-2	Phenol	1.2	U
56-55-3	Benzo[a]anthracene	1.2	U	129-00-0	Pyrene	1.2	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD28235-008 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110670.D Sam Mult : 1 Vial# : 13 Qt On : 01/12/22 14:47
Acq On : 01/12/22 13:00 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.637	96	23300	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.860	152	46764	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	179386	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	101258	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	193718	40.00	ng	0.00
91) Chrysene-d12	12.830	240	199466	40.00	ng	0.00
103) Perylene-d12	14.460	264	219749	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	72152	48.21	ng	0.00
Spiked Amount 100.000			Recovery = 48.21%			
16) Phenol-d5	5.537	99	70873	37.18	ng	0.00
Spiked Amount 100.000			Recovery = 37.18%			
32) Nitrobenzene-d5	6.307	128	27254	41.08	ng	0.00
Spiked Amount 50.000			Recovery = 82.16%			
55) 2-Fluorobiphenyl	7.713	172	134421	37.40	ng	0.00
Spiked Amount 50.000			Recovery = 74.80%			
80) 2,4,6-Tribromophenol	9.048	330	43196	85.10	ng	0.00
Spiked Amount 100.000			Recovery = 85.10%			
94) Terphenyl-d14	11.583	244	144913	42.23	ng	0.00
Spiked Amount 50.000			Recovery = 84.46%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

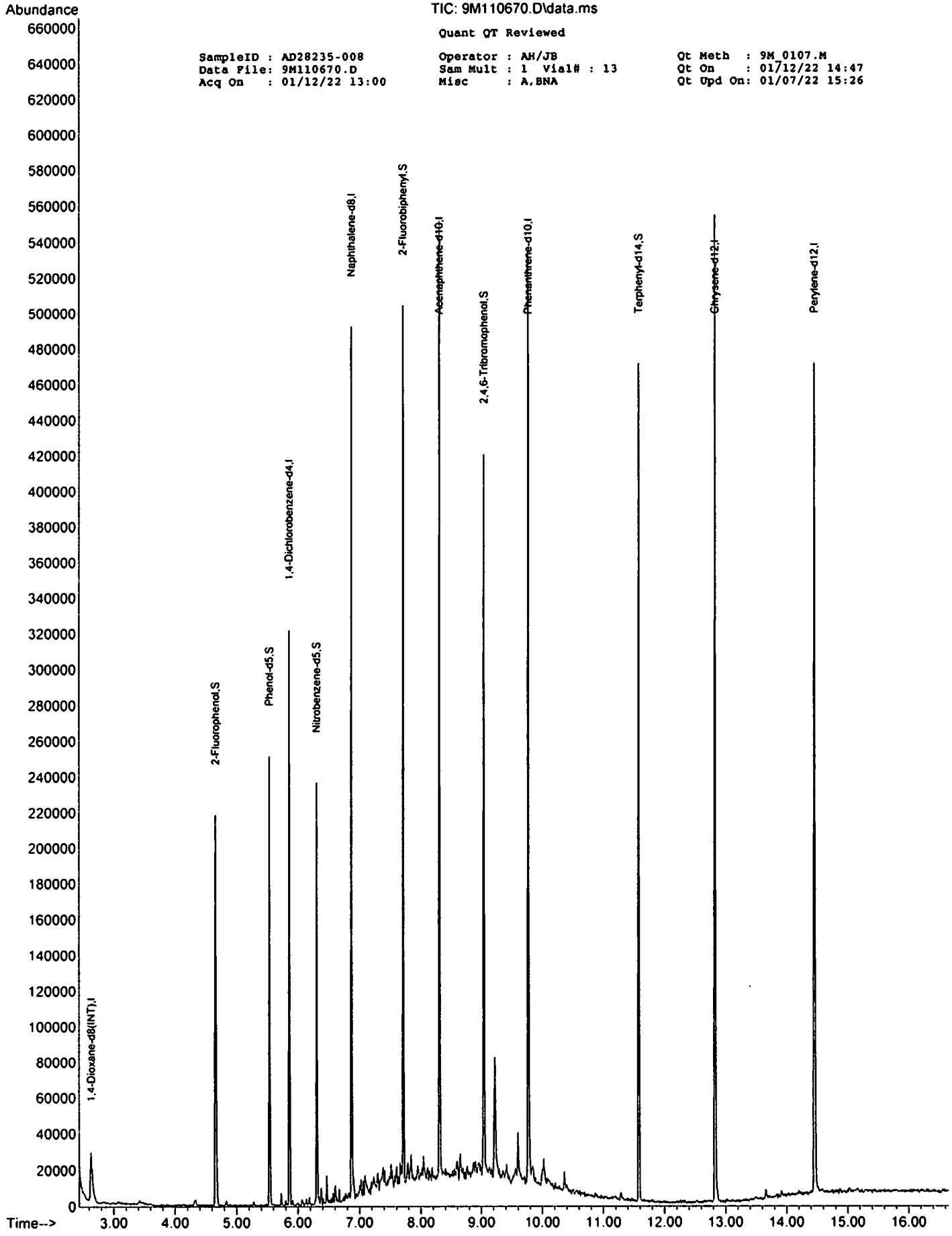
TIC: 9M110670.D\data.ms

Quant QT Reviewed

SampleID : AD28235-008
Data File: 9M110670.D
Acq On : 01/12/22 13:00

Operator : AH/JB
Sam Mult : 1 Vial# : 13
Misc : A,BNA

Qt Meth : 9M_0107.M
Qt On : 01/12/22 14:47
Qt Upd On: 01/07/22 15:26



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB98456
Client Id:
Data File: 9M110646.D
Analysis Date: 01/11/22 15:12
Date Rec/Extracted: NA-01/11/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.85	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625448

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

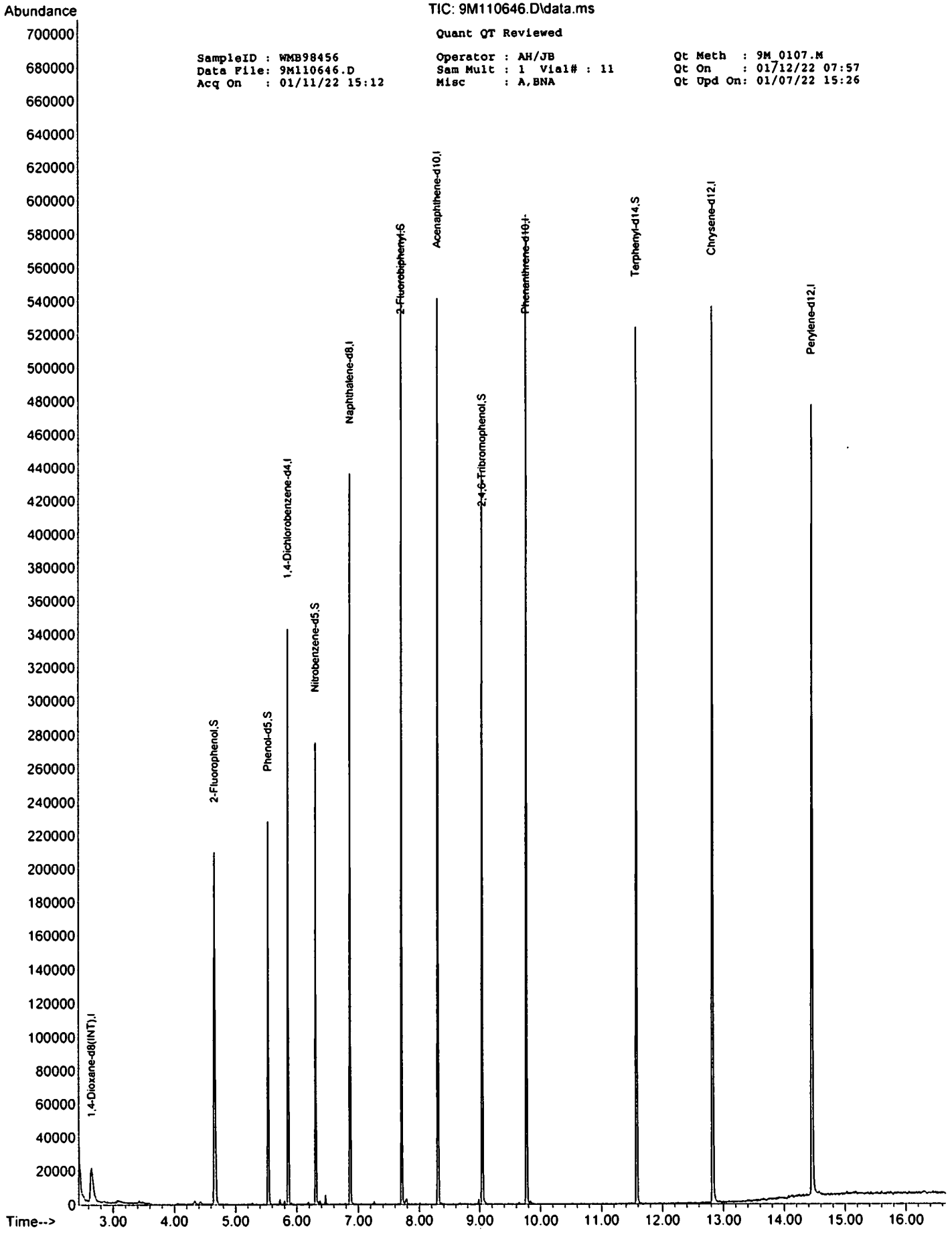
Quantitation Report (QT Reviewed)

SampleID : WMB98456 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110646.D Sam Mult : 1 Vial# : 11 Qt On : 01/12/22 07:57
Acq On : 01/11/22 15:12 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-11-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.648	96	21655	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.860	152	48389	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	182298	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	109439	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	222215	40.00	ng	0.00
91) Chrysene-d12	12.824	240	218052	40.00	ng	-0.01
103) Perylene-d12	14.459	264	232402	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.660	112	79891	57.43	ng	0.00
Spiked Amount 100.000			Recovery = 57.43%			
16) Phenol-d5	5.537	99	69447	39.20	ng	0.00
Spiked Amount 100.000			Recovery = 39.20%			
32) Nitrobenzene-d5	6.307	128	29470	43.71	ng	0.00
Spiked Amount 50.000			Recovery = 87.42%			
55) 2-Fluorobiphenyl	7.713	172	152215	39.19	ng	0.00
Spiked Amount 50.000			Recovery = 78.38%			
80) 2,4,6-Tribromophenol	9.048	330	49383	84.81	ng	0.00
Spiked Amount 100.000			Recovery = 84.81%			
94) Terphenyl-d14	11.577	244	164210	43.78	ng	0.00
Spiked Amount 50.000			Recovery = 87.56%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110646.D\data.ms
Quant QT Reviewed
SampleID : WMB98456
Data File: 9M110646.D
Acq On : 01/11/22 15:12
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/12/22 07:57
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl-S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I-
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M110646.D	WMB98456	A	01/11/22 15:12	1		57	39	87	78	85	88
9M110663.D	AD28235-001	A	01/12/22 10:21	1		44	33	75	67	76	78
9M110664.D	AD28235-002	A	01/12/22 10:44	1		58	41	95	85	97	97
9M110665.D	AD28235-003	A	01/12/22 11:06	1		53	37	92	88	95	93
9M110666.D	AD28235-004	A	01/12/22 11:29	1		49	35	99	90	100	102
9M110667.D	AD28235-005	A	01/12/22 11:52	1		41	30	78	73	80	82
9M110668.D	AD28235-006	A	01/12/22 12:15	1		34	25*	73	71	73	82
9M110669.D	AD28235-007	A	01/12/22 12:38	1		47	34	88	85	87	92
9M110670.D	AD28235-008	A	01/12/22 13:00	1		48	37	82	75	85	84
9M110645.D	WMB98456(MS)	A	01/11/22 14:50	1		52	37	78	61	80	81
9M110674.D	AD28065-003(T)	A	01/12/22 14:32	1		46	39	67	61	56	66
9M110675.D	AD28065-003(T)(MS)	A	01/12/22 14:54	1		54	52	80	67	78	85
9M110676.D	AD28065-003(T)(MSD)	A	01/12/22 15:17	1		56	53	80	69	75	85

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98456

Data File	Sample ID:	Analysis Date
Spike or Dup: 9M110645.D	WMB98456(MS)	1/11/2022 2:50:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	59.2356	0	100	59	20	160
Pyridine	1	65.95	0	100	66	5	150
N-Nitrosodimethylamine	1	56.3352	0	100	56	50	150
Benzaldehyde	1	72.1855	0	100	72	20	220
Aniline	1	95.2631	0	100	95	20	150
Pentachloroethane	1	78.7824	0	100	79	50	130
bis(2-Chloroethyl)ether	1	77.7087	0	100	78	50	130
Phenol	1	41.2208	0	100	41	20	150
2-Chlorophenol	1	66.9485	0	100	67*	70	130
N-Decane	1	76.4455	0	100	76	40	130
1,3-Dichlorobenzene	1	50.964	0	100	51	50	130
1,4-Dichlorobenzene	1	52.7243	0	100	53	50	130
1,2-Dichlorobenzene	1	53.5736	0	100	54	50	130
Benzyl alcohol	1	85.4782	0	100	85	70	130
bis(2-chloroisopropyl)ether	1	65.4185	0	100	65	40	130
2-Methylphenol	1	65.0423	0	100	65	60	130
Acetophenone	1	81.406	0	100	81	50	130
Hexachloroethane	1	51.3798	0	100	51	50	130
N-Nitroso-di-n-propylamine	1	76.7288	0	100	77	50	130
3&4-Methylphenol	1	63.9242	0	100	64	50	130
Nitrobenzene	1	75.9876	0	100	76	70	130
Isophorone	1	72.1678	0	100	72	70	130
2-Nitrophenol	1	77.9644	0	100	78	70	130
2,4-Dimethylphenol	1	70.5891	0	100	71	40	130
Benzoic Acid	1	16.4922	0	100	16*	20	130
bis(2-Chloroethoxy)methane	1	77.8101	0	100	78	70	130
2,4-Dichlorophenol	1	75.1871	0	100	75	70	130
1,2,4-Trichlorobenzene	1	70.0558	0	100	70	50	130
Naphthalene	1	74.6366	0	100	75	70	130
4-Chloroaniline	1	102.7247	0	100	103	50	150
Hexachlorobutadiene	1	62.7922	0	100	63*	70	130
Caprolactam	1	38.4817	0	100	38	20	130
4-Chloro-3-methylphenol	1	82.709	0	100	83	70	130
2-Methylnaphthalene	1	93.7706	0	100	94	70	130
1-Methylnaphthalene	1	81.0001	0	100	81	70	130
1,1'-Biphenyl	1	83.3618	0	100	83	70	130
1,2,4,5-Tetrachlorobenzene	1	76.9048	0	100	77	70	130
Hexachlorocyclopentadiene	1	57.7945	0	100	58	20	130
2,4,6-Trichlorophenol	1	89.105	0	100	89	70	130
2,4,5-Trichlorophenol	1	82.4809	0	100	82	70	130
2-Chloronaphthalene	1	74.9263	0	100	75	70	130
1,4-Dimethylnaphthalene	1	76.9977	0	100	77	70	130
Diphenyl Ether	1	80.2525	0	100	80	70	130
2-Nitroaniline	1	96.0856	0	100	96	50	150
Coumarin	1	84.5617	0	100	85	70	130
Acenaphthylene	1	70.8764	0	100	71	70	130
Dimethylphthalate	1	77.9217	0	100	78	70	130
2,6-Dinitrotoluene	1	77.458	0	100	77	70	130
Acenaphthene	1	73.4519	0	100	73	70	130
3-Nitroaniline	1	98.5964	0	100	99	50	150
2,4-Dinitrophenol	1	63.3063	0	100	63	20	150
Dibenzofuran	1	91.7638	0	100	92	70	130
2,4-Dinitrotoluene	1	80.1845	0	100	80	40	130
4-Nitrophenol	1	42.7039	0	100	43	20	150
2,3,4,6-Tetrachlorophenol	1	78.7452	0	100	79	70	130
Fluorene	1	72.7608	0	100	73	70	130
4-Chlorophenyl-phenylether	1	75.0695	0	100	75	70	130
Diethylphthalate	1	75.1316	0	100	75	50	130
4-Nitroaniline	1	95.0044	0	100	95	50	150
Atrazine	1	81.6914	0	100	82	50	130
4,6-Dinitro-2-methylphenol	1	81.5807	0	100	82	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98456

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	63.066	0	100	63	50	130
1,2-Diphenylhydrazine	1	72.2853	0	100	72	70	130
4-Bromophenyl-phenylether	1	75.8725	0	100	76	70	130
Hexachlorobenzene	1	72.8739	0	100	73	70	130
N-Octadecane	1	84.2238	0	100	84	70	130
Pentachlorophenol	1	88.9291	0	100	89	40	130
Phenanthrene	1	77.4052	0	100	77	70	130
Anthracene	1	76.4197	0	100	76	70	130
Carbazole	1	82.1265	0	100	82	70	130
Di-n-butylphthalate	1	80.5555	0	100	81	70	130
Fluoranthene	1	78.3082	0	100	78	70	130
Pyrene	1	75.483	0	100	75	70	130
Benzidine	1	8.1222	0	100	8.1	0	134
Butylbenzylphthalate	1	81.0708	0	100	81	50	130
3,3'-Dichlorobenzidine	1	72.2535	0	100	72	1	150
Benzo[a]anthracene	1	69.0455	0	100	69*	70	130
Chrysene	1	79.2119	0	100	79	50	130
bis(2-Ethylhexyl)phthalate	1	80.1706	0	100	80	70	130
Di-n-octylphthalate	1	84.5547	0	100	85	70	130
Benzo[b]fluoranthene	1	81.4027	0	100	81	70	130
Benzo[k]fluoranthene	1	75.1204	0	100	75	70	130
Benzo[a]pyrene	1	74.1357	0	100	74	70	130
Indeno[1,2,3-cd]pyrene	1	83.2928	0	100	83	70	130
Dibenzo[a,h]anthracene	1	78.6829	0	100	79	70	130
Benzo[g,h,i]perylene	1	76.0622	0	100	76	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98456

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110675.D	AD28065-003(T)(MS)	1/12/2022 2:54:00 PM
Non Spike(If applicable):	9M110674.D	AD28065-003(T)	1/12/2022 2:32:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	61.7202	0	100	62	20	160
Pyridine	1	54.8885	0	100	55	5	150
N-Nitrosodimethylamine	1	61.799	0	100	62	50	150
Benzaldehyde	1	67.1007	0	100	67	20	220
Aniline	1	77.662	0	100	78	20	150
Pentachloroethane	1	65.4101	0	100	65	50	130
bis(2-Chloroethyl)ether	1	65.4727	0	100	65	50	130
N-Decane	1	64.6971	0	100	65	40	130
1,3-Dichlorobenzene	1	57.0463	0	100	57	50	130
1,4-Dichlorobenzene	1	64.8623	0	100	65	50	130
1,2-Dichlorobenzene	1	65.2716	0	100	65	50	130
Benzyl alcohol	1	97.5527	0	100	98	70	130
bis(2-chloroisopropyl)ether	1	67.8178	0	100	68	40	130
Acetophenone	1	82.631	0	100	83	50	130
Hexachloroethane	1	66.5625	0	100	67	50	130
N-Nitroso-di-n-propylamine	1	76.0203	0	100	76	50	130
Nitrobenzene	1	77.9444	0	100	78	70	130
Isophorone	1	74.3337	0	100	74	70	130
Benzoic Acid	1	37.9863	0	100	38	20	130
bis(2-Chloroethoxy)methane	1	78.0251	0	100	78	70	130
1,2,4-Trichlorobenzene	1	72.7758	0	100	73	50	130
Naphthalene	1	77.4255	0	100	77	70	130
4-Chloroaniline	1	96.9964	0	100	97	50	150
Hexachlorobutadiene	1	67.6077	0	100	68*	70	130
Caprolactam	1	90.2212	0	100	90	20	130
2-Methylnaphthalene	1	96.6759	0	100	97	70	130
1-Methylnaphthalene	1	82.4648	0	100	82	70	130
1,1'-Biphenyl	1	82.5757	0	100	83	70	130
1,2,4,5-Tetrachlorobenzene	1	78.3107	0	100	78	70	130
Hexachlorocyclopentadiene	1	64.2964	0	100	64	20	130
2-Chloronaphthalene	1	77.4651	0	100	77	70	130
1,4-Dimethylnaphthalene	1	80.6562	0	100	81	70	130
Diphenyl Ether	1	83.7508	0	100	84	70	130
2-Nitroaniline	1	108.9399	0	100	109	50	150
Coumarin	1	89.2458	0	100	89	70	130
Acenaphthylene	1	72.867	0	100	73	70	130
Dimethylphthalate	1	83.7958	0	100	84	70	130
2,6-Dinitrotoluene	1	79.979	0	100	80	70	130
Acenaphthene	1	77.147	0	100	77	70	130
3-Nitroaniline	1	106.4109	0	100	106	50	150
Dibenzofuran	1	98.15	0	100	98	70	130
2,4-Dinitrotoluene	1	84.7103	0	100	85	40	130
Fluorene	1	75.4958	0	100	75	70	130
4-Chlorophenyl-phenylether	1	78.1103	0	100	78	70	130
Diethylphthalate	1	81.8623	0	100	82	50	130
4-Nitroaniline	1	106.7481	0	100	107	50	150
Atrazine	1	84.8334	0	100	85	50	130
n-Nitrosodiphenylamine	1	68.7757	0	100	69	50	130
1,2-Diphenylhydrazine	1	84.8518	0	100	85	70	130
4-Bromophenyl-phenylether	1	82.7792	0	100	83	70	130
Hexachlorobenzene	1	77.6034	0	100	78	70	130
N-Octadecane	1	92.6338	0	100	93	70	130
Phenanthrene	1	80.9337	0	100	81	70	130
Anthracene	1	80.8482	0	100	81	70	130
Carbazole	1	88.5566	0	100	89	70	130
Di-n-butylphthalate	1	85.3012	0	100	85	70	130
Fluoranthene	1	83.9336	0	100	84	70	130
Pyrene	1	79.6448	0	100	80	70	130
Benzidine	1	6.5716	0	100	6.6	0	134
Butylbenzylphthalate	1	86.9532	0	100	87	50	130
3,3'-Dichlorobenzidine	1	68.9734	0	100	69	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98456

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	74.0074	0	100	74	70	130
Chrysene	1	84.6499	0	100	85	50	130
bis(2-Ethylhexyl)phthalate	1	85.1289	0	100	85	70	130
Di-n-octylphthalate	1	91.5908	0	100	92	70	130
Benzo[b]fluoranthene	1	86.1292	0	100	86	70	130
Benzo[k]fluoranthene	1	84.0509	0	100	84	70	130
Benzo[a]pyrene	1	78.2554	0	100	78	70	130
Indeno[1,2,3-cd]pyrene	1	88.2684	0	100	88	70	130
Dibenzo[a,h]anthracene	1	84.0224	0	100	84	70	130
Benzo[g,h,i]perylene	1	80.0075	0	100	80	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98456

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110676.D	AD28065-003(T)(MSD)	1/12/2022 3:17:00 PM
Non Spike(If applicable):	9M110674.D	AD28065-003(T)	1/12/2022 2:32:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	71.4723	0	100	71	20	160
Pyridine	1	76.7383	0	100	77	5	150
N-Nitrosodimethylamine	1	72.7967	0	100	73	50	150
Benzaldehyde	1	73.1718	0	100	73	20	220
Aniline	1	91.9039	0	100	92	20	150
Pentachloroethane	1	71.2383	0	100	71	50	130
bis(2-Chloroethyl)ether	1	72.2568	0	100	72	50	130
N-Decane	1	72.1548	0	100	72	40	130
1,3-Dichlorobenzene	1	65.941	0	100	66	50	130
1,4-Dichlorobenzene	1	69.3624	0	100	69	50	130
1,2-Dichlorobenzene	1	69.5587	0	100	70	50	130
Benzyl alcohol	1	98.7293	0	100	99	70	130
bis(2-chloroisopropyl)ether	1	71.7368	0	100	72	40	130
Acetophenone	1	82.4398	0	100	82	50	130
Hexachloroethane	1	71.6042	0	100	72	50	130
N-Nitroso-di-n-propylamine	1	80.2296	0	100	80	50	130
Nitrobenzene	1	81.3394	0	100	81	70	130
Isophorone	1	74.7637	0	100	75	70	130
Benzoic Acid	1	39.2757	0	100	39	20	130
bis(2-Chloroethoxy)methane	1	81.145	0	100	81	70	130
1,2,4-Trichlorobenzene	1	74.8687	0	100	75	50	130
Naphthalene	1	79.4338	0	100	79	70	130
4-Chloroaniline	1	100.4461	0	100	100	50	150
Hexachlorobutadiene	1	71.4159	0	100	71	70	130
Caprolactam	1	87.7868	0	100	88	20	130
2-Methylnaphthalene	1	97.532	0	100	98	70	130
1-Methylnaphthalene	1	81.3834	0	100	81	70	130
1,1'-Biphenyl	1	82.2525	0	100	82	70	130
1,2,4,5-Tetrachlorobenzene	1	77.3533	0	100	77	70	130
Hexachlorocyclopentadiene	1	66.038	0	100	66	20	130
2-Chloronaphthalene	1	77.5688	0	100	78	70	130
1,4-Dimethylnaphthalene	1	79.9853	0	100	80	70	130
Diphenyl Ether	1	83.7242	0	100	84	70	130
2-Nitroaniline	1	107.0716	0	100	107	50	150
Coumarin	1	84.0805	0	100	84	70	130
Acenaphthylene	1	73.2591	0	100	73	70	130
Dimethylphthalate	1	82.7475	0	100	83	70	130
2,6-Dinitrotoluene	1	82.8342	0	100	83	70	130
Acenaphthene	1	78.1846	0	100	78	70	130
3-Nitroaniline	1	104.5645	0	100	105	50	150
Dibenzofuran	1	98.117	0	100	98	70	130
2,4-Dinitrotoluene	1	84.5509	0	100	85	40	130
Fluorene	1	76.0908	0	100	76	70	130
4-Chlorophenyl-phenylether	1	79.4253	0	100	79	70	130
Diethylphthalate	1	80.1928	0	100	80	50	130
4-Nitroaniline	1	105.1181	0	100	105	50	150
Atrazine	1	80.7774	0	100	81	50	130
n-Nitrosodiphenylamine	1	68.0003	0	100	68	50	130
1,2-Diphenylhydrazine	1	86.5291	0	100	87	70	130
4-Bromophenyl-phenylether	1	83.9309	0	100	84	70	130
Hexachlorobenzene	1	75.7622	0	100	76	70	130
N-Octadecane	1	92.0179	0	100	92	70	130
Phenanthrene	1	81.5396	0	100	82	70	130
Anthracene	1	81.1832	0	100	81	70	130
Carbazole	1	86.7202	0	100	87	70	130
Di-n-butylphthalate	1	84.9717	0	100	85	70	130
Fluoranthene	1	82.5918	0	100	83	70	130
Pyrene	1	80.0546	0	100	80	70	130
Benzidine	1	10.2423	0	100	10	0	134
Butylbenzylphthalate	1	87.821	0	100	88	50	130
3,3'-Dichlorobenzidine	1	69.3012	0	100	69	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98456

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	74.6333	0	100	75	70	130
Chrysene	1	85.1736	0	100	85	50	130
bis(2-Ethylhexyl)phthalate	1	86.473	0	100	86	70	130
Di-n-octylphthalate	1	90.1186	0	100	90	70	130
Benzo[b]fluoranthene	1	86.407	0	100	86	70	130
Benzo[k]fluoranthene	1	83.081	0	100	83	70	130
Benzo[a]pyrene	1	79.0627	0	100	79	70	130
Indeno[1,2,3-cd]pyrene	1	88.4013	0	100	88	70	130
Dibenzo[a,h]anthracene	1	85.2528	0	100	85	70	130
Benzo[g,h,i]perylene	1	80.7975	0	100	81	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB98456

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M110676.D	AD28065-003(T)(MSD)	1/12/2022 3:17:00 PM
Duplicate(If applicable):	9M110675.D	AD28065-003(T)(MS)	1/12/2022 2:54:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	71.4723	61.7202	15	20
Pyridine	1	76.7383	54.8885	33	40
N-Nitrosodimethylamine	1	72.7967	61.799	16	20
Benzaldehyde	1	73.1718	67.1007	8.7	20
Aniline	1	91.9039	77.662	17	20
Pentachloroethane	1	71.2383	65.4101	8.5	20
bis(2-Chloroethyl)ether	1	72.2568	65.4727	9.9	20
N-Decane	1	72.1548	64.6971	11	20
1,3-Dichlorobenzene	1	65.941	57.0463	14	20
1,4-Dichlorobenzene	1	69.3624	64.8623	6.7	40
1,2-Dichlorobenzene	1	69.5587	65.2716	6.4	20
Benzyl alcohol	1	98.7293	97.5527	1.2	20
bis(2-chloroisopropyl)ether	1	71.7368	67.8178	5.6	20
Acetophenone	1	82.4398	82.631	0.23	20
Hexachloroethane	1	71.6042	66.5625	7.3	40
N-Nitroso-di-n-propylamine	1	80.2296	76.0203	5.4	40
Nitrobenzene	1	81.3394	77.9444	4.3	40
Isophorone	1	74.7637	74.3337	0.58	20
Benzoic Acid	1	39.2757	37.9863	3.3	20
bis(2-Chloroethoxy)methane	1	81.145	78.0251	3.9	20
1,2,4-Trichlorobenzene	1	74.8687	72.7758	2.8	40
Naphthalene	1	79.4338	77.4255	2.6	40
4-Chloroaniline	1	100.4461	96.9964	3.5	20
Hexachlorobutadiene	1	71.4159	67.6077	5.5	40
Caprolactam	1	87.7868	90.2212	2.7	20
2-Methylnaphthalene	1	97.532	96.6759	0.88	20
1-Methylnaphthalene	1	81.3834	82.4648	1.3	20
1,1'-Biphenyl	1	82.2525	82.5757	0.39	20
1,2,4,5-Tetrachlorobenzene	1	77.3533	78.3107	1.2	20
Hexachlorocyclopentadiene	1	66.038	64.2964	2.7	20
2-Chloronaphthalene	1	77.5688	77.4651	0.13	20
1,4-Dimethylnaphthalene	1	79.9853	80.6562	0.84	20
Diphenyl Ether	1	83.7242	83.7508	0.03	20
2-Nitroaniline	1	107.0716	108.9399	1.7	20
Coumarin	1	84.0805	89.2458	6	20
Acenaphthylene	1	73.2591	72.867	0.54	20
Dimethylphthalate	1	82.7475	83.7958	1.3	20
2,6-Dinitrotoluene	1	82.8342	79.979	3.5	20
Acenaphthene	1	78.1846	77.147	1.3	40
3-Nitroaniline	1	104.5645	106.4109	1.8	20
Dibenzofuran	1	98.117	98.15	0.03	20
2,4-Dinitrotoluene	1	84.5509	84.7103	0.19	40
Fluorene	1	76.0908	75.4958	0.79	40
4-Chlorophenyl-phenylether	1	79.4253	78.1103	1.7	20
Diethylphthalate	1	80.1928	81.8623	2.1	20
4-Nitroaniline	1	105.1181	106.7481	1.5	20
Atrazine	1	80.7774	84.8334	4.9	20
n-Nitrosodiphenylamine	1	68.0003	68.7757	1.1	20
1,2-Diphenylhydrazine	1	86.5291	84.8518	2	20
4-Bromophenyl-phenylether	1	83.9309	82.7792	1.4	20
Hexachlorobenzene	1	75.7622	77.6034	2.4	40
N-Octadecane	1	92.0179	92.6338	0.67	20
Phenanthrene	1	81.5396	80.9337	0.75	20
Anthracene	1	81.1832	80.8482	0.41	20
Carbazole	1	86.7202	88.5566	2.1	20
Di-n-butylphthalate	1	84.9717	85.3012	0.39	20
Fluoranthene	1	82.5918	83.9336	1.6	20
Pyrene	1	80.0546	79.6448	0.51	40
Benzidine	1	10.2423	6.5716	44 *	20
Butylbenzylphthalate	1	87.821	86.9532	0.99	40
3,3'-Dichlorobenzidine	1	69.3012	68.9734	0.47	20

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB98456

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	74.6333	74.0074	0.84	20
Chrysene	1	85.1736	84.6499	0.62	20
bis(2-Ethylhexyl)phthalate	1	86.473	85.1289	1.6	20
Di-n-octylphthalate	1	90.1186	91.5908	1.6	20
Benzo[b]fluoranthene	1	86.407	86.1292	0.32	20
Benzo[k]fluoranthene	1	83.081	84.0509	1.2	20
Benzo[a]pyrene	1	79.0627	78.2554	1	20
Indeno[1,2,3-cd]pyrene	1	88.4013	88.2684	0.15	20
Dibenzo[a,h]anthracene	1	85.2528	84.0224	1.5	20
Benzo[g,h,i]perylene	1	80.7975	80.0075	0.98	20

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB98456
Blank Data File: 9M110646.D
Matrix: Aqueous

Blank Analysis Date: 01/11/22 15:12
Blank Extraction Date: 01/11/22
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD28235-001	9M110663.D	01/12/22 10:21
AD28235-002	9M110664.D	01/12/22 10:44
AD28235-003	9M110665.D	01/12/22 11:06
AD28235-004	9M110666.D	01/12/22 11:29
AD28235-005	9M110667.D	01/12/22 11:52
AD28235-006	9M110668.D	01/12/22 12:15
AD28235-007	9M110669.D	01/12/22 12:38
AD28235-008	9M110670.D	01/12/22 13:00
AD28065-003(T)(M	9M110676.D	01/12/22 15:17
AD28065-003(T)(M	9M110675.D	01/12/22 14:54
AD28065-003(T)	9M110674.D	01/12/22 14:32
WMB98456(MS)	9M110645.D	01/11/22 14:50

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9

Data File: 9M110575.D
Analysis Date: 01/07/22 09:12
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.060 to 10.066 min

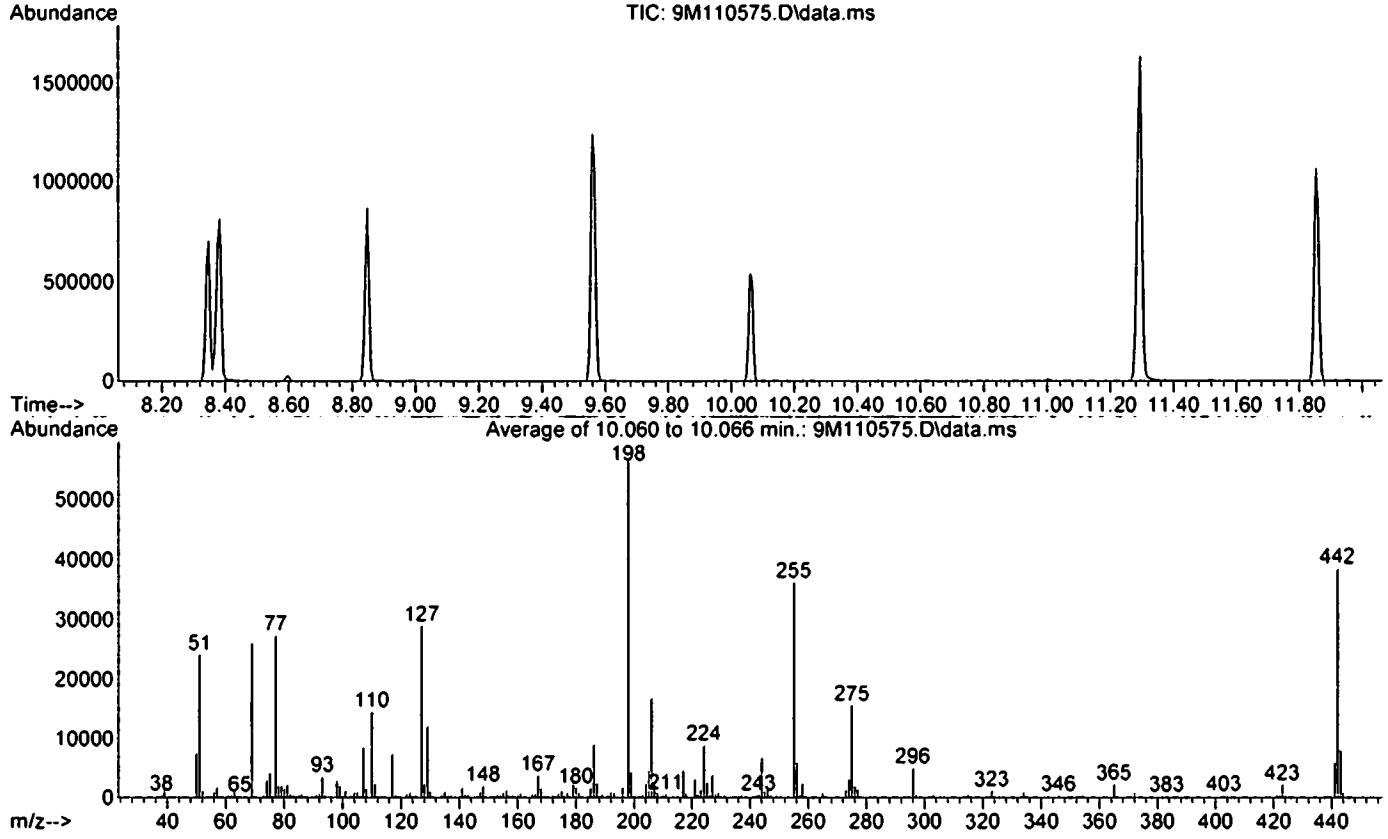
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	42.4	24120	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.8	26104	PASS
70	69	0.00	2	0.3	86	PASS
127	198	40	60	50.8	28940	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56952	PASS
199	198	5	9	7.5	4261	PASS
275	198	10	30	27.4	15595	PASS
365	198	1	100	3.9	2227	PASS
441	443	0.01	100	74.3	5889	PASS
442	198	40	100	67.4	38368	PASS
443	442	17	23	20.7	7931	PASS

Data File	Sample Number	Analysis Date:
9M110576.D	BNA@50PPM	01/07/22 09:41
9M110577.D	CAL BNA@50PPM	01/07/22 11:26
9M110578.D	CAL BNA@2PPM	01/07/22 11:59
9M110579.D	CAL BNA@10PPM	01/07/22 12:22
9M110580.D	CAL BNA@196PP	01/07/22 12:45
9M110581.D	CAL BNA@160PP	01/07/22 13:08
9M110582.D	CAL BNA@120PP	01/07/22 13:31
9M110583.D	CAL BNA@80PPM	01/07/22 13:54
9M110584.D	CAL BNA@20PPM	01/07/22 14:16
9M110585.D	CAL BNA@0.5PP	01/07/22 14:39
9M110586.D	CAL BNA@50PPM	01/07/22 15:02
9M110587.D	ICV BNA@50PPM	01/07/22 15:25
9M110588.D	BNA MDL(AQ)-2	01/07/22 15:48
9M110589.D	BNA MDL(S)-2	01/07/22 16:11
9M110590.D	SMB98421	01/07/22 16:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-07-22\
Data File : 9M110575.D
Acq On : 7 Jan 2022 9:12
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0106.M
Title : @GCMS_9,mg,625,8270
Last Update : Thu Jan 06 13:25:37 2022



Spectrum Information: Average of 10.060 to 10.066 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.4	24120	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.8	26104	PASS
70	69	0.00	2	0.3	86	PASS
127	198	40	60	50.8	28940	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56952	PASS
199	198	5	9	7.5	4261	PASS
275	198	10	30	27.4	15595	PASS
365	198	1	100	3.9	2227	PASS
441	443	0.01	100	74.3	5889	PASS
442	198	40	100	67.4	38368	PASS
443	442	17	23	20.7	7931	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9

Data File: 9M110636.D
Analysis Date: 01/11/22 08:03
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.054 to 10.060 min

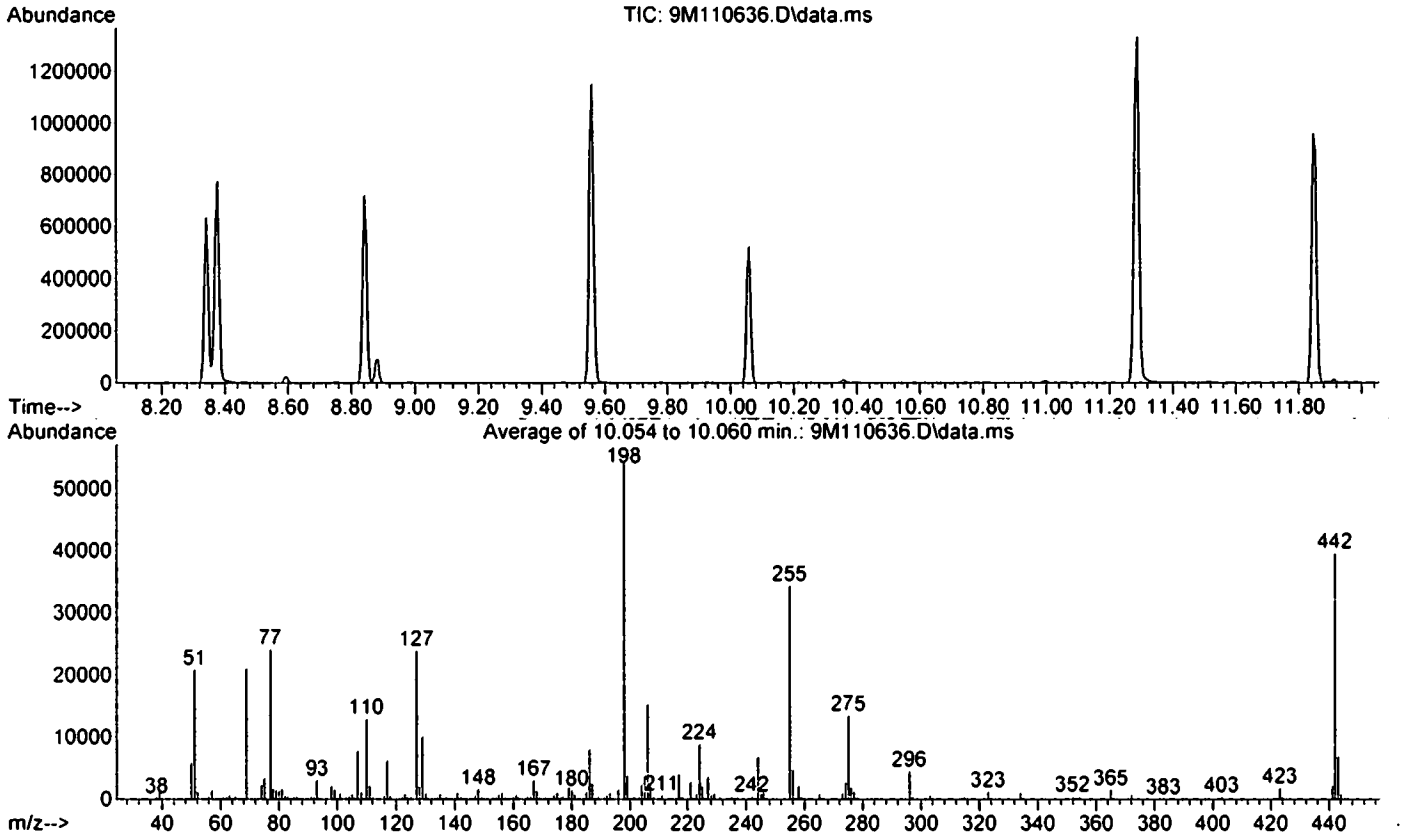
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	38.3	20872	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.7	21080	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	43.8	23880	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54496	PASS
199	198	5	9	7.0	3822	PASS
275	198	10	30	24.7	13453	PASS
365	198	1	100	2.9	1581	PASS
441	443	0.01	100	31.3	2179	PASS
442	198	40	100	72.4	39432	PASS
443	442	17	23	17.6	6953	PASS

Data File	Sample Number	Analysis Date:
9M110637.D	CAL BNA@50PPM	01/11/22 08:26
9M110638.D	SMB98442(MS)	01/11/22 08:48
9M110639.D	SMB98442	01/11/22 09:11
9M110640.D	AD28127-003	01/11/22 09:34
9M110641.D	AD28127-003(MS)	01/11/22 09:57
9M110642.D	AD28127-003(MSD	01/11/22 10:20
9M110643.D	AD28127-001	01/11/22 10:42
9M110644.D	OMB98438	01/11/22 13:14
9M110645.D	WMB98456(MS)	01/11/22 14:50
9M110646.D	WMB98456	01/11/22 15:12
9M110647.D	OMB98462	01/11/22 16:59
9M110648.D	OMB98462(MS)	01/11/22 17:21
9M110649.D	AD28211-001	01/11/22 17:44
9M110650.D	AD28211-002	01/11/22 18:07
9M110651.D	AD28211-008	01/11/22 18:30
9M110652.D	AD28211-009	01/11/22 18:52
9M110653.D	AD28211-012	01/11/22 19:15
9M110654.D	AD28211-006	01/11/22 19:38
9M110655.D	AD28211-007	01/11/22 20:00
9M110656.D	AD28211-010	01/11/22 20:23
9M110657.D	AD28211-011	01/11/22 20:46

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-11-22\
Data File : 9M110636.D
Acq On : 11 Jan 2022 8:03
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0107.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Jan 07 15:22:31 2022



Spectrum Information: Average of 10.054 to 10.060 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.3	20872	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.7	21080	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	43.8	23880	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54496	PASS
199	198	5	9	7.0	3822	PASS
275	198	10	30	24.7	13453	PASS
365	198	1	100	2.9	1581	PASS
441	443	0.01	100	31.3	2179	PASS
442	198	40	100	72.4	39432	PASS
443	442	17	23	17.6	6953	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M110658.D
Instrument: GCMS 9 **Analysis Date:** 01/12/22 08:24
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.054 to 10.060 min

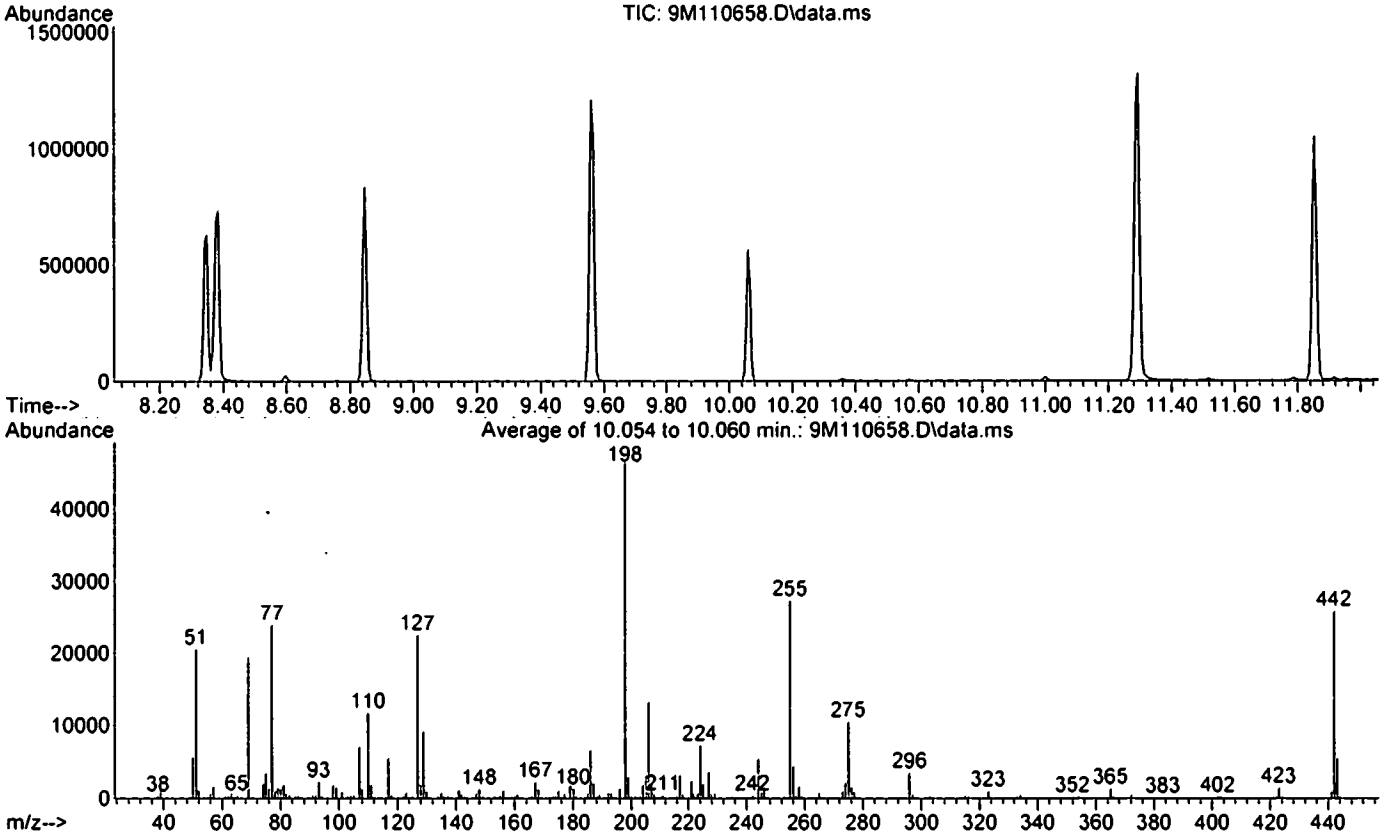
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	43.9	20601	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.6	19490	PASS
70	69	0.00	2	0.4	85	PASS
127	198	40	60	48.2	22580	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	46880	PASS
199	198	5	9	6.2	2906	PASS
275	198	10	30	22.3	10435	PASS
365	198	1	100	2.8	1320	PASS
441	443	0.01	100	15.8	865	PASS
442	198	40	100	55.1	25834	PASS
443	442	17	23	21.2	5477	PASS

Data File	Sample Number	Analysis Date:
9M110659.D	CAL BNA@50PPM	01/12/22 08:46
9M110660.D	SMB98463(MS)	01/12/22 09:13
9M110661.D	SMB98463	01/12/22 09:35
9M110662.D	AD28245-001	01/12/22 09:58
9M110663.D	AD28235-001	01/12/22 10:21
9M110664.D	AD28235-002	01/12/22 10:44
9M110665.D	AD28235-003	01/12/22 11:06
9M110666.D	AD28235-004	01/12/22 11:29
9M110667.D	AD28235-005	01/12/22 11:52
9M110668.D	AD28235-006	01/12/22 12:15
9M110669.D	AD28235-007	01/12/22 12:38
9M110670.D	AD28235-008	01/12/22 13:00
9M110671.D	SMB98463	01/12/22 13:23
9M110672.D	AD28170-004	01/12/22 13:46
9M110673.D	EF-SPLP V-363754	01/12/22 14:09
9M110674.D	AD28065-003(T)	01/12/22 14:32
9M110675.D	AD28065-003(T)(M	01/12/22 14:54
9M110676.D	AD28065-003(T)(M	01/12/22 15:17
9M110677.D	AD28065-004(T)	01/12/22 15:40
9M110678.D	AD28211-010	01/12/22 16:03
9M110679.D	AD28211-011	01/12/22 16:26
9M110680.D	AD28236-001	01/12/22 16:48
9M110681.D	AD28236-001(MS)	01/12/22 17:11
9M110682.D	AD28236-001(MSD	01/12/22 17:34
9M110683.D	WMB98469	01/12/22 17:57
9M110684.D	AD28193-001(3X)(	01/12/22 18:19

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-12-22\
Data File : 9M110658.D
Acq On : 12 Jan 2022 8:24
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0107.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Jan 07 15:22:31 2022



Spectrum Information: Average of 10.054 to 10.060 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.9	20601	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.6	19490	PASS
70	69	0.00	2	0.4	85	PASS
127	198	40	60	48.2	22580	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	46880	PASS
199	198	5	9	6.2	2906	PASS
275	198	10	30	22.3	10435	PASS
365	198	1	100	2.8	1320	PASS
441	443	0.01	100	15.8	865	PASS
442	198	40	100	55.1	25834	PASS
443	442	17	23	21.2	5477	PASS

2011002 0161

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M110586.D	CAL BNA@50PPM	01/07/22 15:02	2	9M110578.D	CAL BNA@2PPM	01/07/22 11:59
3	9M110579.D	CAL BNA@10PPM	01/07/22 12:22	4	9M110584.D	CAL BNA@20PPM	01/07/22 14:16
5	9M110583.D	CAL BNA@80PPM	01/07/22 13:54	6	9M110582.D	CAL BNA@120PPM	01/07/22 13:31
7	9M110581.D	CAL BNA@160PPM	01/07/22 13:08	8	9M110580.D	CAL BNA@196PPM	01/07/22 12:45
9	9M110585.D	CAL BNA@0.5PPM	01/07/22 14:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Qua	0.9543	0.8376	1.0149	1.0210	0.9319	0.9065	0.9304	0.9471	0.2379	0.865	2.70	0.999	0.999	28		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.3424	2.0950	2.0843	2.3741	2.3192	2.2846	2.3696	2.4170	----	2.29	3.15	0.999	1.00	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.6486	1.3429	1.5592	1.6867	1.6416	1.5948	1.6268	1.6700	----	1.60	3.08	1.00	1.00	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.4945	2.5703	2.5308	2.6400	2.5909	2.5349	2.5937	2.6006	----	2.57	4.67	1.00	1.00	1.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.2239	2.3882	2.3054	2.5587	2.2531	2.2011	2.1963	2.1572	----	2.29	5.49	1.00	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	4.2056	4.6262	4.2935	4.6115	4.1836	4.0215	4.1349	4.0520	6.0736	4.47	5.58	1.00	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9366	1.0152	0.9772	1.0328	0.9332	0.9180	0.9217	0.9188	----	0.957	5.63	1.00	1.00	4.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Qua	2.7605	3.2459	2.7049	2.9712	2.7578	2.5744	2.6765	2.5705	3.2432	2.83	5.64	0.999	0.999	9.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.2276	3.3151	3.2408	3.5525	3.2370	3.1827	3.1845	3.2392	----	3.27	5.54	1.00	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.6675	4.2492	3.6212	4.0613	3.6831	3.5799	3.5812	3.6059	----	3.76	5.55	1.00	1.00	6.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.7067	3.0811	2.6623	2.9032	2.6628	2.6226	2.6690	2.6396	----	2.74	5.68	1.00	1.00	5.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.9476	3.5363	3.1289	3.3294	2.9640	2.9080	2.8902	2.8380	----	3.07	5.73	1.00	1.00	8.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	3.0750	3.5655	3.1358	3.4041	3.0528	3.0150	3.1350	3.0226	----	3.18	5.82	0.999	0.999	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.4910	1.6463	1.5113	1.5101	1.4724	1.4168	1.4351	1.5013	----	1.50	5.88	0.999	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.3895	1.5010	1.4177	1.4555	1.3784	1.3266	1.3168	1.4078	----	1.40	6.01	0.998	0.998	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8630	0.8602	0.8094	0.8618	0.8544	0.8270	0.8315	0.8826	----	0.849	5.98	0.999	0.999	2.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.8117	1.9447	1.9408	1.8405	1.7663	1.7259	1.7326	1.8307	----	1.82	6.09	0.998	0.999	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1600	1.1326	1.1679	1.2028	1.1522	1.1164	1.1054	1.1800	1.2058	1.16	6.06	0.998	0.999	3.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7350	1.8891	1.7855	1.7864	1.7038	1.6384	1.6160	1.6962	----	1.73	6.19	0.999	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5695	0.5349	0.5620	0.5786	0.5548	0.5481	0.5475	0.5735	----	0.559	6.28	0.999	0.999	2.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Qua	0.9571	0.9625	0.9732	0.9702	0.9358	0.9081	0.8881	0.9516	1.2851	0.981	6.19	0.998	0.998	12	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2048	1.2870	1.2094	1.2213	1.1673	1.1241	1.1047	1.1653	1.3520	1.20	6.18	0.999	0.999	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1532	0.1187	0.1335	0.1522	0.1574	0.1546	0.1557	0.1578	----	0.148	6.31	1.00	1.00	9.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3789	0.4278	0.3964	0.3944	0.3911	0.3728	0.3761	0.3966	----	0.392	6.33	0.998	0.999	4.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6821	0.7346	0.6908	0.7030	0.6746	0.6625	0.6642	0.6916	----	0.688	6.51	0.999	0.999	3.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1727	0.1594	0.1640	0.1823	0.1768	0.1743	0.1758	0.1814	----	0.173	6.58	1.00	1.00	4.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3543	0.3593	0.3566	0.3697	0.3515	0.3434	0.3442	0.3592	0.3868	0.358	6.60	0.999	0.999	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2721	----	0.1704	0.2502	0.2839	0.2873	0.2915	0.3096	----	0.266	6.66	0.998	0.999	17		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3878	0.4334	0.3965	0.4150	0.3839	0.3758	0.3750	0.3771	----	0.393	6.68	1.00	1.00	5.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2975	0.2918	0.2846	0.3115	0.3059	0.2950	0.2932	0.3005	0.3274	0.301	6.75	1.00	1.00	4.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.3313	0.3619	0.3418	0.3547	0.3370	0.3224	0.3300	0.3384	----	0.340	6.82	0.999	0.999	3.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	0.9797	1.0530	1.0299	1.0570	0.9770	0.9134	0.9566	0.9781	1.3073	1.03	6.89	0.999	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Qua	0.3752	0.3798	0.3966	0.4128	0.3641	0.3487	0.3371	0.3354	0.5102	0.384	6.92	0.999	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2177	0.2412	0.2269	0.2265	0.2206	0.2140	0.2143	0.2208	----	0.223	6.98	0.999	1.00	4.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0975	0.0737	0.0919	0.1004	0.0990	0.0971	0.0991	0.1033	----	0.0953	7.20	0.999	1.00	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2952	0.2807	0.2891	0.3037	0.2881	0.2870	0.2906	0.3005	----	0.292	7.28	0.999	1.00	2.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6359	0.6977	0.6474	0.6772	0.6330	0.6172	0.6161	0.6347	----	0.645	7.43	0.999	1.00	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6206	0.6192	0.6486	0.6495	0.6137	0.5921	0.5880	0.6065	----	0.617	7.51	0.999	0.999	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6276	0.6585	0.6480	0.6626	0.6231	0.6043	0.6022	0.6196	----	0.631	7.51	0.999	1.00	3.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.8186	0.8742	0.8474	0.8746	0.8037	0.7862	0.7839	0.8062	----	0.824	7.80	0.999	1.00	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.6427	0.7382	0.6758	0.6711	0.6295	0.6291	0.6226	0.6507	----	0.658	7.56	0.999	0.999	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.263

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M110586.D	CAL BNA@50PPM	01/07/22 15:02	2	9M110578.D	CAL BNA@2PPM	01/07/22 11:59
3	9M110579.D	CAL BNA@10PPM	01/07/22 12:22	4	9M110584.D	CAL BNA@20PPM	01/07/22 14:16
5	9M110583.D	CAL BNA@80PPM	01/07/22 13:54	6	9M110582.D	CAL BNA@120PPM	01/07/22 13:31
7	9M110581.D	CAL BNA@160PPM	01/07/22 13:08	8	9M110580.D	CAL BNA@196PPM	01/07/22 12:45
9	9M110585.D	CAL BNA@0.5PPM	01/07/22 14:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.4219	0.4243	0.4211	0.4353	0.4342	0.4218	0.4301	0.4420	----	0.429	7.55	0.999	1.00	1.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4219	0.4220	0.4126	0.4339	0.4292	0.4165	0.4216	0.4499	----	0.426	7.65	0.998	0.999	2.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4433	0.3994	0.4175	0.4472	0.4400	0.4212	0.4417	0.4560	----	0.433	7.68	0.998	0.999	4.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4174	1.4222	1.4435	1.4762	1.3842	1.3607	1.3973	1.4559	----	1.42	7.72	0.999	0.999	2.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1667	1.2404	1.1584	1.2379	1.1508	1.1376	1.1417	1.1656	----	1.17	7.82	1.00	1.00	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9159	0.9766	0.8957	0.9422	0.8850	0.8622	0.8535	0.8791	----	0.901	8.11	0.999	1.00	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9159	0.9766	0.8957	0.9422	0.8850	0.8622	0.8535	0.8791	----	0.901	8.11	0.999	1.00	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8194	0.8718	0.8127	0.8476	0.8028	0.7888	0.7909	0.8051	----	0.817	7.89	1.00	1.00	3.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4616	0.3852	0.4476	0.4703	0.4596	0.4496	0.4540	0.4806	----	0.451	7.90	0.998	0.999	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4442	0.4583	0.4224	0.4725	0.4390	0.4269	0.4228	0.4309	----	0.440	8.09	1.00	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8189	1.9413	1.7886	1.9250	1.7833	1.7400	1.7526	1.8052	----	1.82	8.19	1.00	1.00	4.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3780	1.3329	1.3604	1.4067	1.3398	1.3237	1.3153	1.3727	----	1.35	8.05	0.999	0.999	2.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3099	0.2334	0.2811	0.3221	0.2947	0.2909	0.2911	0.2963	----	0.290	8.11	1.00	1.00	9.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1322	1.1838	1.1458	1.1902	1.1063	1.0937	1.0859	1.1202	----	1.13	8.34	0.999	1.00	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3096	0.2427	0.3051	0.3302	0.3116	0.3044	0.2991	0.2984	----	0.300	8.25	1.00	1.00	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1720	----	0.1338	0.1609	0.1886	0.1885	0.1918	0.1985	----	0.176	8.34	0.999	1.00	13	0.20	a 50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7048	1.6930	1.6715	1.7460	1.6354	1.6114	1.6143	1.6816	1.9881	1.71	8.50	0.999	0.999	6.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4041	0.3405	0.3722	0.4131	0.4058	0.4039	0.4092	0.4169	----	0.396	8.47	1.00	1.00	6.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2948	0.1849	0.2829	0.3047	0.3133	0.3045	0.3145	0.3238	----	0.290	8.38	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3838	0.3189	0.3565	0.4000	0.3747	0.3778	0.3817	0.3936	----	0.373	8.60	0.999	1.00	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3663	1.3638	1.3836	1.4321	1.3228	1.3068	1.3136	1.3824	----	1.36	8.82	0.998	0.999	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7280	0.7916	0.7536	0.7797	0.7136	0.7076	0.7159	0.7442	----	0.742	8.81	0.999	0.999	4.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3370	1.3618	1.3115	1.3892	1.2791	1.2952	1.2862	1.3670	----	1.33	8.68	0.998	0.999	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3361	0.2782	0.3271	0.3314	0.3356	0.3284	0.3260	0.3365	----	0.325	8.82	0.999	1.00	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4245	0.4249	0.4172	0.4235	0.4072	0.4110	0.4082	0.4214	----	0.417	9.45	0.999	1.00	1.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1256	----	0.0935	0.1144	0.1278	0.1258	0.1322	0.1377	----	0.122	8.85	0.998	0.999	12	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5964	0.5606	0.5870	0.6241	0.5895	0.5716	0.5788	0.6050	----	0.589	8.92	0.999	0.999	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1040	0.1030	0.0974	0.1092	0.1065	0.1028	0.1038	0.1114	----	0.105	9.05	0.997	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7667	0.6849	0.7765	0.7932	0.6937	0.6715	0.7432	0.7641	----	0.737	8.97	0.997	0.997	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2189	0.2106	0.2133	0.2292	0.2232	0.2180	0.2173	0.2268	----	0.220	9.30	0.999	0.999	2.9	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2200	0.2443	0.2254	0.2336	0.2250	0.2198	0.2239	0.2317	----	0.228	9.37	0.999	1.00	3.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4203	0.4298	0.4141	0.4311	0.4219	0.4047	0.4052	0.4190	----	0.418	9.64	0.999	0.999	2.4	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1624	----	0.1204	0.1570	0.1658	0.1618	0.1710	0.1748	----	0.159	9.56	0.999	0.999	11	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0285	1.0740	1.0380	1.0830	1.0276	0.9866	0.9999	1.0411	----	1.03	9.80	0.999	0.999	3.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0590	1.0516	1.0457	1.0813	1.0554	1.0112	1.0202	1.0629	----	1.05	9.86	0.999	0.999	2.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9380	0.9566	0.9380	0.9798	0.9315	0.9115	0.9187	0.9363	----	0.939	10.02	1.00	1.00	2.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1068	1.0551	1.0682	1.1305	1.1183	1.0993	1.1051	1.1576	1.1865	1.11	10.41	0.999	1.00	3.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2143	1.1659	1.1972	1.2321	1.2275	1.1995	1.2101	1.2667	----	1.21	11.14	0.999	0.999	2.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2393	1.3103	1.2115	1.3046	1.2587	1.2043	1.2496	1.3143	----	1.26	11.40	0.998	0.999	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.6975	0.5849	0.6406	0.7268	0.6947	0.6288	0.6213	0.6148	----	0.651	11.29	0.997	0.999	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6774	0.7098	0.6696	0.6847	0.6893	0.6547	0.6856	0.7335	----	0.688	11.58	0.996	0.998	3.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 5.263

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M110586.D	CAL BNA@50PPM	01/07/22 15:02	2	9M110578.D	CAL BNA@2PPM	01/07/22 11:59
3	9M110579.D	CAL BNA@10PPM	01/07/22 12:22	4	9M110584.D	CAL BNA@20PPM	01/07/22 14:16
5	9M110583.D	CAL BNA@80PPM	01/07/22 13:54	6	9M110582.D	CAL BNA@120PPM	01/07/22 13:31
7	9M110581.D	CAL BNA@160PPM	01/07/22 13:08	8	9M110580.D	CAL BNA@196PPM	01/07/22 12:45
9	9M110585.D	CAL BNA@0.5PPM	01/07/22 14:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2680	0.2833	0.2761	0.2755	0.2790	0.2638	0.2766	0.2928	----	0.277	11.52	0.997	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4606	0.4385	0.4362	0.4824	0.4770	0.4495	0.4639	0.4817	----	0.461	11.92	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.4985	0.4886	0.4900	0.5085	0.5111	0.4943	0.5075	0.5328	----	0.504	12.17	0.998	0.999	2.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4208	0.3688	0.3880	0.4298	0.4267	0.4106	0.4254	0.4391	----	0.414	12.28	0.999	0.999	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4705	0.4637	0.4387	0.4906	0.4792	0.4524	0.4504	0.4638	----	0.464	12.79	0.999	0.999	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2102	1.3333	1.1751	1.2330	1.2213	1.1928	1.2231	1.2786	----	1.23	12.82	0.998	0.999	4.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1090	1.1890	1.0514	1.1563	1.0840	1.0424	1.0694	1.1218	----	1.10	12.87	0.998	0.999	4.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.6850	0.6311	0.6730	0.6962	0.6850	0.6484	0.6887	0.7226	----	0.679	12.87	0.997	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.0870	0.9724	1.0436	1.0916	1.0819	1.0656	1.1008	1.1350	----	1.07	13.62	0.999	1.00	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1145	1.0106	0.9862	1.0643	1.0612	1.0828	1.0777	1.1674	----	1.07	14.04	0.997	0.998	5.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0551	1.1865	1.0772	1.1655	1.0621	1.0038	1.0803	1.0510	----	1.09	14.07	0.999	0.999	5.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0566	1.0411	1.0488	1.1622	1.0315	1.0064	1.0380	1.0777	----	1.06	14.40	0.998	0.999	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.0588	0.9797	0.9754	1.0417	1.0479	1.0270	1.0725	1.1044	----	1.04	15.81	0.999	1.00	4.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.8928	0.8683	0.8443	0.8915	0.8960	0.8915	0.9224	0.9491	----	0.895	15.83	0.999	1.00	3.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9250	0.9279	0.8690	0.9117	0.8894	0.8795	0.9114	0.9409	----	0.907	16.19	0.999	1.00	2.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 5.263
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110637.D Instrument: GCMS 9

Cont Calibration Date/Time 1/11/2022 8:26:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.64	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.68	48.58	50	**		0.865	0.915	2.84	
Pyridine	1	0		3.13	44.77	50	**		2.286	2.047	10.47	
N-Nitrosodimethylamine	1	0		3.07	47.52	50	**		1.596	1.517	4.96	
2-Fluorophenol	1	0	S	4.66	53.15	50	**		2.570	2.732	6.31	
Benzaldehyde	1	0		5.48	44.69	50	20	0.01	2.286	2.043	10.62	
Aniline	1	0		5.58	46.04	50	**		4.467	3.849	7.93	
Pentachloroethane	1	0		5.62	44.23	50	**	0.05	0.957	0.846	11.54	
bis(2-Chloroethyl)ether	1	0		5.64	45.75	50	20	0.7	2.834	2.516	8.50	
Phenol-d5	1	0	S	5.54	54.10	50	**		3.272	3.541	8.20	
Phenol	1	0		5.55	44.85	50	20	0.8	3.756	3.370	10.29	
2-Chlorophenol	1	0		5.68	45.09	50	20	0.8	2.743	2.474	9.81	
N-Decane	1	0		5.72	45.85	50	**	0.05	3.068	2.813	8.31	
1,3-Dichlorobenzene	1	0		5.81	45.15	50	**		3.176	2.868	9.71	
1,4-Dichlorobenzene-d4	1	0	I	5.86	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.88	49.14	50	20		1.498	1.472	1.72	
1,2-Dichlorobenzene	1	0		6.00	49.13	50	**		1.399	1.375	1.73	
Benzyl alcohol	1	0		5.97	51.63	50	**		0.849	0.876	3.26	
bis(2-chloroisopropyl)ether	1	0		6.08	51.72	50	20	0.01	1.824	1.887	3.44	
2-Methylphenol	1	0		6.06	50.90	50	20	0.7	1.158	1.179	1.79	
Acetophenone	1	0		6.19	50.36	50	20	0.01	1.731	1.744	0.72	
Hexachloroethane	1	0		6.28	50.74	50	20	0.3	0.559	0.567	1.47	
N-Nitroso-di-n-propylamine	1	0		6.19	52.94	50	20	0.5	0.981	0.958	5.87	
3&4-Methylphenol	1	0		6.18	50.33	50	20		1.204	1.212	0.66	
Naphthalene-d8	1	0	I	6.87	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.31	31.02	25	**		0.148	0.184	24.09	
Nitrobenzene	1	0		6.32	49.53	50	20	0.2	0.392	0.388	0.95	
Isophorone	1	0		6.51	50.30	50	20	0.4	0.688	0.692	0.60	
2-Nitrophenol	1	0		6.57	52.86	50	20	0.1	0.173	0.183	5.73	
2,4-Dimethylphenol	1	0		6.60	49.66	50	20	0.2	0.358	0.356	0.68	
Benzoic Acid	1	0		6.65	40.36	50	**		0.266	0.214	19.29	
bis(2-Chloroethoxy)methane	1	0		6.67	50.31	50	20	0.3	0.393	0.396	0.62	
2,4-Dichlorophenol	1	0		6.75	50.50	50	20	0.2	0.301	0.304	1.00	
1,2,4-Trichlorobenzene	1	0		6.82	50.39	50	**		0.340	0.342	0.78	
Naphthalene	1	0		6.89	53.22	50	20	0.7	1.028	1.001	6.44	
4-Chloroaniline	1	0		6.92	51.29	50	20	0.01	0.384	0.378	2.59	
Hexachlorobutadiene	1	0		6.98	49.23	50	20	0.01	0.223	0.219	1.55	
Caprolactam	1	0		7.20	54.30	50	20	0.01	0.095	0.103	8.60	
4-Chloro-3-methylphenol	1	0		7.28	52.36	50	20	0.2	0.292	0.306	4.71	
2-Methylnaphthalene	1	0		7.42	50.94	50	**	0.4	0.645	0.657	1.87	
1-Methylnaphthalene	1	0		7.51	50.31	50	**	0.4	0.617	0.621	0.63	
Methylnaphthalenes	1	0		7.42	101.31	50	**			1.278	102.62	
1,1'-Biphenyl	1	0		7.80	50.84	50	20	0.01	0.824	0.838	1.68	
Acenaphthene-d10	1	0	I	8.31	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.56	49.31	50	20	0.01	0.658	0.648	1.38	
Hexachlorocyclopentadiene	1	0		7.55	41.10	50	20	0.05	0.429	0.353	17.80	
2,4,6-Trichlorophenol	1	0		7.64	48.17	50	20	0.2	0.426	0.410	3.65	
2,4,5-Trichlorophenol	1	0		7.67	51.08	50	20	0.2	0.433	0.443	2.17	
2-Fluorobiphenyl	1	0	S	7.71	28.88	25	**		1.420	1.640	15.50	
2-Chloronaphthalene	1	0		7.82	48.70	50	20	0.8	1.175	1.144	2.60	
1,4-Dimethylnaphthalene	1	0		8.11	50.64	50	**		0.901	0.913	1.28	
Dimethylnaphthalenes	1	0		8.11	50.64	50	20			0.913	1.28	

S-Surrogate Compound I-Internal Standard Compound Page 1 of 3

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110637.D Instrument: GCMS 9

Cont Calibration Date/Time 1/11/2022 8:26:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.88	49.76	50	**		0.817	0.814	0.48	
2-Nitroaniline	1	0		7.90	51.84	50	20	0.01	0.451	0.468	3.67	
Coumarin	1	0		8.08	50.91		**		0.440			
Acenaphthylene	1	0		8.18	48.96	50	20	0.9	1.819	1.782	2.08	
Dimethylphthalate	1	0		8.05	50.49	50	20	0.01	1.354	1.367	0.98	
2,6-Dinitrotoluene	1	0		8.10	52.37	50	20	0.2	0.290	0.304	4.74	
Acenaphthene	1	0		8.34	49.00	50	20	0.9	1.132	1.110	1.99	
3-Nitroaniline	1	0		8.25	52.69	50	20	0.01	0.300	0.316	5.38	
2,4-Dinitrophenol	1	0		8.34	49.66	50	20	0.2	0.176	0.173	0.68	
Dibenzofuran	1	0		8.49	49.55	50	20	0.8	1.705	1.690	0.89	
2,4-Dinitrotoluene	1	0		8.46	51.90	50	20	0.2	0.396	0.411	3.80	
4-Nitrophenol	1	0		8.37	50.81	50	20	0.01	0.290	0.303	1.63	
2,3,4,6-Tetrachlorophenol	1	0		8.60	50.00	50	20	0.01	0.373	0.373	0.01	
Fluorene	1	0		8.81	49.99	50	20	0.9	1.359	1.359	0.03	
4-Chlorophenyl-phenylether	1	0		8.81	49.20	50	20	0.4	0.742	0.730	1.59	
Diethylphthalate	1	0		8.68	49.65	50	20	0.01	1.328	1.319	0.70	
4-Nitroaniline	1	0		8.82	51.12	50	20	0.01	0.325	0.332	2.24	
Atrazine	1	0		9.45	49.71	50	20	0.01	0.417	0.415	0.58	
Phenanthrene-d10	1	0	I	9.77	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.84	52.10	50	20	0.01	0.122	0.126	4.20	
n-Nitrosodiphenylamine	1	0		8.91	51.44	50	20	0.01	0.589	0.606	2.87	
2,4,6-Tribromophenol	1	0	S	9.05	61.11	50	**		0.105	0.128	22.21	
1,2-Diphenylhydrazine	1	0		8.96	47.91	50	**		0.737	0.706	4.19	
4-Bromophenyl-phenylether	1	0		9.30	50.72	50	20	0.1	0.220	0.223	1.44	
Hexachlorobenzene	1	0		9.36	49.52	50	20	0.1	0.228	0.226	0.95	
N-Octadecane	1	0		9.63	53.59	50	**	0.05	0.418	0.448	7.18	
Pentachlorophenol	1	0		9.56	51.55	50	20	0.05	0.159	0.164	3.10	
Phenanthrene	1	0		9.80	50.92	50	20	0.7	1.035	1.054	1.83	
Anthracene	1	0		9.85	51.00	50	20	0.7	1.048	1.069	1.99	
Carbazole	1	0		10.02	50.52	50	20	0.01	0.939	0.949	1.04	
Di-n-butylphthalate	1	0		10.40	52.18	50	20	0.01	1.114	1.146	4.36	
Fluoranthene	1	0		11.13	50.73	50	20	0.6	1.214	1.232	1.45	
Chrysene-d12	1	0	I	12.83	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.40	51.16	50	20	0.6	1.262	1.291	2.31	
Benzidine	1	0		11.28	52.95	50	**		0.651	0.690	5.90	
Terphenyl-d14	1	0	S	11.58	30.21	25	**		0.688	0.831	20.82	
4,4'-DDE	1	0		11.51	49.79		**		0.277			
4,4'-DDD	1	0		11.91	51.66		**		0.461			
Butylbenzylphthalate	1	0		12.17	51.47	50	20	0.01	0.504	0.519	2.95	
4,4'-DDT	1	0		12.27	51.71		**		0.414			
3,3'-Dichlorobenzidine	1	0		12.79	55.67	50	20	0.01	0.464	0.515	11.33	
Benzo[a]anthracene	1	0		12.82	50.76	50	20	0.8	1.233	1.252	1.52	
Chrysene	1	0		12.87	50.86	50	20	0.7	1.103	1.122	1.71	
bis(2-Ethylhexyl)phthalate	1	0		12.87	51.54	50	20	0.01	0.679	0.700	3.08	
Perylene-d12	1	0	I	14.46	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.61	54.45	50	20	0.01	1.072	1.145	8.91	
Benzo[b]fluoranthene	1	0		14.04	50.51	50	20	0.7	1.071	1.082	1.03	
Benzo[k]fluoranthene	1	0		14.07	50.51	50	20	0.7	1.085	1.096	1.02	
Benzo[a]pyrene	1	0		14.39	50.20	50	20	0.7	1.058	1.062	0.40	
Indeno[1,2,3-cd]pyrene	1	0		15.80	50.51	50	20	0.5	1.038	1.049	1.01	
Dibenzo[a,h]anthracene	1	0		15.82	50.86	50	20	0.4	0.895	0.910	1.72	
Benzo[g,h,i]perylene	1	0		16.18	49.99	50	20	0.5	0.907	0.919	0.02	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110637.D **Instrument:** GCMS 9

Cont Calibration Date/Time 1/11/2022 8:26:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.901	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.631	0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110659.D **Instrument:** GCMS 9

Cont Calibration Date/Time 1/12/2022 8:46:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.64	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.68	52.02	50	**		0.865	0.980	4.04	
Pyridine	1	0		3.14	49.68	50	**		2.286	2.271	0.65	
N-Nitrosodimethylamine	1	0		3.07	53.83	50	**		1.596	1.719	7.66	
2-Fluorophenol	1	0	S	4.66	51.38	50	**		2.570	2.640	2.75	
Benzaldehyde	1	0		5.49	52.47	50	20	0.01	2.286	2.398	4.94	
Aniline	1	0		5.58	53.96	50	**		4.467	4.504	7.92	
Pentachloroethane	1	0		5.62	50.00	50	**	0.05	0.957	0.957	0.00	
bis(2-Chloroethyl)ether	1	0		5.64	50.87	50	20	0.7	2.834	2.793	1.75	
Phenol-d5	1	0	S	5.54	52.66	50	**		3.272	3.446	5.31	
Phenol	1	0		5.55	52.67	50	20	0.8	3.756	3.957	5.35	
2-Chlorophenol	1	0		5.68	51.65	50	20	0.8	2.743	2.834	3.30	
N-Decane	1	0		5.73	52.05	50	**	0.05	3.068	3.194	4.11	
1,3-Dichlorobenzene	1	0		5.81	50.80	50	**		3.176	3.226	1.60	
1,4-Dichlorobenzene-d4	1	0	I	5.87	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.88	51.03	50	20		1.498	1.529	2.07	
1,2-Dichlorobenzene	1	0		6.00	51.28	50	**		1.399	1.435	2.57	
Benzyl alcohol	1	0		5.97	52.48	50	**		0.849	0.891	4.97	
bis(2-chloroisopropyl)ether	1	0		6.09	53.73	50	20	0.01	1.824	1.960	7.47	
2-Methylphenol	1	0		6.06	53.28	50	20	0.7	1.158	1.234	6.55	
Acetophenone	1	0		6.19	51.78	50	20	0.01	1.731	1.793	3.57	
Hexachloroethane	1	0		6.28	52.32	50	20	0.3	0.559	0.585	4.64	
N-Nitroso-di-n-propylamine	1	0		6.19	55.95	50	20	0.5	0.981	1.014	11.91	
3&4-Methylphenol	1	0		6.18	51.67	50	20		1.204	1.244	3.35	
Naphthalene-d8	1	0	I	6.87	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.31	25.67	25	**		0.148	0.152	2.68	
Nitrobenzene	1	0		6.32	49.74	50	20	0.2	0.392	0.390	0.51	
Isophorone	1	0		6.51	50.64	50	20	0.4	0.688	0.697	1.28	
2-Nitrophenol	1	0		6.58	53.05	50	20	0.1	0.173	0.184	6.11	
2,4-Dimethylphenol	1	0		6.60	50.03	50	20	0.2	0.358	0.359	0.07	
Benzoic Acid	1	0		6.65	40.83	50	**		0.266	0.217	18.34	
bis(2-Chloroethoxy)methane	1	0		6.68	50.38	50	20	0.3	0.393	0.396	0.76	
2,4-Dichlorophenol	1	0		6.75	49.81	50	20	0.2	0.301	0.300	0.39	
1,2,4-Trichlorobenzene	1	0		6.82	50.49	50	**		0.340	0.343	0.98	
Naphthalene	1	0		6.89	53.09	50	20	0.7	1.028	0.998	6.18	
4-Chloroaniline	1	0		6.92	51.81	50	20	0.01	0.384	0.382	3.62	
Hexachlorobutadiene	1	0		6.98	49.84	50	20	0.01	0.223	0.222	0.32	
Caprolactam	1	0		7.20	53.51	50	20	0.01	0.095	0.102	7.02	
4-Chloro-3-methylphenol	1	0		7.28	52.22	50	20	0.2	0.292	0.305	4.45	
2-Methylnaphthalene	1	0		7.42	50.34	50	**	0.4	0.645	0.649	0.68	
1-Methylnaphthalene	1	0		7.51	51.41	50	**	0.4	0.617	0.635	2.82	
Methylnaphthalenes	1	0		7.51	101.53	50	**			1.281	103.07	
1,1'-Biphenyl	1	0		7.80	50.41	50	20	0.01	0.824	0.831	0.83	
Acenaphthene-d10	1	0	I	8.31	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.56	48.42	50	20	0.01	0.658	0.637	3.15	
Hexachlorocyclopentadiene	1	0		7.55	48.49	50	20	0.05	0.429	0.416	3.01	
2,4,6-Trichlorophenol	1	0		7.65	50.52	50	20	0.2	0.426	0.430	1.05	
2,4,5-Trichlorophenol	1	0		7.68	51.44	50	20	0.2	0.433	0.446	2.87	
2-Fluorobiphenyl	1	0	S	7.71	24.61	25	**		1.420	1.398	1.55	
2-Chloronaphthalene	1	0		7.82	49.06	50	20	0.8	1.175	1.153	1.89	
1,4-Dimethylnaphthalene	1	0		8.11	48.92	50	**		0.901	0.882	2.17	
Dimethylnaphthalenes	1	0		8.11	48.92	50	20			0.882	2.17	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110659.D Instrument: GCMS 9

Cont Calibration Date/Time 1/12/2022 8:46:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.89	50.13	50	**		0.817	0.820	0.25	
2-Nitroaniline	1	0		7.90	52.32	50	20	0.01	0.451	0.472	4.64	
Coumarin	1	0		8.09	50.49		**		0.440			
Acenaphthylene	1	0		8.18	50.29	50	20	0.9	1.819	1.830	0.59	
Dimethylphthalate	1	0		8.05	50.82	50	20	0.01	1.354	1.376	1.64	
2,6-Dinitrotoluene	1	0		8.11	53.00	50	20	0.2	0.290	0.307	5.99	
Acenaphthene	1	0		8.34	50.80	50	20	0.9	1.132	1.150	1.60	
3-Nitroaniline	1	0		8.25	54.91	50	20	0.01	0.300	0.330	9.82	
2,4-Dinitrophenol	1	0		8.34	52.66	50	20	0.2	0.176	0.184	5.33	
Dibenzofuran	1	0		8.50	49.73	50	20	0.8	1.705	1.696	0.55	
2,4-Dinitrotoluene	1	0		8.47	52.60	50	20	0.2	0.396	0.416	5.21	
4-Nitrophenol	1	0		8.38	53.31	50	20	0.01	0.290	0.318	6.61	
2,3,4,6-Tetrachlorophenol	1	0		8.60	51.19	50	20	0.01	0.373	0.382	2.38	
Fluorene	1	0		8.82	49.98	50	20	0.9	1.359	1.359	0.03	
4-Chlorophenyl-phenylether	1	0		8.81	49.97	50	20	0.4	0.742	0.741	0.06	
Diethylphthalate	1	0		8.68	50.10	50	20	0.01	1.328	1.331	0.20	
4-Nitroaniline	1	0		8.82	51.82	50	20	0.01	0.325	0.337	3.64	
Atrazine	1	0		9.45	49.89	50	20	0.01	0.417	0.416	0.23	
Phenanthrene-d10	1	0	I	9.78	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.85	51.24	50	20	0.01	0.122	0.124	2.48	
n-Nitrosodiphenylamine	1	0		8.92	49.09	50	20	0.01	0.589	0.578	1.82	
2,4,6-Tribromophenol	1	0	S	9.05	48.87	50	**		0.105	0.102	2.26	
1,2-Diphenylhydrazine	1	0		8.96	51.33	50	**		0.737	0.756	2.67	
4-Bromophenyl-phenylether	1	0		9.30	48.38	50	20	0.1	0.220	0.213	3.25	
Hexachlorobenzene	1	0		9.37	47.36	50	20	0.1	0.228	0.216	5.28	
N-Octadecane	1	0		9.64	49.52	50	**	0.05	0.418	0.414	0.97	
Pentachlorophenol	1	0		9.56	49.76	50	20	0.05	0.159	0.158	0.47	
Phenanthrene	1	0		9.80	48.51	50	20	0.7	1.035	1.004	2.97	
Anthracene	1	0		9.85	49.17	50	20	0.7	1.048	1.031	1.67	
Carbazole	1	0		10.02	48.94	50	20	0.01	0.939	0.919	2.13	
Di-n-butylphthalate	1	0		10.41	50.32	50	20	0.01	1.114	1.104	0.63	
Fluoranthene	1	0		11.14	48.08	50	20	0.6	1.214	1.168	3.84	
Chrysene-d12	1	0	I	12.84	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.40	49.34	50	20	0.6	1.262	1.245	1.32	
Benzidine	1	0		11.28	49.72	50	**		0.651	0.648	0.57	
Terphenyl-d14	1	0	S	11.58	24.67	25	**		0.688	0.679	1.31	
4,4'-DDE	1	0		11.52	48.37		**		0.277			
4,4'-DDD	1	0		11.92	51.13		**		0.461			
Butylbenzylphthalate	1	0		12.17	50.93	50	20	0.01	0.504	0.513	1.85	
4,4'-DDT	1	0		12.28	50.85		**		0.414			
3,3'-Dichlorobenzidine	1	0		12.79	51.77	50	20	0.01	0.464	0.479	3.54	
Benzo[a]anthracene	1	0		12.82	49.18	50	20	0.8	1.233	1.213	1.64	
Chrysene	1	0		12.87	48.76	50	20	0.7	1.103	1.076	2.49	
bis(2-Ethylhexyl)phthalate	1	0		12.87	50.98	50	20	0.01	0.679	0.692	1.96	
Perylene-d12	1	0	I	14.46	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.62	53.39	50	20	0.01	1.072	1.122	6.77	
Benzo[b]fluoranthene	1	0		14.04	51.42	50	20	0.7	1.071	1.101	2.84	
Benzo[k]fluoranthene	1	0		14.07	45.06	50	20	0.7	1.085	0.978	9.87	
Benzo[a]pyrene	1	0		14.40	47.80	50	20	0.7	1.058	1.011	4.41	
Indeno[1,2,3-cd]pyrene	1	0		15.81	47.43	50	20	0.5	1.038	0.985	5.14	
Dibenzo[a,h]anthracene	1	0		15.83	49.15	50	20	0.4	0.895	0.879	1.69	
Benzo[g,h,i]perylene	1	0		16.19	47.12	50	20	0.5	0.907	0.866	5.75	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110659.D **Instrument:** GCMS 9

Cont Calibration Date/Time 1/12/2022 8:46:00 A **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.631	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.901	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

2011002 0170

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110586.D Method: EPA 8270E

Analysis Date/Time: 01/07/22 15:02

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	22065	2.65	46606	5.87	178223	6.87	98748	8.31	196498	9.78	193168	12.84	208394	14.47
Eval File Area Limit:	11032-44130		23303-93212		89112-356446		49374-197496		98249-392996		96584-386336		104197-416788	
Eval File Rt Limit:	2.15-3.15		5.37-6.37		6.37-7.37		7.81-8.81		9.28-10.28		12.34-13.34		13.97-14.97	

Data File	Sample#													
9M110576.D	BNA@50PPM	19387	2.65	42545	5.87	164790	6.87	88498	8.31	181749	9.78	163701	12.84	168556	14.47
9M110578.D	CAL BNA@2PPM	21966	2.65	50659	5.87	189685	6.87	109994	8.31	222430	9.78	215131	12.84	228166	14.47
9M110579.D	CAL BNA@10PPM	18653	2.65	40421	5.87	152444	6.87	87714	8.31	173380	9.78	173035	12.83	186885	14.46
9M110580.D	CAL BNA@196PPM	21778	2.65	44470	5.87	168734	6.88	93519	8.31	184579	9.78	174989	12.84	194848	14.47
9M110581.D	CAL BNA@160PPM	21508	2.67	46971	5.87	173839	6.88	96395	8.31	190514	9.78	182802	12.84	200228	14.47
9M110582.D	CAL BNA@120PPM	21621	2.65	46899	5.87	175599	6.87	97484	8.31	192544	9.78	189957	12.84	206573	14.47
9M110583.D	CAL BNA@80PPM	22497	2.66	48749	5.87	182790	6.87	102856	8.31	199539	9.78	194635	12.84	215735	14.47
9M110584.D	CAL BNA@20PPM	20739	2.65	47737	5.87	175964	6.87	100283	8.31	200459	9.78	197084	12.83	214435	14.46
9M110585.D	CAL BNA@0.5PPM	22866	2.65	51418	5.87	199124	6.87	116331	8.31	231193	9.78	232944	12.83	248539	14.46
9M110586.D	CAL BNA@50PPM	22065	2.65	46606	5.87	178223	6.87	98748	8.31	196498	9.78	193168	12.84	208394	14.47
9M110587.D	ICV BNA@50PPM	20790	2.65	44453	5.87	167196	6.87	94076	8.31	189278	9.78	187846	12.84	197669	14.47
9M110588.D	BNA MDL(AQ)-2	20516	2.65	45748	5.87	171167	6.87	99584	8.31	197959	9.77	193876	12.83	203740	14.46
9M110589.D	BNA MDL(S)-2	18986	2.63	40194	5.87	151070	6.87	86186	8.31	172099	9.77	164361	12.83	176010	14.46
9M110590.D	SMB98421	20032	2.64	41128	5.87	151357	6.87	89366	8.31	172964	9.77	170452	12.83	178667	14.46

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110637.D Method: EPA 8270E

Analysis Date/Time: 01/11/22 08:26

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	25013	2.64	49457	5.86	188032	6.87	108133	8.31	211447	9.77	204707	12.83	221906	14.46
Eval File Area Limit:	12506-50026		24728-98914		94016-376064		54066-216266		105724-422894		102354-409414		110953-443812	
Eval File Rt Limit:	2.14-3.14		5.36-6.36		6.37-7.37		7.81-8.81		9.27-10.27		12.33-13.33		13.96-14.96	

Data File	Sample#													
9M110638.D	SMB98442(MS)	24176	2.62	46972	5.86	173366	6.87	99349	8.31	194971	9.77	194739	12.83	207329	14.46
9M110639.D	SMB98442	26130	2.63	51853	5.86	198419	6.87	116112	8.31	233552	9.77	229297	12.82	239814	14.45
9M110640.D	AD28127-003	28083	2.63	54839	5.86	207498	6.87	120721	8.31	241433	9.77	230057	12.83	245228	14.45
9M110641.D	AD28127-003(MS)	27577	2.62	56967	5.86	214436	6.87	121315	8.31	242564	9.77	242925	12.83	249577	14.46
9M110642.D	AD28127-003(MSD)	33681	2.62	71509	5.86	269157	6.87	156388	8.31	311805	9.77	302942	12.83	323200	14.46
9M110643.D	AD28127-001	29352	2.63	65032	5.86	242332	6.87	142328	8.31	283204	9.77	266970	12.83	285405	14.46
9M110644.D	OMB98438	19946	2.64	46154	5.86	176552	6.88	103468	8.32	210091	9.78	201423	12.83	212447	14.46
9M110645.D	WMB98456(MS)	22779	2.65	50853	5.86	189765	6.88	109993	8.32	219791	9.78	214474	12.84	230670	14.47
9M110646.D	WMB98456	21655	2.65	48389	5.86	182298	6.87	109439	8.31	222215	9.77	218052	12.82	232402	14.46
9M110647.D	OMB98462	25442	2.65	53146	5.86	204981	6.87	120372	8.31	238064	9.78	224548	12.83	246474	14.47
9M110648.D	OMB98462(MS)	30850	2.65	62225	5.86	230809	6.87	132615	8.31	262057	9.77	258851	12.83	274631	14.46
9M110649.D	AD28211-001	24976	2.64	53904	5.86	197200	6.87	112771	8.31	212891	9.77	195414	12.83	212978	14.46
9M110650.D	AD28211-002	21959	2.64	46458	5.86	177383	6.87	99297	8.31	191862	9.77	166839	12.83	184943	14.46
9M110651.D	AD28211-008	22555	2.65	49052	5.87	173118	6.87	103167	8.31	202010	9.77	170056	12.83	168855	14.46
9M110652.D	AD28211-009	24453	2.65	54292	5.86	180877	6.87	111357	8.31	211548	9.77	177689	12.83	168800	14.47
9M110653.D	AD28211-012	24645	2.65	53389	5.86	209908	6.87	113756	8.31	202607	9.77	182902	12.83	202257	14.46
9M110654.D	AD28211-006	38766	2.65	48296	5.86	183176	6.87	103199	8.31	201588	9.77	171985	12.83	191233	14.46
9M110655.D	AD28211-007	19298	2.65	42596	5.86	153687	6.87	86806	8.31	158011	9.77	130164	12.83	137819	14.47
9M110656.D	AD28211-010	18647	2.65	43266	5.87	146305	6.87	88554	8.31	163797	9.77	140673	12.83	135675	14.47
9M110657.D	AD28211-011	22953	2.65	49865	5.86	173791	6.87	103943	8.31	193145	9.77	168745	12.83	167733	14.47

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110659.D Method: EPA 8270E

Analysis Date/Time: 01/12/22 08:46

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	20392	2.64	44434	5.87	176336	6.87	101105	8.31	210584	9.78	201279	12.84	217343	14.46
Eval File Area Limit:	10196-40784		22217-88868		88168-352672		50552-202210		105292-421168		100640-402558		108672-434686	
Eval File Rt Limit:	2.14-3.14		5.37-6.37		6.37-7.37		7.81-8.81		9.28-10.28		12.34-13.34		13.96-14.96	

Data File	Sample#													
9M110660.D	SMB98463(MS)	19647	2.63	34247	5.87	132748	6.87	75838	8.31	153716	9.78	150608	12.83	161781	14.46
9M110661.D	SMB98463	40354	2.62	38465	5.86	155041	6.87	90973	8.31	183306	9.77	183178	12.83	189909	14.46
9M110662.D	AD28245-001	35180	2.63	40323	5.86	154291	6.87	90427	8.31	185128	9.77	184012	12.83	193190	14.46
9M110663.D	AD28235-001	21396	2.64	45956	5.87	168654	6.87	95967	8.31	188886	9.77	180062	12.83	201730	14.46
9M110664.D	AD28235-002	21946	2.64	46826	5.86	172695	6.87	97293	8.31	181451	9.78	175527	12.83	201656	14.46
9M110665.D	AD28235-003	21903	2.63	45358	5.86	170474	6.87	92898	8.31	179482	9.78	176581	12.83	195974	14.46
9M110666.D	AD28235-004	21683	2.64	41817	5.87	161058	6.87	93988	8.31	184380	9.77	177111	12.83	192552	14.46
9M110667.D	AD28235-005	25002	2.64	44485	5.87	172106	6.87	97954	8.31	199483	9.77	196278	12.83	209598	14.46
9M110668.D	AD28235-006	25904	2.65	46239	5.87	180800	6.87	103423	8.31	200126	9.77	189565	12.83	207472	14.47
9M110669.D	AD28235-007	27840	2.64	49899	5.86	190352	6.87	102905	8.31	213481	9.77	206256	12.83	223583	14.46
9M110670.D	AD28235-008	23300	2.64	46764	5.86	179386	6.87	101258	8.31	193718	9.77	199466	12.83	219749	14.46
9M110671.D	SMB98463	24275	2.62	45112	5.86	170224	6.87	96582	8.31	200599	9.77	189700	12.83	202017	14.47
9M110672.D	AD28170-004	24974	2.64	52220	5.86	198371	6.87	114319	8.31	228248	9.78	220621	12.83	237289	14.46
9M110673.D	EF-SPLP V-363754(0	25137	2.64	51948	5.86	203100	6.87	118127	8.31	237789	9.77	228692	12.83	242509	14.46
9M110674.D	AD28065-003(T)	24433	2.64	51107	5.87	192560	6.87	108119	8.31	208686	9.77	218741	12.83	238129	14.47
9M110675.D	AD28065-003(T)(MS)	25905	2.64	50020	5.87	187445	6.87	104639	8.31	207169	9.78	205700	12.84	220088	14.47
9M110676.D	AD28065-003(T)(MSD	22991	2.64	47748	5.87	180914	6.87	100491	8.31	195758	9.78	191602	12.84	207292	14.47
9M110677.D	AD28065-004(T)	22069	2.64	48726	5.87	185687	6.87	99402	8.31	189701	9.78	202095	12.83	222304	14.46
9M110678.D	AD28211-010	26730	2.64	54735	5.87	171857	6.87	104261	8.31	193858	9.77	162143	12.84	160714	14.48
9M110679.D	AD28211-011	22906	2.65	53585	5.87	184694	6.87	108753	8.31	207676	9.78	179120	12.83	177618	14.47
9M110680.D	AD28236-001	16928	2.64	37428	5.86	143504	6.87	82333	8.31	158830	9.77	147005	12.83	149013	14.46
9M110681.D	AD28236-001(MS)	16799	2.63	36702	5.87	144883	6.87	81931	8.31	159911	9.78	145300	12.83	147874	14.46
9M110682.D	AD28236-001(MSD)	19181	2.63	43065	5.87	168134	6.87	96433	8.31	188994	9.78	170898	12.83	180832	14.46
9M110683.D	WMB98469	20087	2.65	45906	5.87	174942	6.87	103867	8.31	201651	9.77	183918	12.83	186605	14.46
9M110684.D	AD28193-001(3X)(R)	21416	2.64	49307	5.87	180019	6.87	96867	8.31	183309	9.77	166879	12.83	167994	14.47

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28235-001
Client Id: MW-001
Data File: 7G56322.D
Analysis Date: 01/13/22 12:06
Date Rec/Extracted: 01/10/22-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**300**	**770**				

Worksheet #: 625255 *Total Target Concentration* 770 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56322.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:06
Operator : ABM/AH
Sample : AD28235-001
Misc : A,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:40:11 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

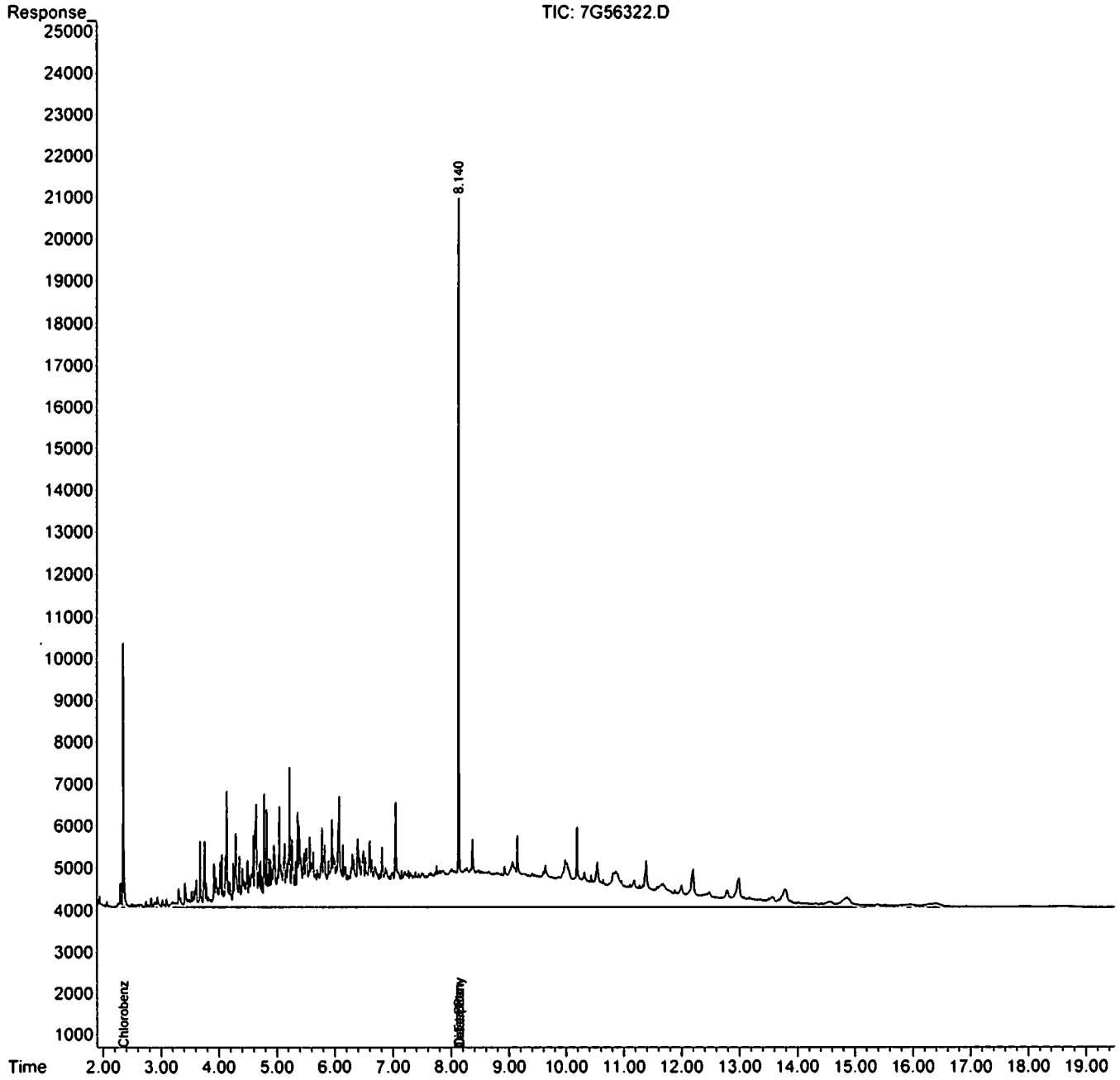
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.351	53448	15.971		
23)	O-Terphenyl	8.140	122189	19.901		
24)d	Diesel Range Organics(T	8.140f	3800227	712.509		m
25)t	Total Petroleum Hydroca	8.140f	4537663	870.360		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56322.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:06
Operator : ABM/AH
Sample : AD28235-001
Misc : A,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:40:11 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28235-002
Client Id: MW-002
Data File: 7G56323.D
Analysis Date: 01/13/22 12:35
Date Rec/Extracted: 01/10/22-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**300**	**4900**				

Worksheet #: 625255

Total Target Concentration 4900

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56323.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:35
Operator : ABM/AH
Sample : AD28235-002
Misc : A,TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:44:26 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

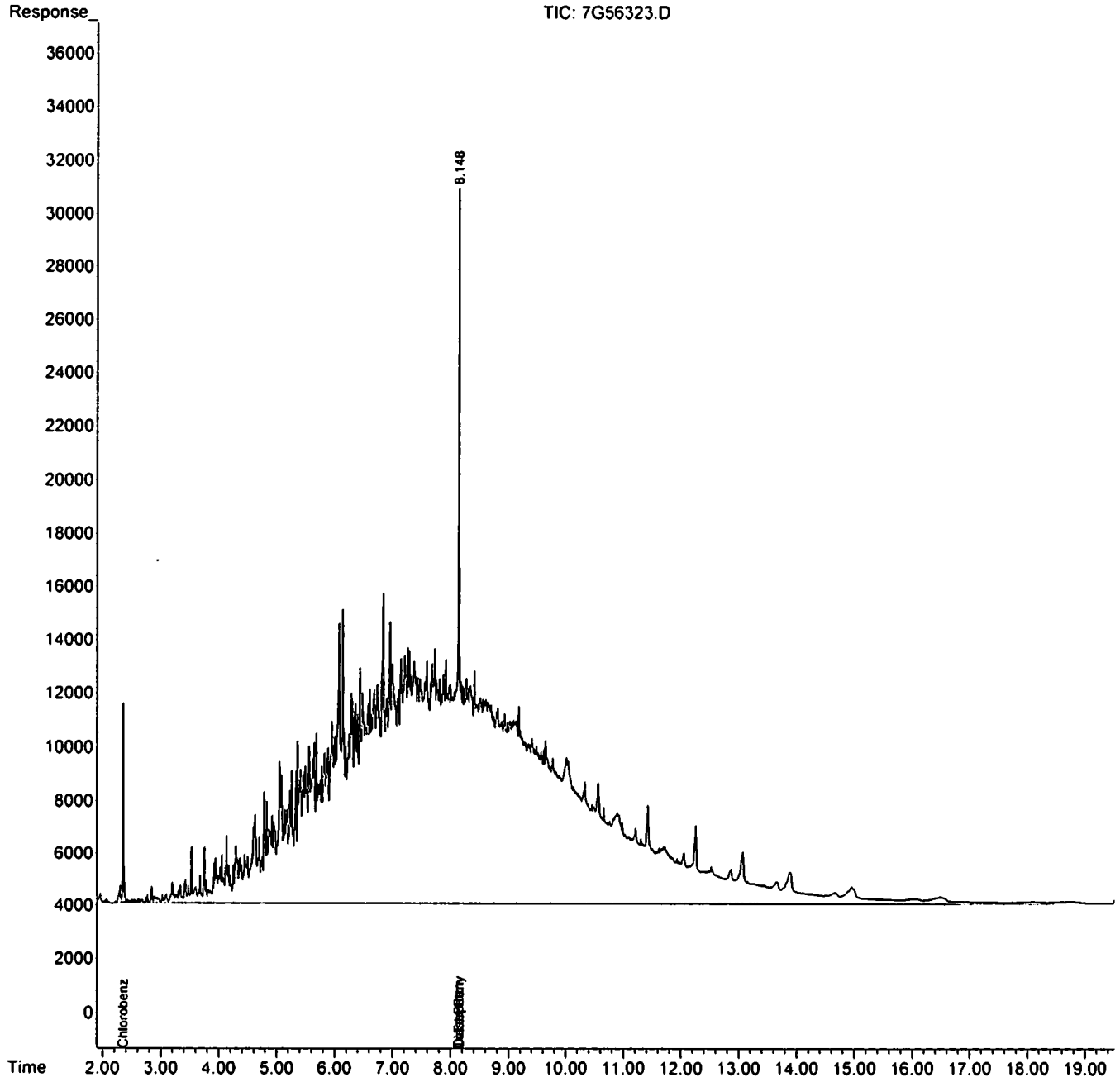
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.351	64669	19.324		
23)	O-Terphenyl	8.148	148751	24.227		m
24)d	Diesel Range Organics(T	8.148f	23717838	4446.888		m
25)t	Total Petroleum Hydroca	8.148f	26378891	5059.683		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56323.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:35
Operator : ABM/AH
Sample : AD28235-002
Misc : A,TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:44:26 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28235-003
Client Id: MW-004
Data File: 7G56324.D
Analysis Date: 01/13/22 13:04
Date Rec/Extracted: 01/10/22-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**300**	**1200**				

Worksheet #: 625255 *Total Target Concentration* 1200 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56324.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 13:04
Operator : ABM/AH
Sample : AD28235-003
Misc : A,TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:46:43 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

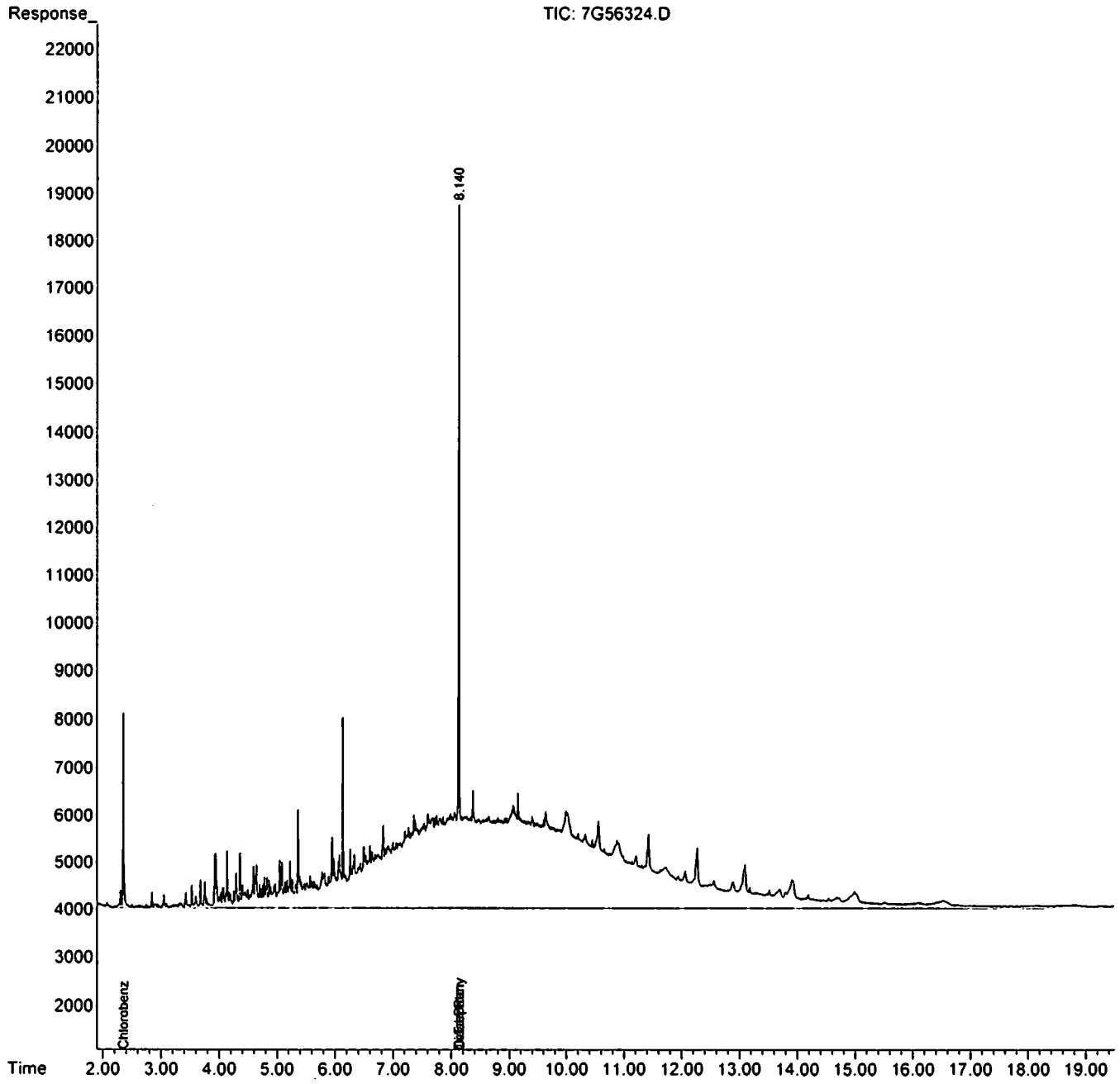
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.351	34056	10.176		
23)	O-Terphenyl	8.140	96890	15.780		m
24)d	Diesel Range Organics(T	8.140f	5532366	1037.270		m
25)t	Total Petroleum Hydroca	8.140f	6721754	1289.286		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56324.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 13:04
Operator : ABM/AH
Sample : AD28235-003
Misc : A,TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:46:43 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: WMB98466
Client Id:
Data File: 7G56320.D
Analysis Date: 01/13/22 11:07
Date Rec/Extracted: NA-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 625255

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56320.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 11:07
Operator : ABM/AH
Sample : WMB98466
Misc : A,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:33:50 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

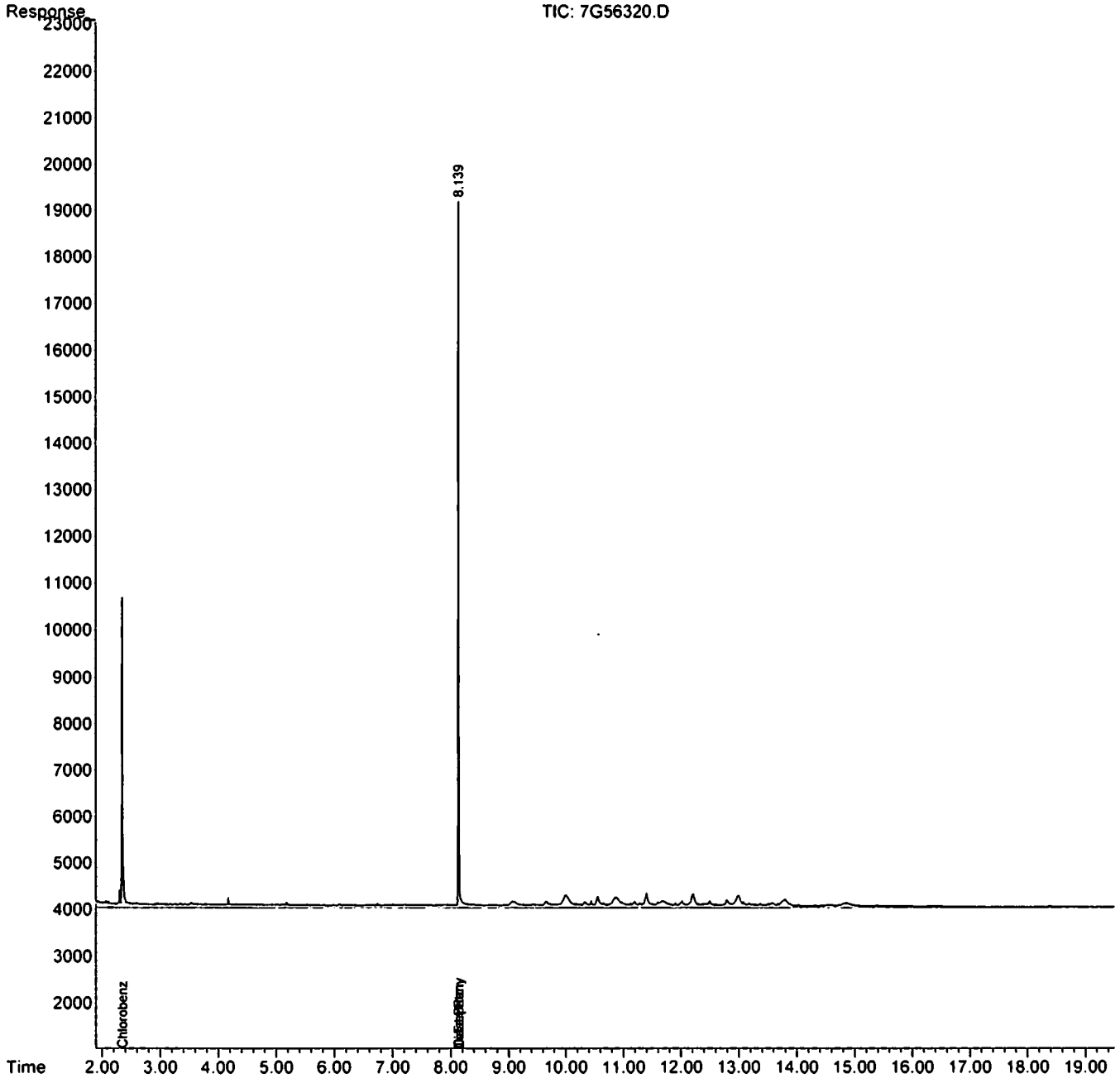
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.351	57202	17.092		
23)	O-Terphenyl	8.139	112447	18.314		
24)d	Diesel Range Organics(T	8.139f	438191	82.157		m
25)t	Total Petroleum Hydroca	8.139f	776442	148.928		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56320.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 11:07
Operator : ABM/AH
Sample : WMB98466
Misc : A,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:33:50 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56319.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 10:38
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:36:51 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

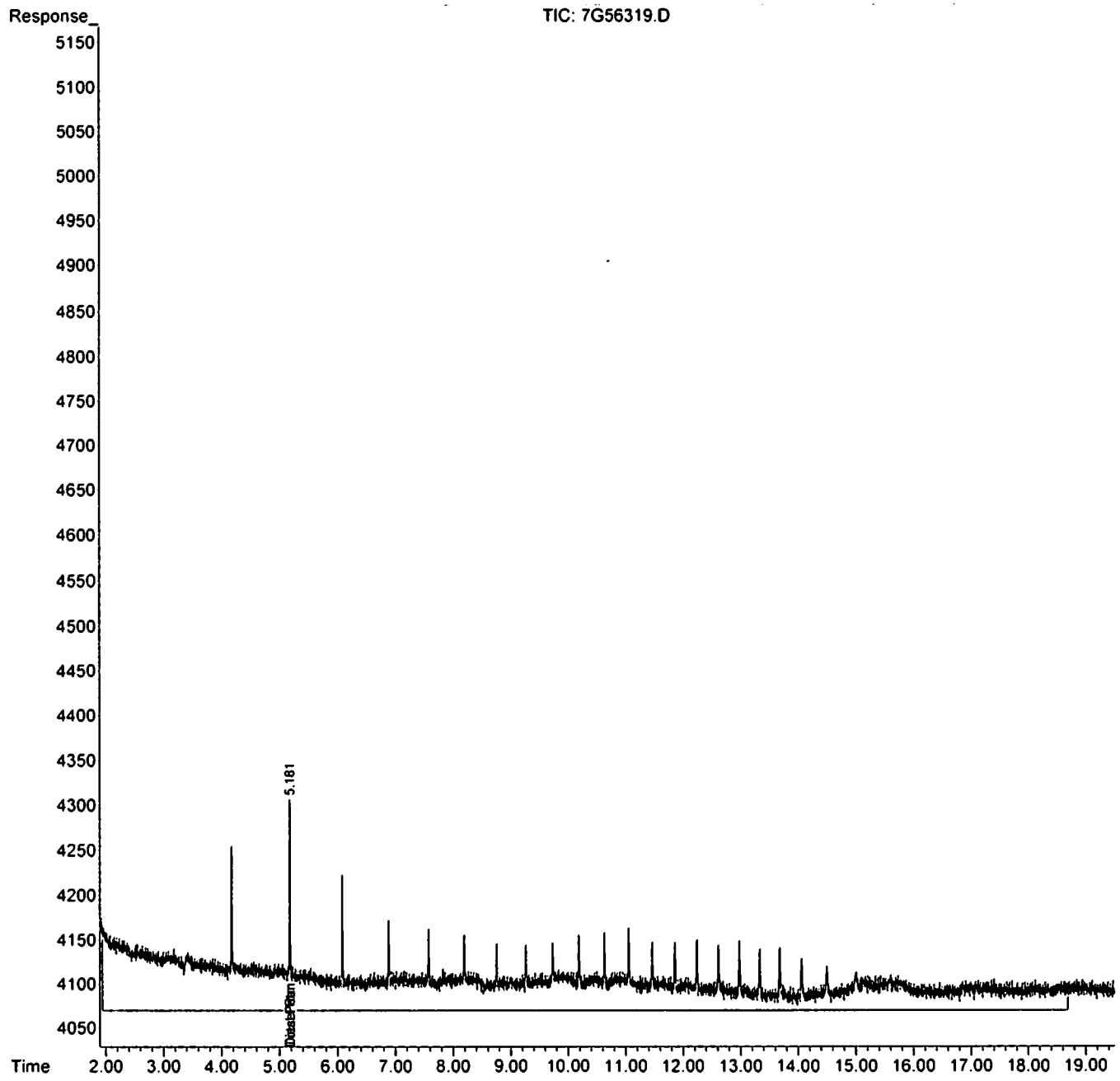
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.181	188035	35.255		m
25)t	Total Petroleum Hydroca	5.181	344875	66.150		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56319.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 10:38
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:36:51 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2022\GC_7\Data\01-14-22\
Data File : 7G56330.D
Signal(s) : FID2B.CH
Acq On : 14 Jan 2022 10:40
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 09:59:22 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

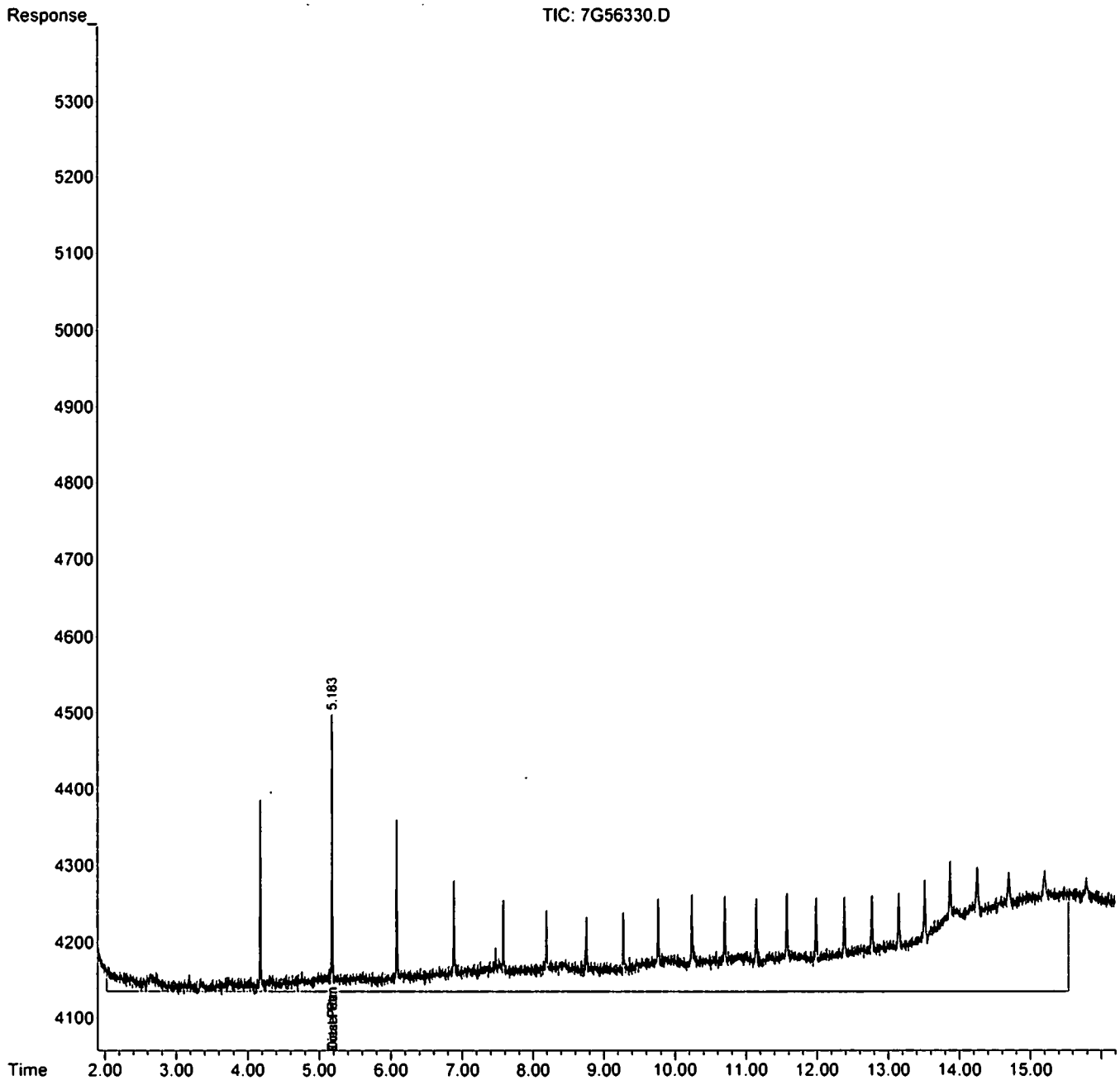
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)	Chlorobenzene	0.000	0	N.D.		
22)	O-Terphenyl	0.000	0	N.D.		
23)d	Diesel Range Organics(T	5.183	135622	23.653		m
24)t	Total Petroleum Hydroca	5.183	354668	62.646		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-14-22\
Data File : 7G56330.D
Signal(s) : FID2B.CH
Acq On : 14 Jan 2022 10:40
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 09:59:22 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56320.D	WMB98466	A	01/13/22 11:07	1		85	92				
7G56322.D	AD28235-001	A	01/13/22 12:06	1		80	100				
7G56323.D	AD28235-002	A	01/13/22 12:35	1		97	121				
7G56324.D	AD28235-003	A	01/13/22 13:04	1		51	79				
7G56321.D	WMB98466(MS)	A	01/13/22 11:36	1		78	90				
7G56333.D	AD28222-002(5X)	A	01/14/22 13:46	5		80	90				
7G56334.D	AD28222-002(5X)(MS)	A	01/14/22 14:12	5		48	76				
7G56335.D	AD28222-002(5X)(MSD)	A	01/14/22 14:38	5		52	86				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	24-136
S2=O-Terphenyl	20	40-154

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98466

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56321.D	WMB98466(MS)	1/13/2022 11:36:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56319.D	INST BLK	1/13/2022 10:38:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2298.63	0	3000	77	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98466

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56334.D	AD28222-002(5X)(MS)	1/14/2022 2:12:00 PM
Non Spike(If applicable):	7G56333.D	AD28222-002(5X)	1/14/2022 1:46:00 PM
Inst Blank(If applicable):	7G56330.D	INST BLK	1/14/2022 10:40:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3773.65	3911.2	3000	-4.6*	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56335.D	AD28222-002(5X)(MSD)	1/14/2022 2:38:00 PM
Non Spike(If applicable):	7G56333.D	AD28222-002(5X)	1/14/2022 1:46:00 PM
Inst Blank(If applicable):	7G56330.D	INST BLK	1/14/2022 10:40:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	4056.6	3911.2	3000	4.8*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB98466

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56335.D	AD28222-002(5X)(MSD)	1/14/2022 2:38:00 PM
Duplicate(If applicable):	7G56334.D	AD28222-002(5X)(MS)	1/14/2022 2:12:00 PM
Inst Blank(If applicable):	7G56330.D	INST BLK	1/14/2022 10:40:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	4056.6	3773.65	7.2	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB98466
Blank Data File: 7G56320.D
Matrix: Aqueous

Blank Analysis Date: 01/13/22 11:07
Blank Extraction Date: 01/12/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD28235-001	7G56322.D	01/13/22 12:06
AD28235-002	7G56323.D	01/13/22 12:35
AD28235-003	7G56324.D	01/13/22 13:04
AD28222-002(5X)(	7G56335.D	01/14/22 14:38
AD28222-002(5X)(	7G56334.D	01/14/22 14:12
AD28222-002(5X)	7G56333.D	01/14/22 13:46
WMB98466(MS)	7G56321.D	01/13/22 11:36

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56317.D	INST BLK	01/13/22 09:52	Soil					
7G56318.D	CAL TPH@20PPM	01/13/22 10:04	Aqueous	7G56318.	8.1476	0		
7G56319.D	INST BLK	01/13/22 10:38	Aqueous	7G56318.	0.0000	200		
7G56320.D	WMB98466	01/13/22 11:07	Aqueous	7G56318.	8.1392	0.1032		
7G56321.D	WMB98466(MS)	01/13/22 11:36	Aqueous	7G56318.	8.1336	0.172		
7G56322.D	AD28235-001	01/13/22 12:06	Aqueous	7G56318.	8.1401	0.0921		
7G56323.D	AD28235-002	01/13/22 12:35	Aqueous	7G56318.	8.1475	0.0012		
7G56324.D	AD28235-003	01/13/22 13:04	Aqueous	7G56318.	8.1399	0.0946		
7G56325.D	AD28222-002(MS)	01/13/22 13:34	Soil	7G56318.	8.1333	0.1757		
7G56326.D	AD28222-002(MSD)	01/13/22 14:03	Soil	7G56318.	8.1333	0.1757		
7G56327.D	CAL TPH@20PPM	01/13/22 14:33	Soil	7G56318.	8.1401	0.0921		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56328.D	INST BLK	01/14/22 08:44	Soil					
7G56329.D	CAL TPH@20PPM	01/14/22 09:10	Soil	7G56329.	8.1427	0		
7G56330.D	INST BLK	01/14/22 10:40	Aqueous	7G56329.	0.0000	200		
7G56331.D	WMB98466	01/14/22 11:06	Aqueous	7G56329.	8.1400	0.0332		
7G56332.D	AD28222-002	01/14/22 12:46	Aqueous	7G56329.	8.0726	0.8646		
7G56333.D	AD28222-002(5X)	01/14/22 13:46	Aqueous	7G56329.	8.1374	0.0651		
7G56334.D	AD28222-002(5X)(MS)	01/14/22 14:12	Aqueous	7G56329.	8.1244	0.225		
7G56335.D	AD28222-002(5X)(MSD)	01/14/22 14:38	Aqueous	7G56329.	8.1213	0.2632		
7G56336.D	CAL TPH@20PPM	01/14/22 15:07	Soil	7G56329.	8.1380	0.0577		
7G56337.D	AD28226-021(FP)	01/14/22 15:33	Soil	7G56336.	0.0000	200		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2011002 0200

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	---	---	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	---	---	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	---	---	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	---	---	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	---	---	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	---	---	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	---	---	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	---	---	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	---	---	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	---	---	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	---	---	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	---	---	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	---	---	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	---	---	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	---	---	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	---	---	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	---	---	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	---	---	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	---	---	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	---	---	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	---	---	---	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	---	---	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	---	---	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	---	---	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	---	---	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	---	---	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G56318.D				7G56327.D				7G56329.D				7G56336.D						
Method:				8015				8015				8015				8015						
Calibration Name:				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM						
Calibration Date/Time				01/13/22 10:04				01/13/22 14:33				01/14/22 09:10				01/14/22 15:07						
				Conc				Conc				Conc				Conc				Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff
C8	20	1	0	15.61	20	22.0*		16.97	20	15.2		16.61	20	17.0		17.92	20	10.4				
C9	20	1	0	15.76	20	21.2*		18.25	20	8.8		17.21	20	14.0		18.8	20	6.0				
C10	20	1	0	15.76	20	21.2*		18.85	20	5.7		18.05	20	9.8		20.15	20	0.7				
C12	20	1	0	15.37	20	23.2*		19.85	20	0.7		19.33	20	3.4		22.27	20	11.4				
C14	20	1	0	18.28	20	8.6		21.9	20	9.5		20.71	20	3.5		22.93	20	14.7				
C16	20	1	0	19.73	20	1.4		21.86	20	9.3		21.11	20	5.6		23.16	20	15.8				
C17	20	1	0	16.33	20	18.4		18.13	20	9.4		19.46	20	2.7		20.62	20	3.1				
Pristane	20	1	0	24.64	20	23.2*		26.88	20	34.4*		26.09	20	30.5*		26.6	20	33.0*				
C18	20	1	0	20.16	20	0.8		22.81	20	14.1		23.22	20	16.1		25.34	20	26.7*				
Phytane	20	1	0	19.65	20	1.8		20.73	20	3.6		21.63	20	8.1		22.98	20	14.9				
C20	20	1	0	21.48	20	7.4		23.75	20	18.8		21.47	20	7.3		23.27	20	16.4				
C22	20	1	0	21.4	20	7.0		23.35	20	16.8		21.6	20	8.0		23.35	20	16.8				
C24	20	1	0	21.48	20	7.4		23.43	20	17.2		21.78	20	8.9		23.38	20	16.9				
C26	20	1	0	21.75	20	8.8		23.71	20	18.6		22.02	20	10.1		23.67	20	18.4				
C28	20	1	0	22.33	20	11.7		24.32	20	21.6*		22.32	20	11.6		23.95	20	19.8				
C30	20	1	0	23.13	20	15.6		25.21	20	26.1*		22.6	20	13.0		24.1	20	20.5*				
C32	20	1	0	24.24	20	21.2*		26.09	20	30.5*		22.59	20	13.0		25.52	20	27.6*				
C34	20	1	0	23.33	20	16.7		25.26	20	26.3*		21.53	20	7.7		22.78	20	13.9				
C36	20	1	0	21.95	20	9.8		23.6	20	18.0		20.37	20	1.9		21.3	20	6.5				
C40	20	1	0	19.77	20	1.1		21.51	20	7.6		19.46	20	2.7		19.9	20	0.5				
C44	20	1	0	16.32	20	18.4		19.76	20	1.2												
Chlorobenzene	20	1	0	16.75	20	16.3		18.45	20	7.7		17.47	20	12.7		19.1	20	4.5				
O-Terphenyl	20	1	0	21.27	20	6.4		23.95	20	19.8		22.07	20	10.4		23.98	20	19.9				
Average Difference	20	1	0			12.6				14.8				9.9				14.5				

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)		
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28235-001
Client Id: MW-001
Data File: 7G56322.D
Analysis Date: 01/13/22 12:06
Date Rec/Extracted: 01/10/22-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**300**	**660**				

Worksheet #: 625250 *Total Target Concentration* 660 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56322.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:06
Operator : ABM/AH
Sample : AD28235-001
Misc : A,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:40:11 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

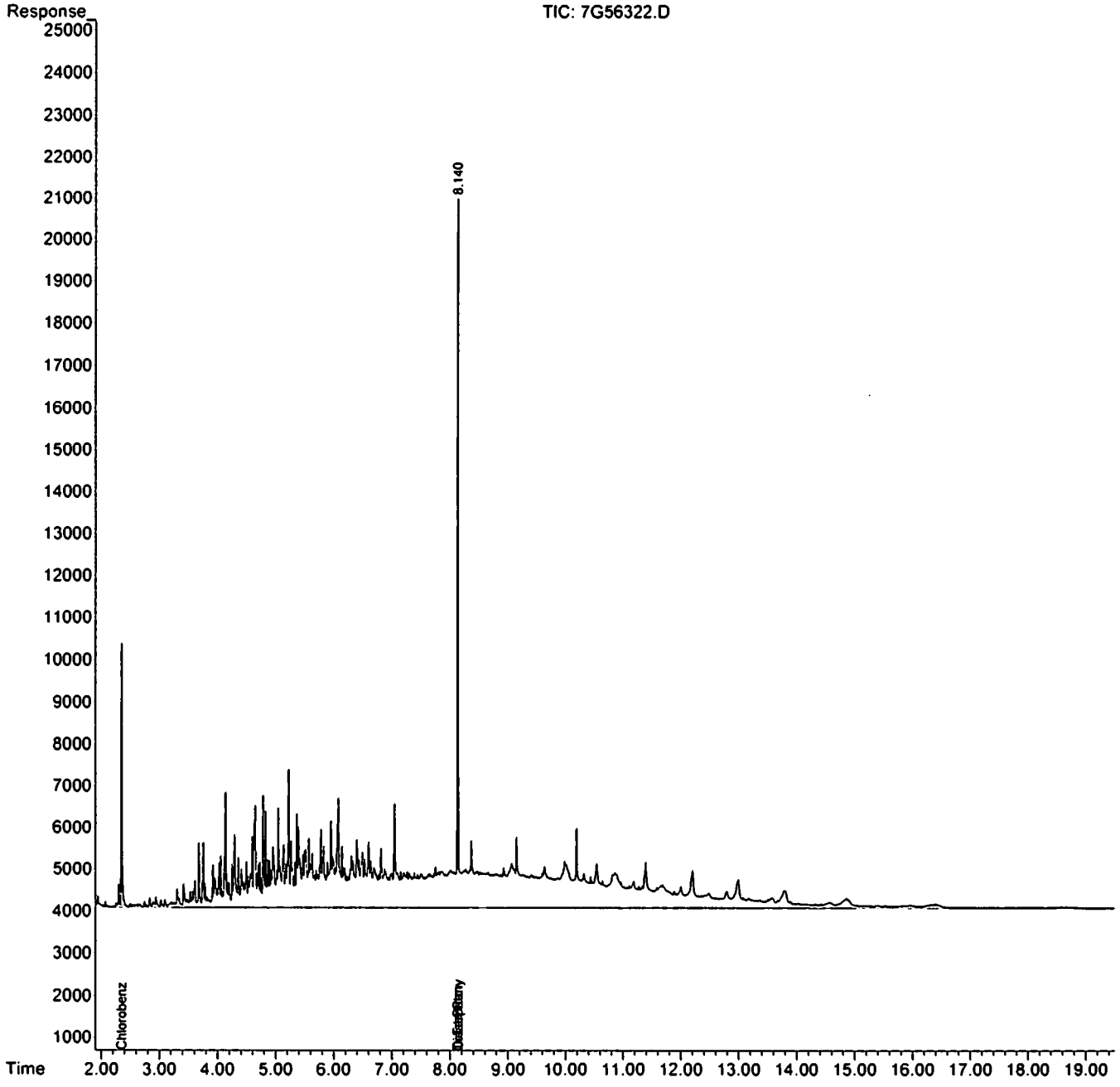
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.351	53448	15.971		
23)	O-Terphenyl	8.140	122189	19.901		
24)d	Diesel Range Organics(T	8.140f	3800227	712.509		m
25)t	Total Petroleum Hydroca	8.140f	4537663	870.360		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56322.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:06
Operator : ABM/AH
Sample : AD28235-001
Misc : A,TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:40:11 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28235-002
Client Id: MW-002
Data File: 7G56323.D
Analysis Date: 01/13/22 12:35
Date Rec/Extracted: 01/10/22-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	4400				

Worksheet #: 625250

Total Target Concentration 4400

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56323.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:35
Operator : ABM/AH
Sample : AD28235-002
Misc : A,TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:44:26 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

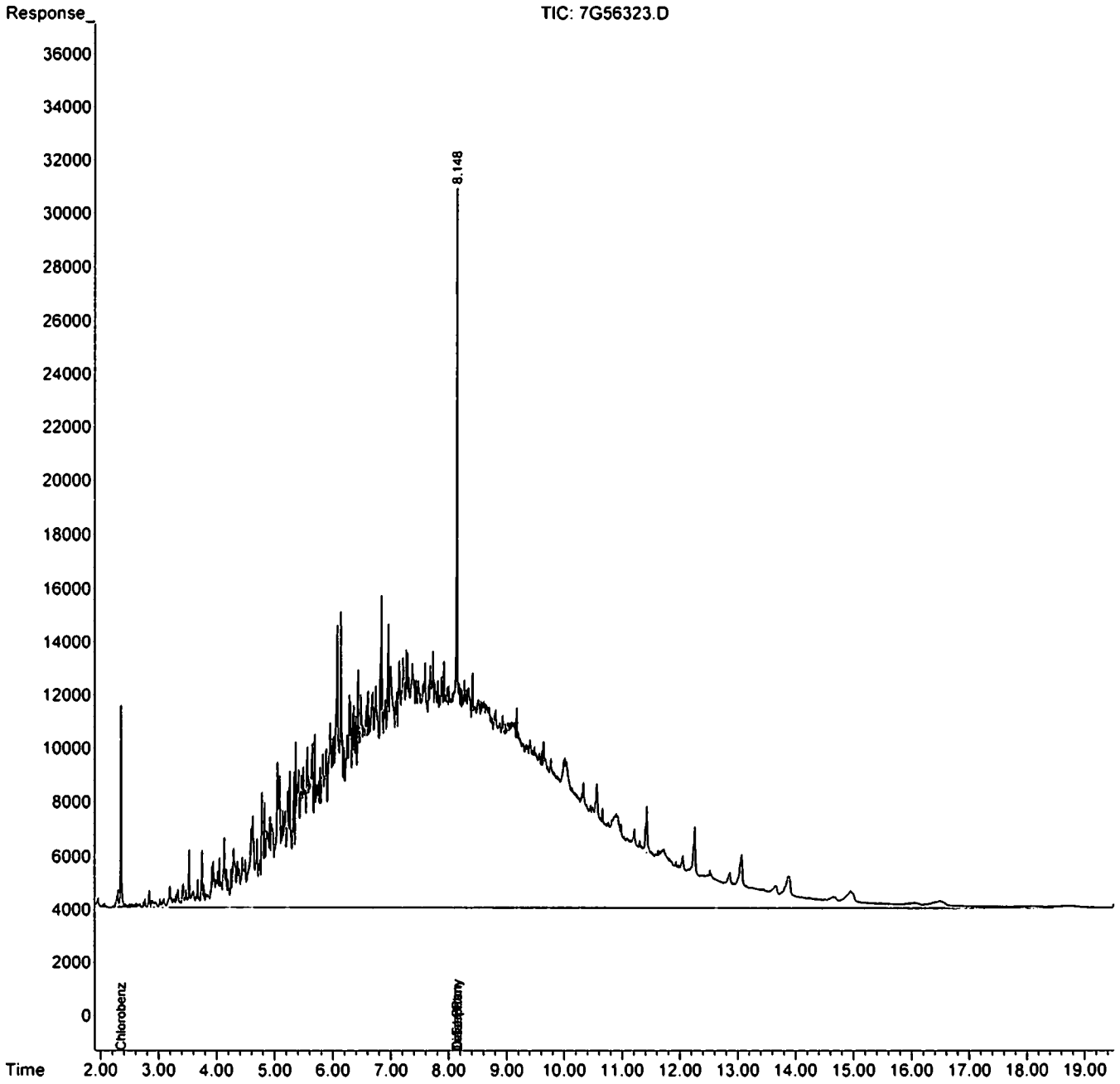
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.351	64669	19.324		
23)	O-Terphenyl	8.148	148751	24.227		m
24)d	Diesel Range Organics(T	8.148f	23717838	4446.888		m
25)t	Total Petroleum Hydroca	8.148f	26378891	5059.683		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56323.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 12:35
Operator : ABM/AH
Sample : AD28235-002
Misc : A,TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:44:26 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD28235-003
Client Id: MW-004
Data File: 7G56324.D
Analysis Date: 01/13/22 13:04
Date Rec/Extracted: 01/10/22-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**300**	**990**				

Worksheet #: 625250

Total Target Concentration 990

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56324.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 13:04
Operator : ABM/AH
Sample : AD28235-003
Misc : A,TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:46:43 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

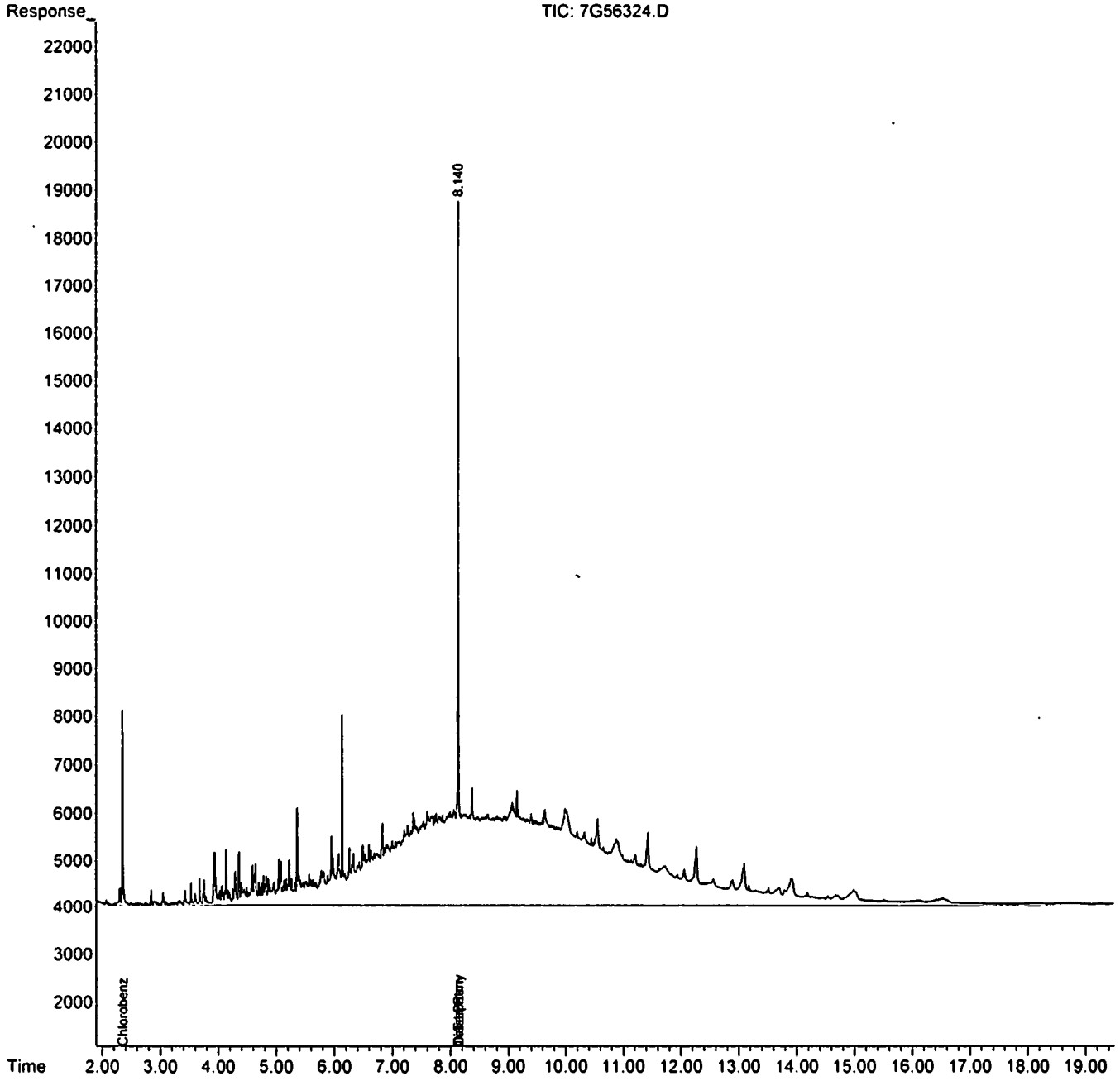
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.351	34056	10.176		
23)	O-Terphenyl	8.140	96890	15.780		m
24)d	Diesel Range Organics(T	8.140f	5532366	1037.270		m
25)t	Total Petroleum Hydroca	8.140f	6721754	1289.286		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56324.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 13:04
Operator : ABM/AH
Sample : AD28235-003
Misc : A,TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:46:43 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: WMB98466
Client Id:
Data File: 7G56320.D
Analysis Date: 01/13/22 11:07
Date Rec/Extracted: NA-01/12/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 625250

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56320.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 11:07
Operator : ABM/AH
Sample : WMB98466
Misc : A,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:33:50 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

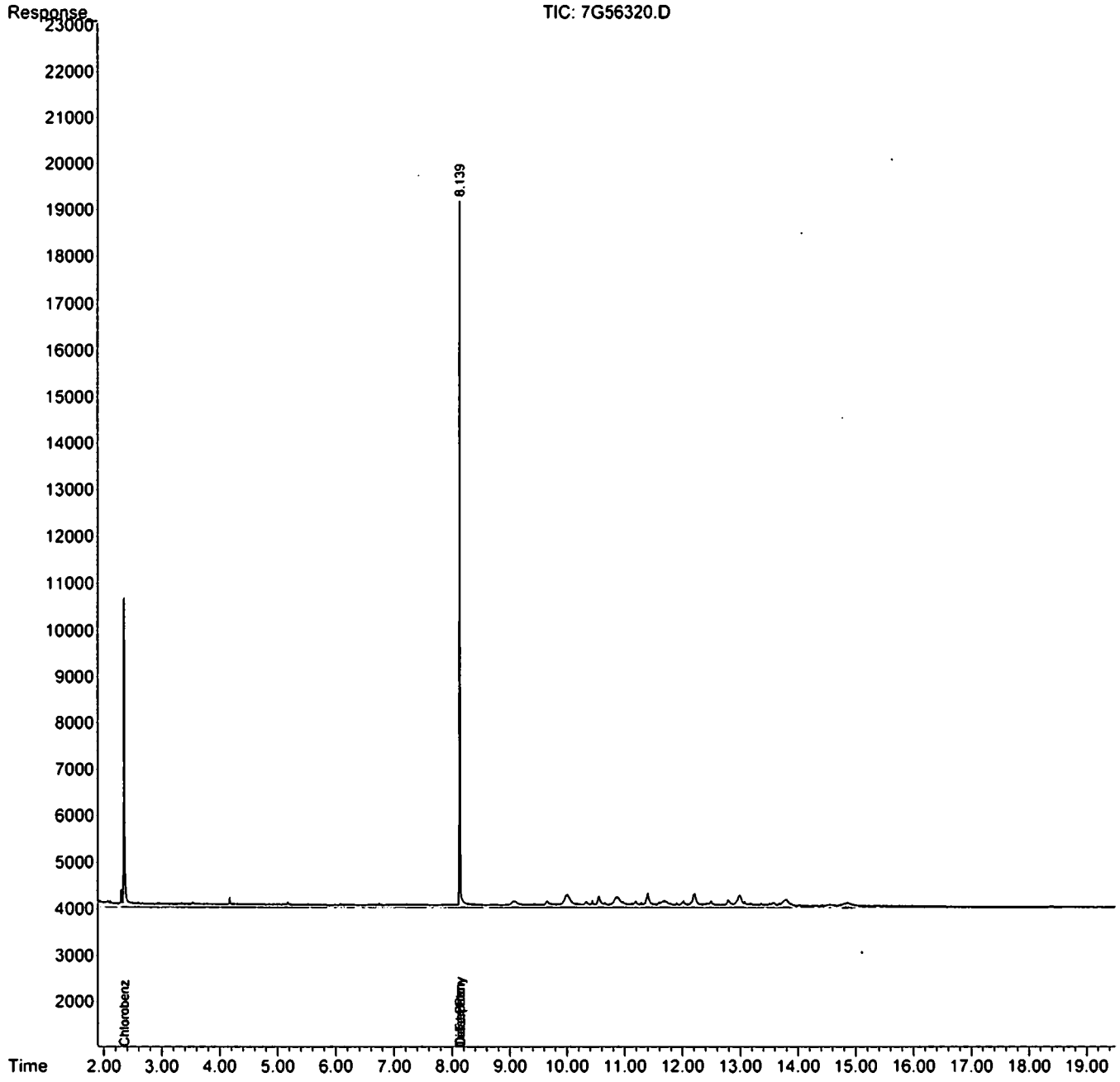
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	2.351	57202	17.092		
23)	O-Terphenyl	8.139	112447	18.314		
24)d	Diesel Range Organics(T	8.139f	438191	82.157		m
25)t	Total Petroleum Hydroca	8.139f	776442	148.928		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56320.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 11:07
Operator : ABM/AH
Sample : WMB98466
Misc : A,TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:33:50 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56319.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 10:38
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:36:51 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

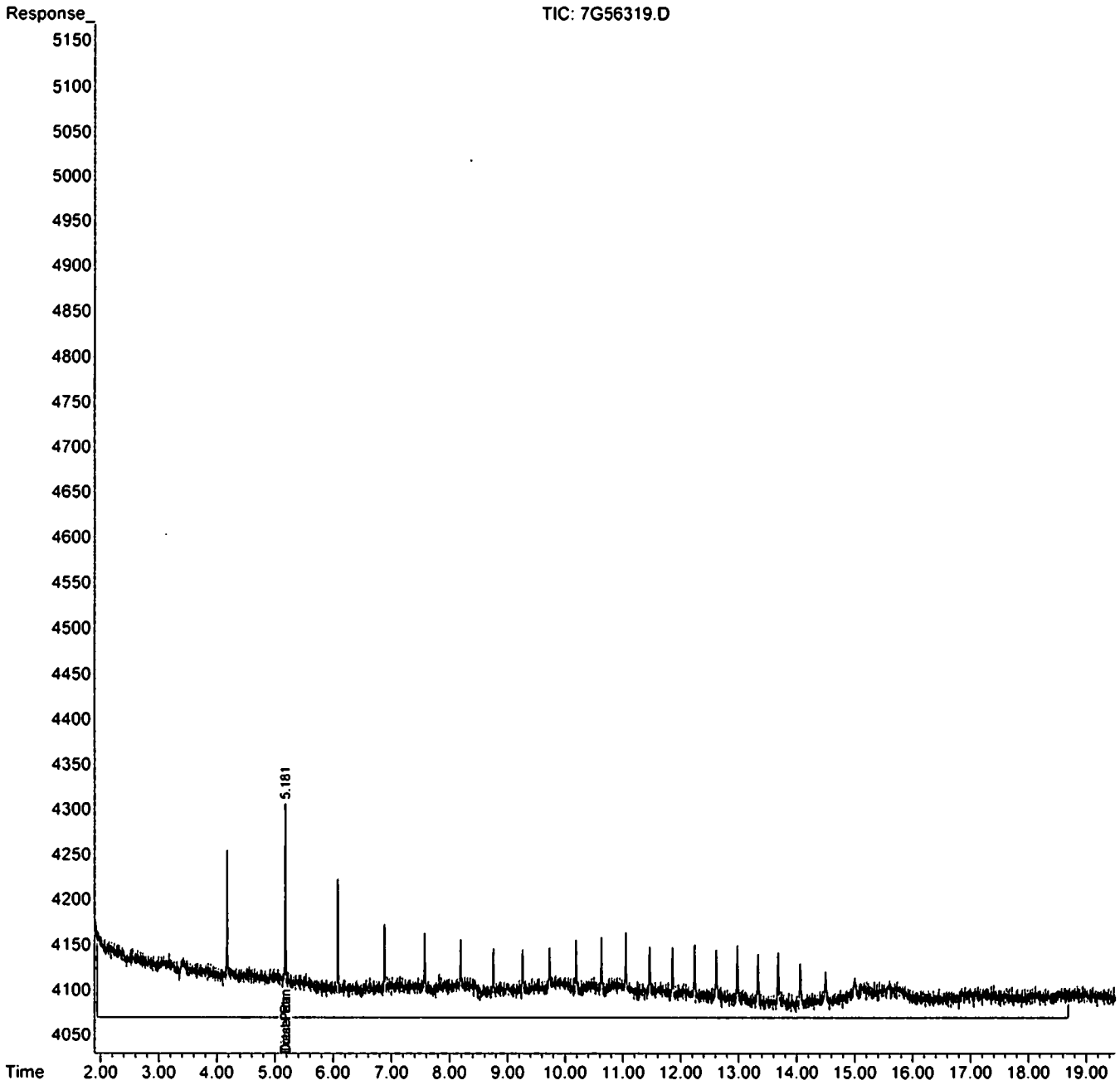
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.181	188035	35.255		m
25)t	Total Petroleum Hydroca	5.181	344875	66.150		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-13-22\
Data File : 7G56319.D
Signal(s) : FID2B.CH
Acq On : 13 Jan 2022 10:38
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 13 14:36:51 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0924.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 24 09:14:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2022\GC_7\Data\01-14-22\
Data File : 7G56330.D
Signal(s) : FID2B.CH
Acq On : 14 Jan 2022 10:40
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 09:59:22 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

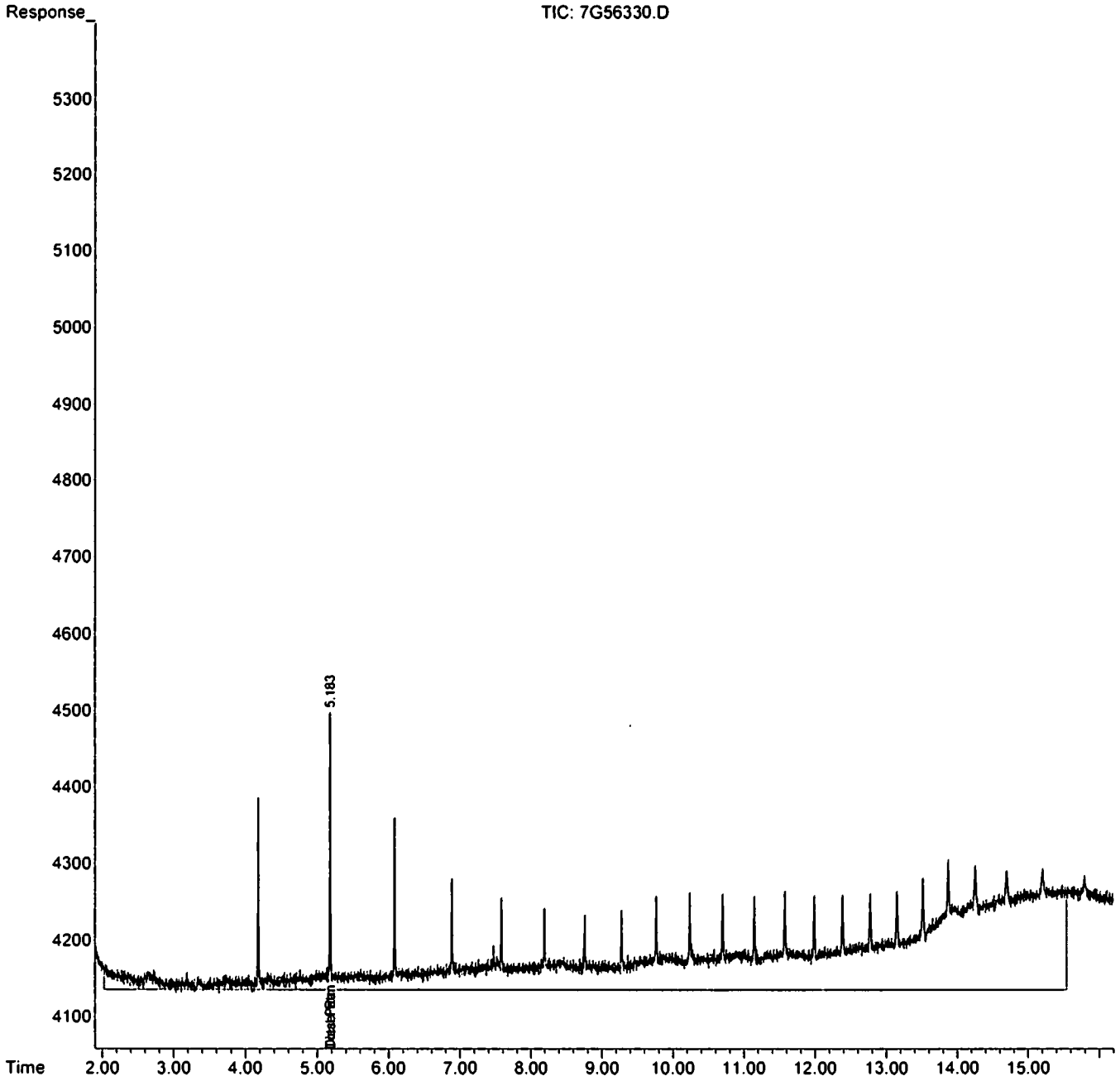
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)	Chlorobenzene	0.000	0	N.D.		
22)	O-Terphenyl	0.000	0	N.D.		
23)d	Diesel Range Organics(T	5.183	135622	23.653		m
24)t	Total Petroleum Hydroca	5.183	354668	62.646		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2022\GC_7\Data\01-14-22\
Data File : 7G56330.D
Signal(s) : FID2B.CH
Acq On : 14 Jan 2022 10:40
Operator : ABM/AH
Sample : INST BLK
Misc : A,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 09:59:22 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T0923.M
Quant Title : @GC_7,mg,8015
QLast Update : Mon Oct 18 12:42:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G56320.D	WMB98466	A	01/13/22 11:07	1		85	92				
7G56322.D	AD28235-001	A	01/13/22 12:06	1		80	100				
7G56323.D	AD28235-002	A	01/13/22 12:35	1		97	121				
7G56324.D	AD28235-003	A	01/13/22 13:04	1		51	79				
7G56321.D	WMB98466(MS)	A	01/13/22 11:36	1		78	90				
7G56333.D	AD28222-002(5X)	A	01/14/22 13:46	5		80	90				
7G56334.D	AD28222-002(5X)(MS)	A	01/14/22 14:12	5		48	76				
7G56335.D	AD28222-002(5X)(MSD)	A	01/14/22 14:38	5		52	86				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	24-136
S2=O-Terphenyl	20	40-154

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98466

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56321.D	WMB98466(MS)	1/13/2022 11:36:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G56319.D	INST BLK	1/13/2022 10:38:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2298.63**	**0**	**3000**	**77**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98466

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56334.D	AD28222-002(5X)(MS)	1/14/2022 2:12:00 PM
Non Spike(If applicable):	7G56333.D	AD28222-002(5X)	1/14/2022 1:46:00 PM
Inst Blank(If applicable):	7G56330.D	INST BLK	1/14/2022 10:40:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**3773.65**	**3911.2**	**3000**	**-4.6***	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56335.D	AD28222-002(5X)(MSD)	1/14/2022 2:38:00 PM
Non Spike(If applicable):	7G56333.D	AD28222-002(5X)	1/14/2022 1:46:00 PM
Inst Blank(If applicable):	7G56330.D	INST BLK	1/14/2022 10:40:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**4056.6**	**3911.2**	**3000**	**4.8***	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB98466

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G56335.D	AD28222-002(5X)(MSD)	1/14/2022 2:38:00 PM
Duplicate(If applicable):	7G56334.D	AD28222-002(5X)(MS)	1/14/2022 2:12:00 PM
Inst Blank(If applicable):	7G56330.D	INST BLK	1/14/2022 10:40:00 AM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**4056.6**	**3773.65**	**7.2**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB98466
Blank Data File: 7G56320.D
Matrix: Aqueous

Blank Analysis Date: 01/13/22 11:07
Blank Extraction Date: 01/12/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD28235-001	7G56322.D	01/13/22 12:06
AD28235-002	7G56323.D	01/13/22 12:35
AD28235-003	7G56324.D	01/13/22 13:04
AD28222-002(5X)(	7G56335.D	01/14/22 14:38
AD28222-002(5X)(	7G56334.D	01/14/22 14:12
AD28222-002(5X)	7G56333.D	01/14/22 13:46
WMB98466(MS)	7G56321.D	01/13/22 11:36

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55800.D	INST BLK	09/23/21 11:17	Soil					
7G55801.D	CAL TPH@500PPM	09/23/21 11:43	Soil	7G55806.	8.1988	0.7062		
7G55802.D	CAL TPH@100PPM	09/23/21 12:09	Soil	7G55806.	8.1579	0.2061		
7G55803.D	CAL TPH@40PPM	09/23/21 12:34	Soil	7G55806.	8.1498	0.1068		
7G55804.D	CAL TPH@20PPM	09/23/21 13:00	Soil	7G55806.	8.1452	0.0503		
7G55805.D	CAL TPH@10PPM	09/23/21 13:27	Soil	7G55806.	8.1436	0.0307		
7G55806.D	CAL TPH@5PPM	09/23/21 13:53	Soil	7G55806.	8.1411	0		
7G55807.D	ICV TPH@20PPM	09/23/21 14:19	Soil	7G55806.	8.1439	0.0344		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G55808.D	INST BLK	09/23/21 14:45	Soil					
7G55809.D	CAL TPH@500PPM	09/23/21 15:15	Soil	7G55814.	8.1962	0.7077		
7G55810.D	CAL TPH@100PPM	09/23/21 15:44	Soil	7G55814.	8.1568	0.2258		
7G55811.D	CAL TPH@40PPM	09/23/21 16:14	Soil	7G55814.	8.1467	0.1019		
7G55812.D	CAL TPH@20PPM	09/23/21 16:43	Soil	7G55814.	8.1413	0.0356		
7G55813.D	CAL TPH@10PPM	09/23/21 17:12	Soil	7G55814.	8.1385	0.0012		
7G55814.D	CAL TPH@5PPM	09/23/21 17:42	Soil	7G55814.	8.1384	0		
7G55815.D	ICV TPH@20PPM	09/23/21 18:12	Soil	7G55814.	8.1423	0.0479		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56317.D	INST BLK	01/13/22 09:52	Soil					
7G56318.D	CAL TPH@20PPM	01/13/22 10:04	Aqueous	7G56318.	8.1476	0		
7G56319.D	INST BLK	01/13/22 10:38	Aqueous	7G56318.	0.0000	200		
7G56320.D	WMB98466	01/13/22 11:07	Aqueous	7G56318.	8.1392	0.1032		
7G56321.D	WMB98466(MS)	01/13/22 11:36	Aqueous	7G56318.	8.1336	0.172		
7G56322.D	AD28235-001	01/13/22 12:06	Aqueous	7G56318.	8.1401	0.0921		
7G56323.D	AD28235-002	01/13/22 12:35	Aqueous	7G56318.	8.1475	0.0012		
7G56324.D	AD28235-003	01/13/22 13:04	Aqueous	7G56318.	8.1399	0.0946		
7G56325.D	AD28222-002(MS)	01/13/22 13:34	Soil	7G56318.	8.1333	0.1757		
7G56326.D	AD28222-002(MSD)	01/13/22 14:03	Soil	7G56318.	8.1333	0.1757		
7G56327.D	CAL TPH@20PPM	01/13/22 14:33	Soil	7G56318.	8.1401	0.0921		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G56328.D	INST BLK	01/14/22 08:44	Soil					
7G56329.D	CAL TPH@20PPM	01/14/22 09:10	Soil	7G56329.	8.1427	0		
7G56330.D	INST BLK	01/14/22 10:40	Aqueous	7G56329.	0.0000	200		
7G56331.D	WMB98466	01/14/22 11:06	Aqueous	7G56329.	8.1400	0.0332		
7G56332.D	AD28222-002	01/14/22 12:46	Aqueous	7G56329.	8.0726	0.8646		
7G56333.D	AD28222-002(5X)	01/14/22 13:46	Aqueous	7G56329.	8.1374	0.0651		
7G56334.D	AD28222-002(5X)(MS)	01/14/22 14:12	Aqueous	7G56329.	8.1244	0.225		
7G56335.D	AD28222-002(5X)(MSD)	01/14/22 14:38	Aqueous	7G56329.	8.1213	0.2632		
7G56336.D	CAL TPH@20PPM	01/14/22 15:07	Soil	7G56329.	8.1380	0.0577		
7G56337.D	AD28226-021(FP)	01/14/22 15:33	Soil	7G56336.	0.0000	200		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2011002 0229

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55806.D	CAL TPH@5PPM	09/23/21 13:53	2	7G55805.D	CAL TPH@10PPM	09/23/21 13:27
3	7G55804.D	CAL TPH@20PPM	09/23/21 13:00	4	7G55803.D	CAL TPH@40PPM	09/23/21 12:34
5	7G55802.D	CAL TPH@100PPM	09/23/21 12:09	6	7G55801.D	CAL TPH@500PPM	09/23/21 11:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.5154	0.4755	0.5087	0.4881	0.4646	0.5176	----	----	0.495	2.08	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.5383	0.4952	0.5501	0.5179	0.4911	0.5479	----	----	0.523	2.69	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.5165	0.4879	0.5375	0.5159	0.5041	0.5736	----	----	0.523	3.35	0.998	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.3322	0.3555	0.4919	0.5106	0.5201	0.5976	----	----	0.468	4.63	1.00	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.4700	0.4796	0.5779	0.5685	0.5574	0.6253	----	----	0.546	5.78	0.998	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4902	0.5265	0.6108	0.5835	0.5622	0.6209	----	----	0.566	6.80	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5358	0.5861	0.6032	0.6557	0.7222	0.9564	----	----	0.677	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.5309	0.4978	0.5769	0.5125	0.4374	0.3122	----	----	0.478	7.28	0.994	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.3492	0.4310	0.5513	0.5617	0.5662	0.7416	----	----	0.534	7.71	0.998	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Qua	0.7964	0.6945	0.6726	0.5952	0.5385	0.4805	----	----	0.630	7.74	1.00	1.00	18	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.5852	0.5720	0.6271	0.5975	0.5776	0.6335	----	----	0.599	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.5978	0.5813	0.6358	0.6059	0.5870	0.6415	----	----	0.608	9.30	1.00	1.00	4.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.6218	0.5963	0.6422	0.6162	0.5958	0.6495	----	----	0.620	10.00	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.6068	0.5818	0.6209	0.5927	0.5785	0.6262	----	----	0.601	10.67	1.00	1.00	3.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.6070	0.5910	0.6264	0.5960	0.5810	0.6267	----	----	0.605	11.31	1.00	1.00	3.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.6195	0.5982	0.6249	0.5980	0.5876	0.6218	----	----	0.608	11.93	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.6071	0.5938	0.6114	0.5851	0.5741	0.6012	----	----	0.595	12.53	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5857	0.5781	0.5881	0.5626	0.5519	0.5733	----	----	0.573	13.13	1.00	1.00	2.4	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5742	0.5689	0.5803	0.5547	0.5411	0.5525	----	----	0.562	13.74	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.5006	0.5215	0.5381	0.5194	0.5053	0.4823	----	----	0.511	15.47	0.999	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.3542	0.3209	0.3488	0.3289	0.3131	0.3439	----	----	0.335	2.38	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.6238	0.6000	0.6577	0.6219	0.5999	0.6671	----	----	0.628	8.15	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.5415	0.5370	0.5980	0.5778	0.5637	0.6220	----	----	0.573	3.35	1.00	1.00	5.7	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.5490	0.5406	0.5888	0.5669	0.5522	0.5991	----	----	0.566	2.08	1.00	1.00	4.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.5536	0.5453	0.5961	0.5739	0.5596	0.6101	----	----	0.573	2.69	1.00	1.00	4.4	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.38	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.4745	0.4587	0.5332	0.5202	0.5075	0.5724	----	----	0.511	2.08	1.00	1.00	8.0	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 8.36 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2011002 0230

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G55814.D	CAL TPH@5PPM	09/23/21 17:42	2	7G55813.D	CAL TPH@10PPM	09/23/21 17:12
3	7G55812.D	CAL TPH@20PPM	09/23/21 16:43	4	7G55811.D	CAL TPH@40PPM	09/23/21 16:14
5	7G55810.D	CAL TPH@100PPM	09/23/21 15:44	6	7G55809.D	CAL TPH@500PPM	09/23/21 15:15

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.3929	0.4009	0.4231	0.4029	0.4186	0.4377	---	---	0.413	2.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.4384	0.4344	0.4575	0.4307	0.4528	0.4789	---	---	0.449	2.68	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.4205	0.4289	0.4656	0.4456	0.4788	0.5179	---	---	0.460	3.35	0.999	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	0.2219	0.3508	0.4379	0.4416	0.4697	0.5302	---	---	0.409	4.63	1.00	1.00	27	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.3560	0.4323	0.3972	0.4177	0.4791	0.5162	---	---	0.433	5.77	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.4982	0.5220	0.5166	0.5161	0.5556	0.5859	---	---	0.532	6.79	0.999	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Qua	0.5316	0.5973	0.6312	0.6251	0.7325	0.9520	---	---	0.678	7.27	0.998	1.00	22	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	0.6033	0.5960	0.7537	0.6531	0.5518	0.4115	---	---	0.595	7.27	0.995	1.00	19	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Qua	0.2448	0.3846	0.5058	0.5181	0.5772	0.6971	---	---	0.488	7.71	0.999	1.00	32	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.6280	0.6229	0.5916	0.5235	0.5235	0.4552	---	---	0.558	7.74	0.997	1.00	12	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.4284	0.5386	0.5913	0.5694	0.6097	0.6389	---	---	0.563	8.54	1.00	1.00	13	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.4694	0.5217	0.5623	0.5382	0.5780	0.6089	---	---	0.546	9.30	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.5066	0.5428	0.5720	0.5509	0.5894	0.6195	---	---	0.564	10.00	1.00	1.00	7.0	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.5081	0.5325	0.5555	0.5335	0.5684	0.5997	---	---	0.550	10.65	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.5220	0.5491	0.5633	0.5394	0.5738	0.6037	---	---	0.559	11.27	1.00	1.00	5.1	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.5541	0.5618	0.5710	0.5513	0.5822	0.6097	---	---	0.572	11.88	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.5408	0.5483	0.5478	0.5304	0.5598	0.5817	---	---	0.552	12.48	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.5525	0.5603	0.5520	0.5372	0.5654	0.5841	---	---	0.559	13.06	1.00	1.00	2.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.5275	0.5305	0.5280	0.5169	0.5431	0.5493	---	---	0.533	13.66	1.00	1.00	2.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.4738	0.5525	0.4966	0.4906	0.5120	0.4828	---	---	0.501	15.39	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.4760	0.4717	0.4778	0.4760	0.4743	---	---	---	0.475	18.43	1.00	1.00	0.48	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	0.3279	0.3229	0.3443	0.3232	0.3382	0.3512	---	---	0.335	2.38	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.5381	0.5735	0.6347	0.6074	0.6472	0.6828	---	---	0.614	8.14	1.00	1.00	8.5	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.4568	0.5092	0.5495	0.5286	0.5606	0.5951	---	---	0.533	3.35	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.4712	0.5086	0.5332	0.5147	0.5427	0.5576	---	---	0.521	2.08	1.00	1.00	5.8	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.4751	0.5142	0.5445	0.5244	0.5550	0.5856	---	---	0.533	2.68	1.00	1.00	7.1	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.3659	0.4095	0.4362	0.4277	0.4598	0.4962	---	---	0.433	2.21	1.00	1.00	10	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.45 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			7G56318.D				7G56327.D				7G56329.D				7G56336.D							
Method:			8015				8015				8015				8015							
Calibration Name:			CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM				CAL TPH@20PPM							
Calibration Date/Time			01/13/22 10:04				01/13/22 14:33				01/14/22 09:10				01/14/22 15:07							
				Conc				Conc				Conc				Conc				Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff	
C8	20	1	0	15.61	20	22.0*	16.97	20	15.2		16.61	20	17.0		17.92	20	10.4					
C9	20	1	0	15.76	20	21.2*	18.25	20	8.8		17.21	20	14.0		18.8	20	6.0					
C10	20	1	0	15.76	20	21.2*	18.85	20	5.7		18.05	20	9.8		20.15	20	0.7					
C12	20	1	0	15.37	20	23.2*	19.85	20	0.7		19.33	20	3.4		22.27	20	11.4					
C14	20	1	0	18.28	20	8.6	21.9	20	9.5		20.71	20	3.5		22.93	20	14.7					
C16	20	1	0	19.73	20	1.4	21.86	20	9.3		21.11	20	5.6		23.16	20	15.8					
C17	20	1	0	16.33	20	18.4	18.13	20	9.4		19.46	20	2.7		20.62	20	3.1					
Pristane	20	1	0	24.64	20	23.2*	26.88	20	34.4*		26.09	20	30.5*		26.6	20	33.0*					
C18	20	1	0	20.16	20	0.8	22.81	20	14.1		23.22	20	16.1		25.34	20	26.7*					
Phytane	20	1	0	19.65	20	1.8	20.73	20	3.6		21.63	20	8.1		22.98	20	14.9					
C20	20	1	0	21.48	20	7.4	23.75	20	18.8		21.47	20	7.3		23.27	20	16.4					
C22	20	1	0	21.4	20	7.0	23.35	20	16.8		21.6	20	8.0		23.35	20	16.8					
C24	20	1	0	21.48	20	7.4	23.43	20	17.2		21.78	20	8.9		23.38	20	16.9					
C26	20	1	0	21.75	20	8.8	23.71	20	18.6		22.02	20	10.1		23.67	20	18.4					
C28	20	1	0	22.33	20	11.7	24.32	20	21.6*		22.32	20	11.6		23.95	20	19.8					
C30	20	1	0	23.13	20	15.6	25.21	20	26.1*		22.6	20	13.0		24.1	20	20.5*					
C32	20	1	0	24.24	20	21.2*	26.09	20	30.5*		22.59	20	13.0		25.52	20	27.6*					
C34	20	1	0	23.33	20	16.7	25.26	20	26.3*		21.53	20	7.7		22.78	20	13.9					
C36	20	1	0	21.95	20	9.8	23.6	20	18.0		20.37	20	1.9		21.3	20	6.5					
C40	20	1	0	19.77	20	1.1	21.51	20	7.6		19.46	20	2.7		19.9	20	0.5					
C44	20	1	0	16.32	20	18.4	19.76	20	1.2													
Chlorobenzene	20	1	0	16.75	20	16.3	18.45	20	7.7		17.47	20	12.7		19.1	20	4.5					
O-Terphenyl	20	1	0	21.27	20	6.4	23.95	20	19.8		22.07	20	10.4		23.98	20	19.9					
Average Difference	20	1	0			12.6			14.8				9.9				14.5					

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8015D

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
Data File:												
Calibration Name:												
Calibration Date/Time												
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.16	(8.12 - 8.20)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.14	(8.10 - 8.18)		
Diesel.Range.Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD28235-001
Client Id: MW-001
Data File: 13M23370.D
Analysis Date: 01/11/22 17:46
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 625380 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23370.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 17:46
Operator : SG
Sample : AD28235-001
Misc : A,5ML!4
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 21:00:09 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

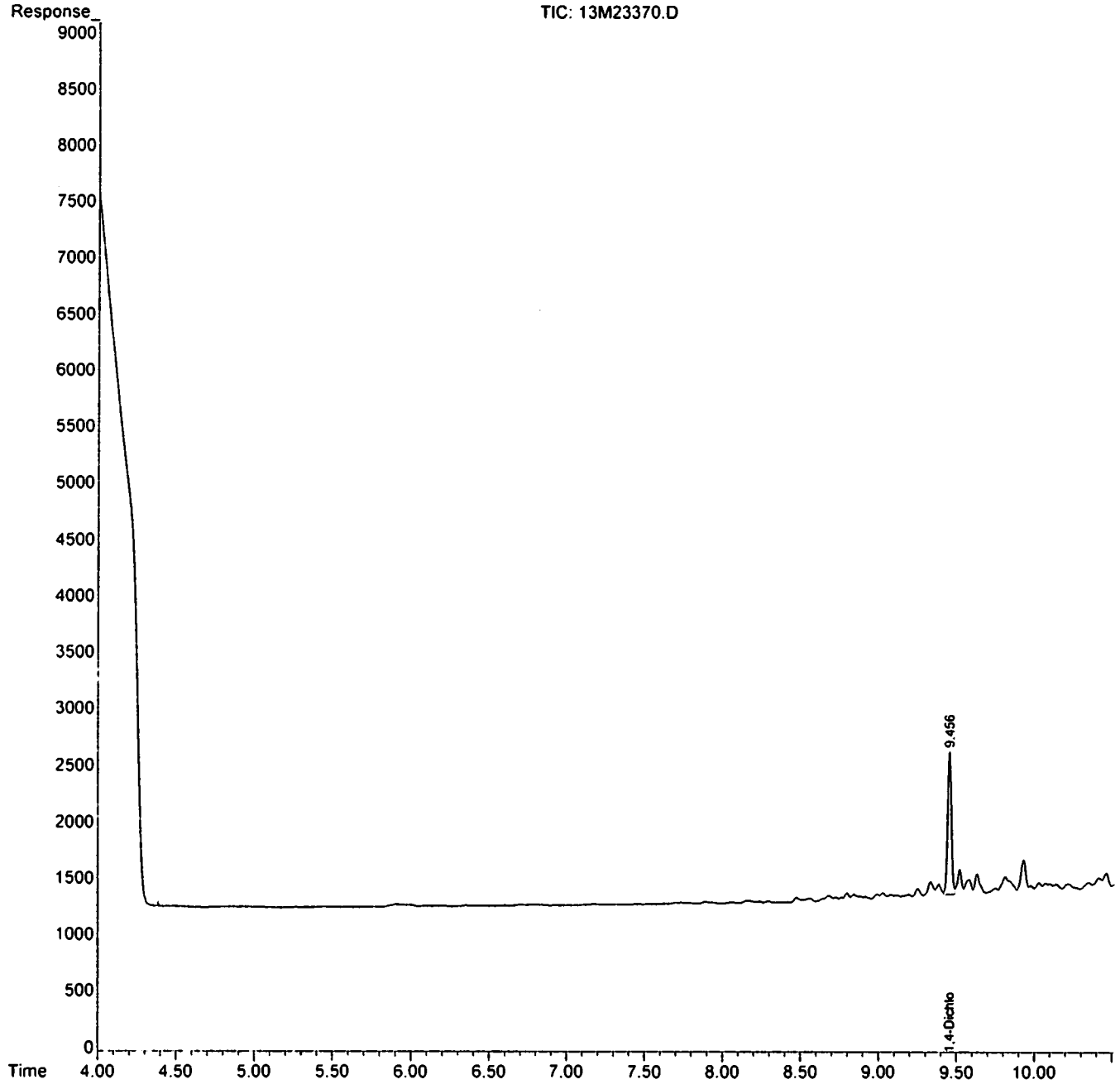
	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.457	21594	26.233	
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23370.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 17:46
Operator : SG
Sample : AD28235-001
Misc : A,5ML!4
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 21:00:09 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD28235-002
Client Id: MW-002
Data File: 13M23371.D
Analysis Date: 01/11/22 18:04
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 625380

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23371.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 18:04
Operator : SG
Sample : AD28235-002
Misc : A,5ML!4
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 21:00:26 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

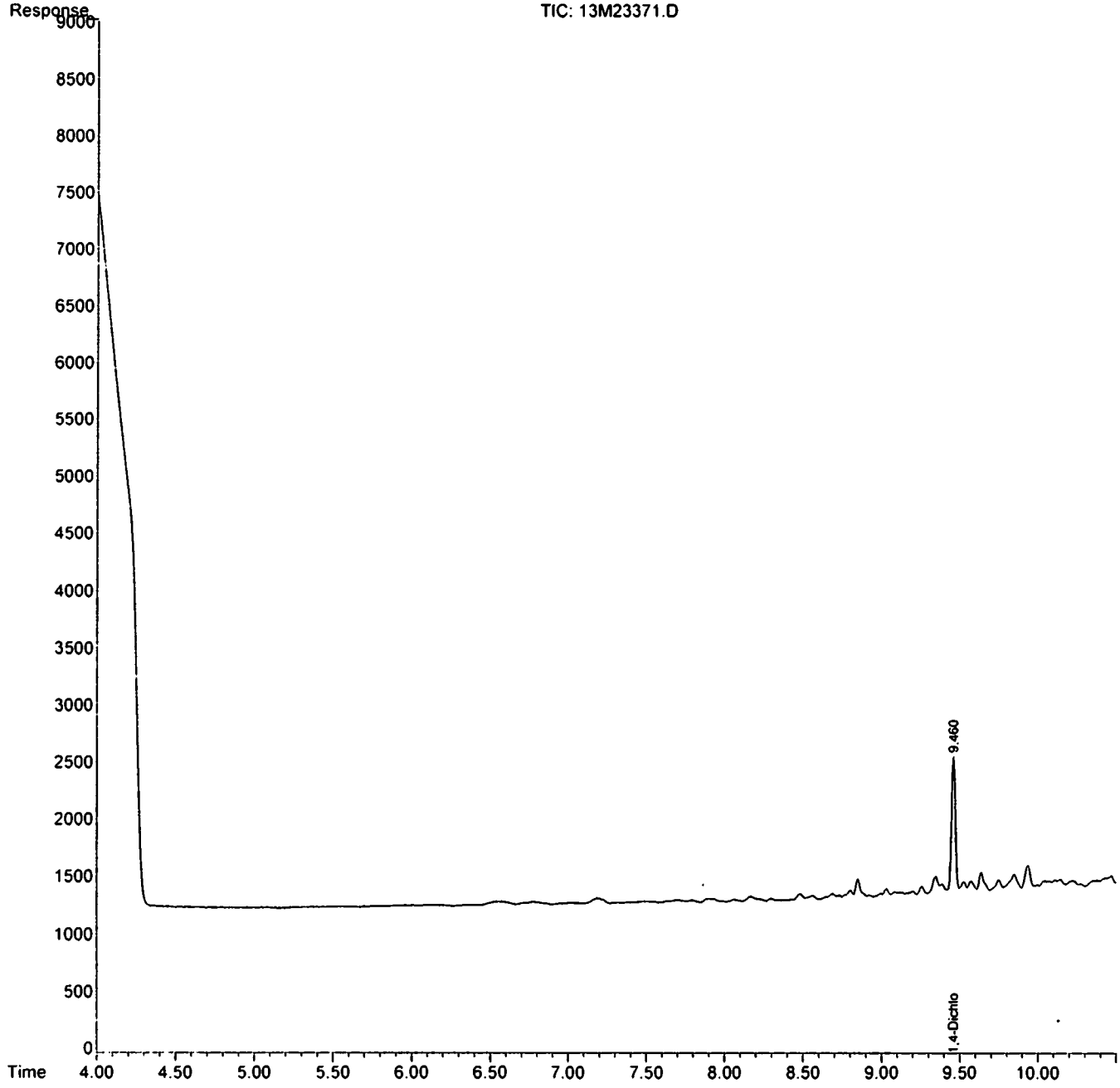
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.460	19666	23.891	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23371.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 18:04
Operator : SG
Sample : AD28235-002
Misc : A,5ML!4
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 21:00:26 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD28235-003
Client Id: MW-004
Data File: 13M23372.D
Analysis Date: 01/11/22 18:20
Date Rec/Extracted: 01/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 625380 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23372.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 18:20
Operator : SG
Sample : AD28235-003
Misc : A,5ML!4
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 21:00:41 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

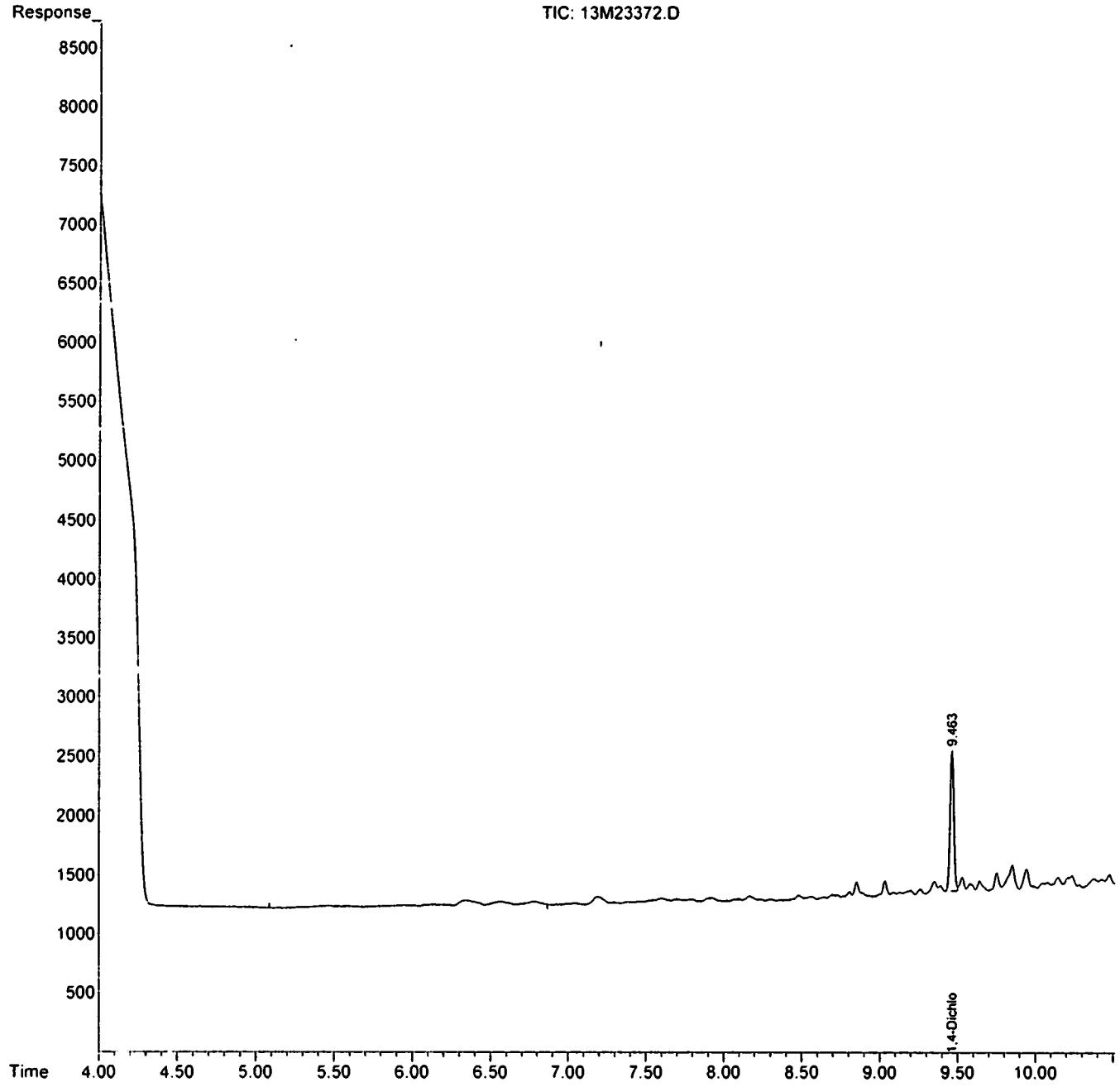
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.464	20210	24.551	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23372.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 18:20
Operator : SG
Sample : AD28235-003
Misc : A,5ML!4
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 19 21:00:41 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M23367.D
Analysis Date: 01/11/22 16:56
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 625380

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23367.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 16:56
Operator : SG
Sample : DAILY BLANK
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 11 19:47:54 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

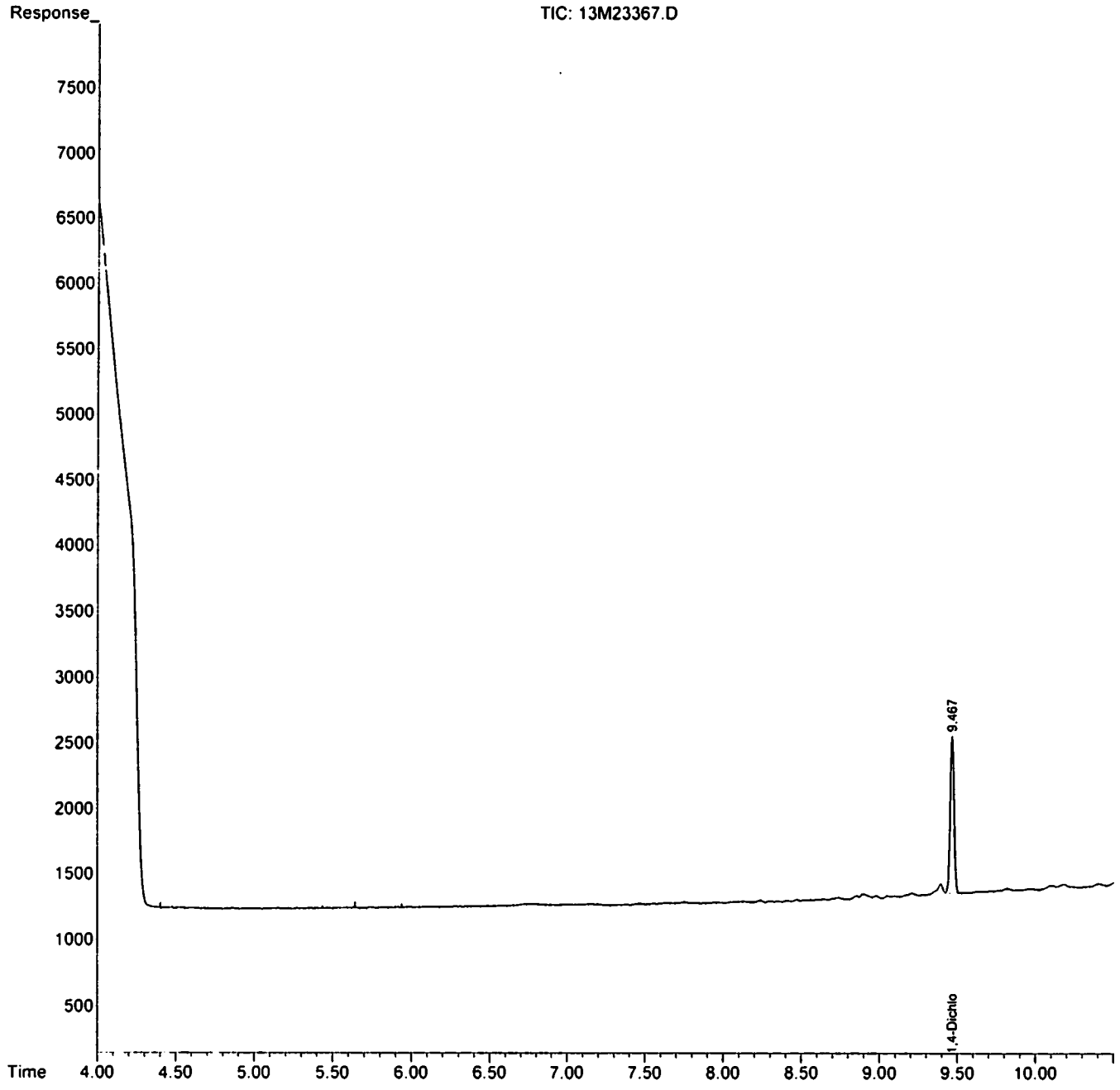
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.467	20850	25.328	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2022\GC_13\Data\01-11-22\
Data File : 13M23367.D
Signal(s) : FID1A.CH
Acq On : 11 Jan 2022 16:56
Operator : SG
Sample : DAILY BLANK
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 11 19:47:54 2022
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G1124.M
Quant Title : @GC_13,ug,8015
QLast Update : Wed Nov 24 13:21:44 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M23367.D	DAILY BLANK	A	01/11/22 16:56	1		84					
13M23370.D	AD28235-001	A	01/11/22 17:46	1		87					
13M23371.D	AD28235-002	A	01/11/22 18:04	1		80					
13M23372.D	AD28235-003	A	01/11/22 18:20	1		82					
13M23373.D	MBS99277	A	01/11/22 18:38	1		108					
13M23375.D	AD28235-001(MS)	A	01/11/22 19:11	1		110					
13M23376.D	AD28235-001(MSD)	A	01/11/22 19:29	1		116					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
QC Batch: MBS99277

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23373.D	MBS99277	1/11/2022 6:38:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2144.88	0	2000	107	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS99277

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23375.D	AD28235-001(MS)	1/11/2022 7:11:00 PM
Non Spike(If applicable):	13M23370.D	AD28235-001	1/11/2022 5:46:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1874.07	0	2000	94	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23376.D	AD28235-001(MSD)	1/11/2022 7:29:00 PM
Non Spike(If applicable):	13M23370.D	AD28235-001	1/11/2022 5:46:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1893.73	0	2000	95	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA

QC Batch: MBS99277

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M23376.D	AD28235-001(MSD)	1/11/2022 7:29:00 PM
Duplicate(If applicable):	13M23375.D	AD28235-001(MS)	1/11/2022 7:11:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	1893.73	1874.07	1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M23367.D
Matrix: Aqueous

Blank Analysis Date: 01/11/22 16:56
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD28235-001	13M23370.D	01/11/22 17:46
AD28235-002	13M23371.D	01/11/22 18:04
AD28235-003	13M23372.D	01/11/22 18:20
AD28235-001(MSD	13M23376.D	01/11/22 19:29
AD28235-001(MS)	13M23375.D	01/11/22 19:11
MBS99277	13M23373.D	01/11/22 18:38

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23111.D	BLK	11/24/21 07:34	Aqueous	13M2315	9.4811	0.3667		
13M23114.D	CAL @ 250 PPB	11/24/21 08:24	Aqueous	13M2312	9.4798	0.2313		
13M23116.D	CAL @ 500 PPB	11/24/21 08:57	Aqueous	13M2312	9.4683	0.1099		
13M23118.D	CAL @ 750 PPB	11/24/21 09:30	Aqueous	13M2312	9.4693	0.1205		
13M23120.D	CAL @ 1000 PPB	11/24/21 10:04	Aqueous	13M2312	9.4613	0.0359		
13M23124.D	CAL @ 1500 PPB	11/24/21 11:35	Aqueous	13M2312	9.4803	0.2366		
13M23126.D	CAL @ 2000 PPB	11/24/21 12:08	Aqueous	13M2312	9.4597	0.019		
13M23128.D	CAL @ 4000 PPB	11/24/21 12:41	Aqueous	13M2312	9.4579	0		
13M23131.D	ICV	11/24/21 13:31	Aqueous	13M2312	9.4569	0.0106		
13M23134.D	DAILY BLANK	11/24/21 14:21	Methanol	13M2312	9.4528	0.0539		
13M23135.D	DAILY BLANK	11/24/21 14:37	Aqueous	13M2312	9.4491	0.0931		
13M23136.D	STD	11/24/21 14:58	Aqueous	13M2312	9.4595	0.0169		
13M23137.D	BLK	11/24/21 15:14	Aqueous	13M2312	9.4511	0.0719		
13M23138.D	BLK	11/24/21 15:30	Methanol	13M2312	9.4466	0.1195		
13M23139.D	BLK	11/24/21 15:47	Methanol	13M2312	9.4414	0.1746		
13M23140.D	AD27002-003(80uL)	11/24/21 16:03	Methanol	13M2312	9.4461	0.1248		
13M23141.D	BLK	11/24/21 16:20	Methanol	13M2312	9.4476	0.109		
13M23142.D	BLK	11/24/21 16:36	Methanol	13M2312	9.4552	0.0286		
13M23143.D	AD27002-003(400uL)	11/24/21 16:53	Methanol	13M2312	9.4609	0.0317		
13M23144.D	BLK	11/24/21 17:09	Methanol	13M2312	9.4552	0.0286		
13M23145.D	MBS97290	11/24/21 17:26	Methanol	13M2312	9.4541	0.0402		
13M23146.D	MBS97291	11/24/21 17:42	Aqueous	13M2312	9.4548	0.0328		
13M23147.D	AD27503-008(MS)	11/24/21 17:59	Methanol	13M2312	9.4481	0.1037		
13M23148.D	AD27503-008(MSD)	11/24/21 18:15	Methanol	13M2312	9.4456	0.1301		
13M23149.D	BLK	11/24/21 18:32	Aqueous	13M2312	9.4479	0.1058		
13M23150.D	AD27564-001	11/24/21 18:48	Methanol	13M2312	9.4461	0.1248		
13M23151.D	BLK	11/24/21 19:05	Aqueous	13M2312	9.4491	0.0931		
13M23152.D	MBS97292	11/24/21 19:21	Methanol	13M2312	9.4473	0.1121		
13M23153.D	CAL @ 2000 PPB	11/24/21 19:37	Aqueous	13M2312	9.4464	0.1217		
13M23154.D	2000 PPB	11/24/21 19:54	Aqueous	13M2315	9.4500	0.0381		
13M23155.D	BLK	11/24/21 20:11	Aqueous	13M2315	9.4477	0.0138		
13M23156.D	BLK	11/24/21 20:28	Aqueous	13M2315	9.4474	0.0106		
13M23157.D	BLK	11/24/21 20:45	Aqueous	13M2315	9.4486	0.0233		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M23363.D	CAL @ 2000PPB	01/11/22 15:48	Aqueous	13M2336	9.4678	0		
13M23367.D	DAILY BLANK	01/11/22 16:56	Aqueous	13M2336	9.4673	0.0053		
13M23368.D	DAILY BLANK	01/11/22 17:13	Methanol	13M2336	9.4639	0.0412		
13M23369.D	AD28107-018	01/11/22 17:30	Aqueous	13M2336	9.4497	0.1914		
13M23370.D	AD28235-001	01/11/22 17:46	Aqueous	13M2336	9.4566	0.1184		
13M23371.D	AD28235-002	01/11/22 18:04	Aqueous	13M2336	9.4603	0.0792		
13M23372.D	AD28235-003	01/11/22 18:20	Aqueous	13M2336	9.4637	0.0433		
13M23373.D	MBS99277	01/11/22 18:38	Aqueous	13M2336	9.4644	0.0359		
13M23374.D	MBS99278	01/11/22 18:54	Methanol	13M2336	9.4610	0.0718		
13M23375.D	AD28235-001(MS)	01/11/22 19:11	Aqueous	13M2336	9.4586	0.0972		
13M23376.D	AD28235-001(MSD)	01/11/22 19:29	Aqueous	13M2336	9.4602	0.0803		
13M23378.D	CAL @ 2000 PPB	01/11/22 20:02	Aqueous	13M2336	9.4578	0.1057		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2011002 0253

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M23128.	CAL @ 4000 PPB	11/24/21 12:41	2	13M23126.	CAL @ 2000 PPB	11/24/21 12:08
3	13M23124.	CAL @ 1500 PPB	11/24/21 11:35	4	13M23120.	CAL @ 1000 PPB	11/24/21 10:04
5	13M23118.	CAL @ 750 PPB	11/24/21 09:30	6	13M23116.	CAL @ 500 PPB	11/24/21 08:57
7	13M23114.	CAL @ 250 PPB	11/24/21 08:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	0.1152	0.0918	0.0778	0.0779	0.0742	0.0704	0.0686	----	0.0823	9.46	-1	-1	20	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0009	0.0008	0.0008	0.0010	0.0009	0.0009	0.0008	----	0.000910	5.44	0.992	0.996	8.8	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0015	0.0013	0.0014	0.0014	0.0014	0.0016	----	0.00150	9.27	0.997	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0784	0.0756	0.0792	0.0709	0.0701	0.0597	0.0754	----	0.0728	8.51	0.999	0.999	9.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.5 Avg Rsd Col 2: -1

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte ,>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M23363.D			13M23378.D											
Method:			8015			8015											
Calibration Name:			CAL @ 2000PPB			CAL @ 2000 PPB											
Calibration Date/Time			01/11/22 15:48			01/11/22 20:02											
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1719	2000	14.0	2097	2000	4.8									

Flags/Notes: ** - Values outside of limits for this column/run*

Metal Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28235-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-001	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	1/10/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc.	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	3.2	1	50	100	01/11/22	977061122ANEW		22		MSMS3_7700SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	01/11/22	977061122ANEW		22		MSMS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	01/11/22	977061122ANEW		22		MSMS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28235-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-001	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	1/10/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	50	ND	1	50	50	01/12/22	97706	W28088A2	17	P	PEICP2A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28235-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-002	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	1/10/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	01/11/22	977061	122ANEW	32	MS	MS3_7700SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	01/11/22	977061	122ANEW	32	MS	MS3_7700SWA
7439-92-1	Lead	3.0	3.4	1	50	100	01/11/22	977061	122ANEW	32	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28235-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-002	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	1/10/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	50	ND	1	50	50	01/12/22	97706	W28088A2	26	P	PEICP2A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28235-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-004	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	1/10/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	01/11/22	977061122ANEW		33	MS	MS3_7700SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	01/11/22	977061122ANEW		33	MS	MS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	01/11/22	977061122ANEW		33	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD28235-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-004	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	1/10/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	Mi	Instr
7440-47-3	Chromium	50	ND	1	50	50	01/12/22	97706	W28088A2	27	P	PEICP2A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 97706 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 97706 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-36-0	Antimony	1.5	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-38-2	Arsenic	1.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-39-3	Barium	2.5	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-41-7	Beryllium	0.50	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-43-9	Cadmium	1.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-70-2	Calcium	250	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-47-3	Chromium	1.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-48-4	Cobalt	1.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7439-89-6	Iron	150	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7439-92-1	Lead	1.5	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7439-95-4	Magnesium	250	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7439-96-5	Manganese	3.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7439-98-7	Molybdenum	1.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-02-0	Nickel	1.5	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-09-7	Potassium	250	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7782-49-2	Selenium	5.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-23-5	Sodium	250	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-28-0	Thallium	1.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA
7440-62-2	Vanadium	1.0	ND	1	50	100	01/11/22	97706	1122ANEW	19	MS	S3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 97706 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 97706 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7440-39-3	Barium	25	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7440-70-2	Calcium	2500	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7440-47-3	Chromium	25	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7440-50-8	Copper	25	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7439-89-6	Iron	150	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7439-95-4	Magnesium	2500	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7439-96-5	Manganese	20	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	01/13/22	97706 H28088SW		11	CV	HGCV4A
7440-02-0	Nickel	25	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7440-09-7	Potassium	2500	ND	1	50	50	01/13/22	97706SW28088C4		15	P	PEICPRAD4A
7440-22-4	Silver	10	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7440-23-5	Sodium	2500	ND	1	50	50	01/13/22	97706SW28088C4		15	P	PEICPRAD4A
7440-62-2	Vanadium	25	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A
7440-66-6	Zinc	25	ND	1	50	50	01/12/22	97706SW28088A2		14	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 01/12/22
Data File: SW28088A2
Prep Batch: 97706
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 2011002

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-360409-5	Rec	CCV V-360409-12	Rec	CCV V-360409-23	Rec	CCV V-360409-28	Rec	CCV V-360409-39	Rec	CCV V-360409-44	Rec		Rec		Rec
Aluminum	5/5	5 12026	102	5 06197	101	4.99967	100	5.05079	101	5.08941	102	5.04514	101				
Barium	.5/.5	0.50634	101	0.49875	100	0.49032	98	0.49832	100	0.50094	100	0.49562	99				
Calcium	50/50	51.70760	103	51.64850	103	50.33580	101	50.81680	102	50.90870	102	50.75350	102				
Chromium	.5/.5	0.50426	101	0.49694	99	0.48838	98	0.49614	99	0.49850	100	0.49397	99				
Copper	.5/.5	0.51221	102	0.50617	101	0.51130	102	0.51883	104	0.52105	104	0.51794	104				
Iron	5/5	5.06425	101	4.99489	100	4.85740	97	4.94231	99	4.97219	99	4.91052	98				
Magnesium	50/50	51 73810	103	51.67190	103	49.15290	98	49.77540	100	49.75550	100	49.47760	99				
Manganese	.5/.5	0.50914	102	0 50151	100	0.49281	99	0.50183	100	0.50417	101	0.49871	100				
Nickel	.5/.5	0 50744	101	0 50028	100	0.48235	96	0.49140	98	0.49319	99	0.48801	98				
Silver	0.1/0.1	0.09665	97	0.09546	95	0.09524	95	0.09675	97	0.09745	97	0.09648	96				
Vanadium	.5/.5	0.49749	99	0.49026	98	0.48605	97	0.49358	99	0.49684	99	0.49236	98				
Zinc	.5/.5	0 50828	102	0 49979	100	0.46974	94	0.47999	96	0.48135	96	0.47458	95				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 01/12/22
Data File: SW28088A2
Prep Batch: 97706
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 2011002

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-360415	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-360412	Recovery	Low Limit	High Limit
Magnesium	5.0	5.07933	102	80	120	500	483.207	97	90	110
Aluminum	0 2	0.159956	80	80	120	500	442.585	89 a	90	110
Arsenic	0 04	0 0409682	102	80	120	10	10.3731	104	90	110
Boron	0 2	0.210742	105	80	120	5	-0.0070770	-.14 a	90	110
Barium	0.05	0.0510546	102	80	120	10	10.1704	102	90	110
Beryllium	0 012	0.0122082	102	80	120	5	5.02297	100	90	110
Calcium	5 0	4 99581	100	80	120	500	477.533	96	90	110
Cadmium	0.012	0 0136297	114	80	120	5	5 39335	108	90	110
Cerium	2	0 219799	110	80	120	25	-0.0556507	-.22 a	90	110
Cobalt	0 02	0.0203122	102	80	120	5	4.87773	98	90	110
Chromium	0 05	0.0499621	100	80	120	10	9.75630	98	90	110
Copper	0.05	0 0505105	101	80	120	10	10.3725	104	90	110
Silver	0 02	0 0206262	103	80	120	1	1.09587	110	90	110
Potassium	NA	11.9055		80	120	200	1100.77	550 a	90	110
Zinc	0.05	0.0512367	102	80	120	10	9.98433	100	90	110
Manganese	0 04	0.0410510	103	80	120	10	9.80238	98	90	110
Molybdenum	0.02	0.0206118	103	80	120	10	9.84153	98	90	110
Sodium	5 0	5.09828	102	80	120	1000	1010.54	101	90	110
Nickel	0.05	0.0507324	101	80	120	10	9.74889	97	90	110
Lead	0.05	0.0531284	106	80	120	10	9.97549	100	90	110
Antimony	0.05	0.0529380	106	80	120	5	5.23233	105	90	110
Selenium	0 05	0 0484470	97	80	120	5	5.24134	105	90	110
Silicon	.2	0.212837	106	80	120	25	0.353341	1.4 a	90	110
Tin	0 05	0 0501551	100	80	120	10	9.75519	98	90	110
Titanium	0 05	0 0508392	102	80	120	10	9.90904	99	90	110
Thallium	0 05	0 0502862	101	80	120	5	4.61481	92	90	110
Vanadium	0.05	0 0487545	98	80	120	10	9.67353	97	90	110
Iron	0 3	0 294616	98	80	120	200	188.285	94	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 01/12/22
Data File: SW28088A2
Prep Batch: 97706
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 2011002

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-360404-6	CCB V-360404-13	CCB V-360404-24	CCB V-360404-29	CCB V-360404-40	CCB V-360404-45	MB 97706 (1)-14
Aluminum	.1 U	.2U	.2U	.2U	.2 U	.2U	.1U
Barium	.025 U	.05U	.05U	.05U	.05 U	.05U	.025U
Calcium	2.5 U	5U	5U	5U	5 U	5U	2.5U
Chromium	.025 U	.05U	.05U	.05U	.05 U	.05U	.025U
Copper	.025 U	.05U	.05U	.05U	.05 U	.05U	.025U
Iron	.15 U	.3U	.3U	.3U	.3 U	.3U	.15U
Magnesium	2.5 U	5U	5U	5U	5 U	5U	2.5U
Manganese	.02 U	.04 U	.04 U	.04 U	.04 U	.04U	.02U
Nickel	.025 U	.05U	.05U	.05U	.05 U	.05U	.025U
Silver	.01 U	.02 U	.02U	.02U	.02 U	.02U	.01U
Vanadium	.025 U	.05U	.05U	.05U	.05 U	.05U	.025U
Zinc	.025 U	.05U	.05U	.05U	.05 U	.05U	.025U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 01/12/22
Data File: SW28088A2
Prep Batch: 97706
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 2011002

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-360410-11	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	468.772	94							
Barium	0	U								
Calcium	500	487.498	97							
Chromium	0	U								
Copper	0	U								
Iron	200	187.494	94							
Magnesium	500	494.78	99							
Manganese	0	U								
Nickel	0	U								
Silver	0	U								
Vanadium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97706

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 97706

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97706	1	SW28088A	15	0.4825	0.50	96		80	120

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 97706

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97706	1	SW28088A	16	0.4795	0.50	96		80	120

TxtQcType: MS Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97706	1	SW28088A	19	SW28088A	17	0.4622	0.05U	0.50	92		75	125

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	97706	1	SW28088A	20	SW28088A	17	0.4695	0.05U	0.50	94		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97706

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCSW 97706

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97706	1	A011122A	20	238.0060	250	95		80	120
Cadmium	97706	1	A011122A	20	238.8210	250	96		80	120
Lead	97706	1	A011122A	20	224.8090	250	90		80	120

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 97706

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97706	1	A011122A	21	234.3090	250	94		80	120
Cadmium	97706	1	A011122A	21	236.3190	250	95		80	120
Lead	97706	1	A011122A	21	222.0590	250	89		80	120

TxtQcType: MS Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97706	1	A011122A	25	A011122A	22	243.5180	1.5890	250	97		75	125
Cadmium	97706	1	A011122A	25	A011122A	22	236.5620	1U	250	95		75	125
Lead	97706	1	A011122A	25	A011122A	22	220.4960	1.5U	250	88		75	125

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	97706	1	A011122A	26	A011122A	22	234.2890	1.5890	250	93		75	125
Cadmium	97706	1	A011122A	26	A011122A	22	226.7230	1U	250	91		75	125
Lead	97706	1	A011122A	26	A011122A	22	211.1760	1.5U	250	84		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97706

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AD28235-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	SW28088A	21	SW28088A	17	0.5076	0.05U	.5	102		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 97706

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AD28235-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	A011122A	27	A011122A	22	55.0640	1.5890	50	107		75	125
Cadmium	1	A011122A	27	A011122A	22	51.2750	1U	50	103		75	125
Lead	1	A011122A	27	A011122A	22	50.1040	1.5U	50	100		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 97706

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 97706

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97706	SW28088A	16	SW28088A	15	0.4795	0.4825	.62	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97706	SW28088A	18	SW28088A	17	0.05U	0.05U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Chromium	97706	SW28088A	20	SW28088A	19	0.4695	0.4622	1.6	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Chromium	97706	SW28088A	22	SW28088A	17	5	-0.0001	0.0021	---	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 97706

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 97706

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	97706	A011122A	21	A011122A	20	234.3090	238.0060	1.6	20
Cadmium	97706	A011122A	21	A011122A	20	236.3190	238.8210	1.1	20
Lead	97706	A011122A	21	A011122A	20	222.0590	224.8090	1.2	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	97706	A011122A	23	A011122A	22	1.6580	1.5890	4.3	20
Cadmium	97706	A011122A	23	A011122A	22	1U	1U	---	20
Lead	97706	A011122A	23	A011122A	22	1.5U	1.5U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	97706	A011122A	26	A011122A	25	234.2890	243.5180	3.9	20
Cadmium	97706	A011122A	26	A011122A	25	226.7230	236.5620	4.2	20
Lead	97706	A011122A	26	A011122A	25	211.1760	220.4960	4.3	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD28235-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	97706	A011122A	24	A011122A	22	5	0.3300	1.5890	3.8		20
Cadmium	97706	A011122A	24	A011122A	22	5	0.0010	0.0150	---		20
Lead	97706	A011122A	24	A011122A	22	5	0.3360	0.7340	129	c	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: (3010A) 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 28088 Analyst: KJ

QC Number: 97706 Prep Date: 1/11/22

Matrix: sw846 (6010,6020) Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	10mL	20mL		–	
LCS						–	
LCSD						–	
1. 28135 -001							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate -001							
MR -001							
MS -001							Balance used: N/A
~~MSD~~ ~~-0~~							Pipettes used: 149, 153
2. 28209 -001							
3. 28235 -002							Hot Block used: 9
4. 1 -003							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.5° C (90-95° C) Start Time: 1:25PM End Time: 3:25PM

	Volume mL	Lot #
LCS, LCSD	0.25mL	V- 14176, 14277, 358096
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 14276, 14277, 358096
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	3.0mL	V- 14296
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5.0mL	V- 359993

Relinquished By KJ Date 1/11/22

Received By [illegible] Date 1/11/22

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP2A\SW28088A2.txt

Analysis Date: 01/12/22 **Instrument** PEICP2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-360404	1	CAL	15:02	1							V-360404(ICB/CCB)
CALST2 V-360415	1	CAL	15:06	2							V-360415(LLICV/LLCCV sq)
CALST3 V-360405	1	CAL	15:10	3							V-360405(ICS3 - Middle Std)
CALST4 V-360406	1	CAL	15:14	4							V-360406(ICS4 High std)
ICV V-360409	1	ICV	15:19	5							V-360409(CCV)
ICB V-360404	1	ICB	15:23	6							V-360404(ICB/CCB)
LLICV V-360415	1	LLICV	15:27	7		AQUEO	AQUEO	SW846	97706		V-360415(LLICV/LLCCV sq)
ICS3 V-360405	1	ICS	15:31	8							V-360405(ICS3 - Middle Std)
LRS V-360412	1	LRS	15:35	9		AQUEO	AQUEO	SW846	97706		V-360412(LRS)
RINSE	1	SMP	15:41	10		AQUEO	AQUEO	SW846	97706		0
ICSA V-360410	1	ICSA	15:44	11							V-360410(ICSA)
CCV V-360409	1	CCV	15:50	12							V-360409(CCV)
CCB V-360404	1	CCB	15:55	13							V-360404(ICB/CCB)
MB 97706 (1)	1	MB	15:58	14		AQUEO	AQUEO	SW846	97706		0
LCS 97706	1	LCS	16:02	15		AQUEO	AQUEO	SW846	97706		0
LCS MR 97706	1	LCS	16:07	16		AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	SMP	16:11	17	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	MR	16:15	18	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	MS	16:19	19	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	MSD	16:24	20	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	PS	16:28	21	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
AD28235-001	5	SD	16:33	22	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
CCV V-360409	1	CCV	16:37	23							V-360409(CCV)
CCB V-360404	1	CCB	16:41	24							V-360404(ICB/CCB)
AD28208-001	1	SMP	16:45	25	MET-TAL6010W	AQUEO	AQUEO	SW846	97706		0
AD28235-002	1	SMP	16:49	26	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
AD28235-003	1	SMP	16:53	27	MET-RCRA-S	AQUEO	AQUEO	SW846	97706		0
CCV V-360409	1	CCV	16:57	28							V-360409(CCV)
CCB V-360404	1	CCB	17:02	29							V-360404(ICB/CCB)
MB 97711 (1)	1	MB	17:05	30		AQUEO	AQUEO	SW846	97711		0
LCS 97711	1	LCS	17:09	31		AQUEO	AQUEO	SW846	97711		0
LCS MR 97711	1	LCS	17:13	32		AQUEO	AQUEO	SW846	97711		0
AD28251-001	1	SMP	17:18	33	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
AD28251-001	1	MR	17:22	34	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
AD28251-001	1	MS	17:26	35	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
AD28251-001	1	MSD	17:30	36	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
AD28251-001	1	PS	17:34	37	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
AD28251-001	5	SD	17:38	38	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
CCV V-360409	1	CCV	17:42	39							V-360409(CCV)
CCB V-360404	1	CCB	17:46	40							V-360404(ICB/CCB)
AD28251-002	1	SMP	17:50	41	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
AD28251-003	1	SMP	17:54	42	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
AD28251-004	1	SMP	17:58	43	MET-7-SOIL	AQUEO	AQUEO	SW846	97711		0
CCV V-360409	1	CCV	18:03	44							V-360409(CCV)
CCB V-360404	1	CCB	18:07	45							V-360404(ICB/CCB)

Comments/Reviewedby:

CARMELA
192.168.1.89 1/13/2022 9:39:39 AM

OK
ALL REPORTED
Na,K NOT REPORTED

1/19/22

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\A011122ANEW.txt

Analysis Date: 01/11/22 **Instrument:** MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	18:50	1		AQUEO	AQUEO	SW846	97706		0
RINSE	1	NA	18:54	2		AQUEO	AQUEO	SW846	97706		0
CalBlk V-364979	1	ISBLK	18:59	3		SOIL	SOIL				V-364979(Cal Blk WARNING)
CalStd1 V-364980	1	CAL	19:03	4							V-364980(Cal Std-1 WARNING)
CalStd2 V-364981	1	CAL	19:08	5							V-364981(Cal Std-2 WARNING)
CalStd3 V-364982	1	CAL	19:12	6							V-364982(Cal Std-3 WARNING)
CalStd4 V-364983	1	CAL	19:17	7							V-364983(Cal Std-4 WARNING)
CalStd5 V-364984	1	CAL	19:21	8							V-364984(Cal Std-5 WARNING)
ICV V-364985	1	ICV	19:26	9							V-364985(ICV WARNING)
LLICV V-364992	1	LLICV	19:30	10		AQUEO	AQUEO	SW846	97706		V-364992(LL-ICV/CCV AQ. WARNING)
ICB V-364986	1	ICB	19:34	11							V-364986(ICB/CCB WARNING)
ICSA V-364987	1	ICSA	19:39	12							V-364987(ICSA WARNING)
RINSE	1	NA	19:43	13		AQUEO	AQUEO	SW846	97706		0
LRS V-364988	1	LRS	19:48	14		AQUEO	AQUEO	SW846	97706		V-364988(LRS WARNING)
RINSE	1	NA	19:52	15		AQUEO	AQUEO	SW846	97706		0
RINSE	1	NA	19:57	16		AQUEO	AQUEO	SW846	97706		0
CCV V-364989	1	CCV	20:01	17							V-364989(CCV WARNING)
CCB V-364986	1	CCB	20:05	18							V-364986(ICB/CCB WARNING)
MB 97706	1	MB	20:10	19		AQUEO	AQUEO	SW846	97706		0
LCSW 97706	1	LCS	20:14	20		AQUEO	AQUEO	SW846	97706		0
LCS MR 97706	1	LCS	20:18	21		AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	SMP	20:23	22	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	MR	20:27	23	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
AD28235-001	5	SD	20:31	24	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	MS	20:36	25	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	MSD	20:40	26	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
AD28235-001	1	PS	20:44	27	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
RINSE	1	NA	20:48	28		AQUEO	AQUEO	SW846	97706		0
CCV V-364989	1	CCV	20:53	29							V-364989(CCV WARNING)
CCB V-364986	1	CCB	20:57	30							V-364986(ICB/CCB WARNING)
AD28208-001	1	SMP	21:02	31	MET-TAL6020W	AQUEO	AQUEO	SW846	97706		0
AD28235-002	1	SMP	21:06	32	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
AD28235-003	1	SMP	21:11	33	MET-RCRA-MS	AQUEO	AQUEO	SW846	97706		0
RINSE	1	NA	21:15	34		AQUEO	AQUEO	SW846	97706		0
CCV V-364989	1	CCV	21:20	35							V-364989(CCV WARNING)
CCB V-364986	1	CCB	21:24	36							V-364986(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.23 1/12/2022 9:54:06 AM

Run ok. Report As, Be, Cd, Co, Pb, Sb, Se, Tl. PC.

e 1/17/22

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 250 1/10 2nd

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

2011002 0277

TuneID: 1

Batch/FileID: A011122AN Sample ID: CalBlk V-364979 Sample Date 01/11/22 Sample Time: 18:59

IS ID	Are	Area Limit		
Ho-1	3417760.68	2392432.476	-	4443088.884
In-1	2943190.55	2060233.385	-	3826147.715
Sc-1	1935643.55	1354950.485	-	2516336.615
Tb-1	3586047.72	2510233.404	-	4661862.036

QcType	txtSamId:	Po	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-364979	3	3417760.	2943190.	1935643.	3586047.				
SMP	RINSE	1	3311059.	2865868.	1864582.	3471312.				
SMP	RINSE	2	3304223.	2833263.	1848622.	3473312.				
CAL	CalStd1 V-36498	4	3419617.	2949681.	1941624.	3610211.				
CAL	CalStd2 V-36498	5	3429077.	2935123.	1930929.	3575974.				
CAL	CalStd3 V-36498	6	3433213.	2954056.	1936124.	3608586.				
CAL	CalStd4 V-36498	7	3442791.	2908092.	1917891.	3599272.				
CAL	CalStd5 V-36498	8	3433981.	2891968.	1915950.	3605731.				
ICV	ICV V-364985	9	3429013.	2885438.	1886560.	3577058.				
LLICV	LLICV V-364992	10	3406964.	2877387.	1884337.	3583988.				
ICB	ICB V-364986	11	3420074.	2901960.	1883419.	3568571.				
ICSA	ICSA V-364987	12	3345929.	2657712.	1807653.	3500482.				
SMP	RINSE	13	3430616.	2933447.	1899689.	3617849.				
LRS	LRS V-364988	14	3360922.	2800255.	1874412.	3530657.				
SMP	RINSE	15	3385210.	2916834.	1882484.	3556067.				
SMP	RINSE	16	3338903.	2885265.	1877620.	3525682.				
CCV	CCV V-364989	17	3470206.	2956498.	1951614.	3627748.				
CCB	CCB V-364986	18	3491783.	2938546.	1913836.	3639533.				
MB	MB 97706	19	3550230.	2961348.	1935279.	3690444.				
LCS	LCSW 97706	20	3585089.	3046801.	1975870.	3760767.				
MR	LCS MR 97706	21	3572799.	3022917.	1956027.	3773042.				
SMP	AD28235-001	22	3520373.	2896198.	2005584.	3702063.				
MR	AD28235-001	23	3591189.	2917719.	2003779.	3745752.				
SD	AD28235-001	24	3528010.	2950050.	1943920.	3682402.				
MS	AD28235-001	25	3530144.	2919484.	1980443.	3675631.				
MSD	AD28235-001	26	3602871.	3034138.	2028591.	3771896.				
PS	AD28235-001	27	3561928.	2880533.	2001562.	3720711.				
SMP	RINSE	28	3485336.	2963160.	1910110.	3620878.				
CCV	CCV V-364989	29	3477196.	2907715.	1936048.	3641514.				
CCB	CCB V-364986	30	3472750.	2899864.	1884726.	3625571.				
SMP	AD28208-001	31	3514256.	2918062.	1935208.	3682645.				
SMP	AD28235-002	32	3574921.	2938561.	1970184.	3722599.				
SMP	AD28235-003	33	3534692.	2840063.	1948390.	3667769.				
SMP	RINSE	34	3449560.	2859524.	1843431.	3605082.				
CCV	CCV V-364989	35	3425369.	2872168.	1896777.	3604521.				
CCB	CCB V-364986	36	3418569.	2877189.	1871367.	3596930.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

2011002 0278

TuneID: 2

Batch/FileID: A011122AN Sample ID: CalBlk V-364979 Sample Date 01/11/22 Sample Time: 18:59

IS ID	Are	Area Limit		
Ho-2	2306826.62	1614778.634	-	2998874.606
In-2	816497.80	571548.46	-	1061447.14
Sc-2	96709.45	67696.615	-	125722.285
Tb-2	2338489.69	1636942.783	-	3040036.597

QcType	txtSamId:	Po	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-364979	3	2306826.	816497.8	96709.45	2338489.				
SMP	RINSE	1	2269604.	820669.4	96403.58	2309684.				
SMP	RINSE	2	2275610.	818306.3	96281.91	2310723.				
CAL	CalStd1 V-36498	4	2285722.	819794.6	97624.83	2330758.				
CAL	CalStd2 V-36498	5	2321478.	821903.6	97619.77	2356146.				
CAL	CalStd3 V-36498	6	2305060.	824957.3	96675.25	2342590.				
CAL	CalStd4 V-36498	7	2269960.	811323.9	95020.06	2313596.				
CAL	CalStd5 V-36498	8	2283651.	804002.2	95005.23	2325826.				
ICV	ICV V-364985	9	2277032.	795002.8	94005.91	2311862.				
LLICV	LLICV V-364992	10	2262330.	801547.8	92725.22	2338036.				
ICB	ICB V-364986	11	2287733.	805001.0	93970.71	2323334.				
ICSA	ICSA V-364987	12	2221973.	729706.5	90295.08	2247115.				
SMP	RINSE	13	2318145.	829191.1	96755.19	2384389.				
LRS	LRS V-364988	14	2245505.	767081.0	93766.99	2272478.				
SMP	RINSE	15	2312901.	831946.0	96864.65	2361476.				
SMP	RINSE	16	2307992.	823392.8	97328.68	2344959.				
CCV	CCV V-364989	17	2290671.	803833.0	95949.30	2350350.				
CCB	CCB V-364986	18	2302987.	808036.3	94674.54	2354474.				
MB	MB 97706	19	2267975.	771508.3	90302.92	2308529.				
LCS	LCSW 97706	20	2268277.	774785.9	91117.45	2303933.				
MR	LCS MR 97706	21	2264609.	775498.9	90974.71	2289822.				
SMP	AD28235-001	22	2234658.	734263.1	89057.70	2262784.				
MR	AD28235-001	23	2234806.	731284.5	89296.82	2271058.				
SD	AD28235-001	24	2268365.	784347.4	93464.37	2341914.				
MS	AD28235-001	25	2209858.	742219.9	88800.68	2216112.				
MSD	AD28235-001	26	2221748.	757879.4	90679.03	2251485.				
PS	AD28235-001	27	2242582.	733789.3	90706.64	2276107.				
SMP	RINSE	28	2313701.	806765.2	95054.41	2362462.				
CCV	CCV V-364989	29	2277444.	788885.2	93166.53	2324118.				
CCB	CCB V-364986	30	2276622.	785576.2	92316.76	2329416.				
SMP	AD28208-001	31	2258010.	750959.6	90217.69	2279759.				
SMP	AD28235-002	32	2236012.	735502.6	88936.38	2282135.				
SMP	AD28235-003	33	2194267.	709483.4	86956.58	2239713.				
SMP	RINSE	34	2276998.	781089.5	91379.44	2271375.				
CCV	CCV V-364989	35	2250804.	773755.9	90906.27	2300628.				
CCB	CCB V-364986	36	2247060.	776647.5	91654.90	2280143.				

* Indicates Internal Standard Area outside of limits

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: CSA WMATA 0444100

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei

Received Date: 1/12/2022

Report Date: 2/10/2022

Deliverables: MDE-R

Lab ID: AD28258

Lab Project No: 2011202

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 2011202

Sample Summary

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project #: 2011202

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD28258-001	TMW-015	Aqueous	1/10/2022	1/12/2022
AD28258-002	TMW-016	Aqueous	1/10/2022	1/12/2022
AD28258-003	TMW-017	Aqueous	1/10/2022	1/12/2022
AD28258-004	TMW-018	Aqueous	1/10/2022	1/12/2022
AD28258-005	TMW-014D	Aqueous	1/10/2022	1/12/2022
AD28258-006	TMW-14S	Aqueous	1/10/2022	1/12/2022
AD28258-007	TMW-012D	Aqueous	1/10/2022	1/12/2022
AD28258-008	TMW-012S	Aqueous	1/10/2022	1/12/2022
AD28258-009	TMW-13D	Aqueous	1/10/2022	1/12/2022
AD28258-010	TMW-13S	Aqueous	1/10/2022	1/12/2022
AD28258-011	TMW-008S	Aqueous	1/11/2022	1/12/2022
AD28258-012	TMW-008D	Aqueous	1/11/2022	1/12/2022
AD28258-013	TMW-009S	Aqueous	1/11/2022	1/12/2022
AD28258-014	TMW-009D	Aqueous	1/11/2022	1/12/2022
AD28258-015	TMW-011	Aqueous	1/11/2022	1/12/2022
AD28258-016	TRIP BLANK	Aqueous	1/10/2022	1/12/2022

HC Case Narrative

Client: Intertek-PSI **HC Project:** 2011202
Project: CSA WMATA 0444100

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 99326 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 99290, 99292, 99326 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and/or Matrix Spike Duplicate in batch 99326 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batches 98481, 98497 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

Sample AD28123-003 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	2/10/22 Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2011202

Project: CSA WMATA 0444100

Lab#: AD28258-002 **Sample ID: TMW-016**

Analyte	Units	RL	Result	Analytical Method
3&4-Methylphenol	ug/l	0.53	0.76	EPA 8270E

Lab#: AD28258-003 **Sample ID: TMW-017**

Analyte	Units	RL	Result	Analytical Method
Carbon disulfide	ug/l	1.0	2.7	EPA 8260D
Phenol	ug/l	2.1	4.6	EPA 8270E

Lab#: AD28258-004 **Sample ID: TMW-018**

Analyte	Units	RL	Result	Analytical Method
3&4-Methylphenol	ug/l	0.29	0.62	EPA 8270E
Phenol	ug/l	1.2	5.2	EPA 8270E

Lab#: AD28258-005 **Sample ID: TMW-014D**

Analyte	Units	RL	Result	Analytical Method
Cyclohexane	ug/l	1.0	5.0	EPA 8260D
Isopropylbenzene	ug/l	1.0	4.9	EPA 8260D
Methylcyclohexane	ug/l	1.0	15	EPA 8260D

Lab#: AD28258-007 **Sample ID: TMW-012D**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	68	EPA 8260D
Tetrachloroethene	ug/l	1.0	160	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	58	EPA 8260D
Trichloroethene	ug/l	1.0	220	EPA 8260D
Vinyl chloride	ug/l	1.0	5.3	EPA 8260D

Lab#: AD28258-008 **Sample ID: TMW-012S**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	15	EPA 8260D
Tetrachloroethene	ug/l	1.0	66	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	43	EPA 8260D
Trichloroethene	ug/l	1.0	21	EPA 8260D
Vinyl chloride	ug/l	1.0	2.5	EPA 8260D

Lab#: AD28258-009 **Sample ID: TMW-13D**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	22	EPA 8260D
Tetrachloroethene	ug/l	1.0	33	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	7.7	EPA 8260D
Trichloroethene	ug/l	1.0	21	EPA 8260D
Vinyl chloride	ug/l	1.0	4.7	EPA 8260D

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2011202

Project: CSA WMATA 0444100

Lab#: AD28258-011 **Sample ID: TMW-008S**

Analyte	Units	RL	Result	Analytical Method
2-Butanone	ug/l	1.0	12	EPA 8260D
Acetone	ug/l	5.0	39	EPA 8260D
3&4-Methylphenol	ug/l	0.53	25	EPA 8270E

Lab#: AD28258-012 **Sample ID: TMW-008D**

Analyte	Units	RL	Result	Analytical Method
Methyl-t-butyl ether	ug/l	0.50	0.74	EPA 8260D

Lab#: AD28258-015 **Sample ID: TMW-011**

Analyte	Units	RL	Result	Analytical Method
Benzene	ug/l	0.50	2.8	EPA 8260D
cis-1,2-Dichloroethene	ug/l	1.0	24	EPA 8260D
Cyclohexane	ug/l	1.0	62	EPA 8260D
Isopropylbenzene	ug/l	1.0	90	EPA 8260D
Methylcyclohexane	ug/l	1.0	100	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	2.0	EPA 8260D
Trichloroethene	ug/l	1.0	1.8	EPA 8260D
Vinyl chloride	ug/l	1.0	43	EPA 8260D
2-Methylnaphthalene	ug/l	2.1	3.0	EPA 8270E
Naphthalene	ug/l	0.53	1.4	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI **HC Project #:** 2011202

Project: CSA WMATA 0444100

Sample ID: TMW-015 **Collection Date:** 1/10/2022
Lab#: AD28258-001 **Receipt Date:** 1/12/2022
Matrix: Aqueous

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
1,2-Diphenylhydrazine	1	ug/l	2.2	ND
1,4-Dioxane	1	ug/l	0.56	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.56	ND
2,4-Dimethylphenol	1	ug/l	0.61	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzidine	1	ug/l	11	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
Benzyl alcohol	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND

Sample ID: TMW-015 **Collection Date:** 1/10/2022
Lab#: AD28258-001 **Receipt Date:** 1/12/2022
Matrix: Aqueous

Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.76	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	1.2	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitrosodimethylamine	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.71	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND

Sample ID: TMW-015 **Collection Date:** 1/10/2022
Lab#: AD28258-001 **Receipt Date:** 1/12/2022
Matrix: Aqueous

Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-016
Lab#: AD28258-002
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
1,4-Dioxane	1	ug/l	0.53	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.53	ND
2,4-Dimethylphenol	1	ug/l	0.58	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	**1**	**ug/l**	**0.53**	**0.76**
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzidine	1	ug/l	10	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	0.89	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
Benzyl alcohol	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.72	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-016 **Collection Date:** 1/10/2022
Lab#: AD28258-002 **Receipt Date:** 1/12/2022
Matrix: Aqueous

Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.68	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID: TMW-016			Collection Date: 1/10/2022	
Lab#: AD28258-002			Receipt Date: 1/12/2022	
Matrix: Aqueous				
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-017
Lab#: AD28258-003
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
1,4-Dioxane	1	ug/l	0.53	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.53	ND
2,4-Dimethylphenol	1	ug/l	0.58	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.53	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzidine	1	ug/l	10	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
Benzyl alcohol	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.72	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-017 **Collection Date:** 1/10/2022
Lab#: AD28258-003 **Receipt Date:** 1/12/2022
Matrix: Aqueous

Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.68	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	**1**	**ug/l**	**2.1**	**4.6**
Pyrene	1	ug/l	2.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	**1**	**ug/l**	**1.0**	**2.7**
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID: TMW-017	**Collection Date:** 1/10/2022
Lab#: AD28258-003	**Receipt Date:** 1/12/2022
Matrix: Aqueous	

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-018
Lab#: AD28258-004
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.2	ND
1,2-Diphenylhydrazine	1	ug/l	1.2	ND
1,4-Dioxane	1	ug/l	0.29	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.2	ND
2,4,5-Trichlorophenol	1	ug/l	1.2	ND
2,4,6-Trichlorophenol	1	ug/l	1.2	ND
2,4-Dichlorophenol	1	ug/l	0.29	ND
2,4-Dimethylphenol	1	ug/l	0.32	ND
2,4-Dinitrophenol	1	ug/l	5.9	ND
2,4-Dinitrotoluene	1	ug/l	1.2	ND
2,6-Dinitrotoluene	1	ug/l	1.2	ND
2-Chloronaphthalene	1	ug/l	1.2	ND
2-Chlorophenol	1	ug/l	1.2	ND
2-Methylnaphthalene	1	ug/l	1.2	ND
2-Methylphenol	1	ug/l	0.29	ND
2-Nitroaniline	1	ug/l	1.2	ND
2-Nitrophenol	1	ug/l	1.2	ND
3&4-Methylphenol	**1**	**ug/l**	**0.29**	**0.62**
3,3'-Dichlorobenzidine	1	ug/l	1.2	ND
3-Nitroaniline	1	ug/l	1.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	5.9	ND
4-Bromophenyl-phenylether	1	ug/l	1.2	ND
4-Chloro-3-methylphenol	1	ug/l	1.2	ND
4-Chloroaniline	1	ug/l	0.29	ND
4-Chlorophenyl-phenylether	1	ug/l	1.2	ND
4-Nitroaniline	1	ug/l	1.2	ND
4-Nitrophenol	1	ug/l	1.2	ND
Acenaphthene	1	ug/l	1.2	ND
Acenaphthylene	1	ug/l	1.2	ND
Acetophenone	1	ug/l	1.2	ND
Anthracene	1	ug/l	1.2	ND
Atrazine	1	ug/l	1.2	ND
Benzaldehyde	1	ug/l	1.2	ND
Benzidine	1	ug/l	5.8	ND
Benzo[a]anthracene	1	ug/l	1.2	ND
Benzo[a]pyrene	1	ug/l	1.2	ND
Benzo[b]fluoranthene	1	ug/l	1.2	ND
Benzo[g,h,i]perylene	1	ug/l	1.2	ND
Benzo[k]fluoranthene	1	ug/l	1.2	ND
Benzyl alcohol	1	ug/l	1.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.29	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.2	ND
Butylbenzylphthalate	1	ug/l	1.2	ND
Caprolactam	1	ug/l	1.2	ND
Carbazole	1	ug/l	1.2	ND
Chrysene	1	ug/l	1.2	ND
Dibenzo[a,h]anthracene	1	ug/l	1.2	ND
Dibenzofuran	1	ug/l	0.40	ND
Diethylphthalate	1	ug/l	1.2	ND
Dimethylphthalate	1	ug/l	1.2	ND
Di-n-butylphthalate	1	ug/l	0.64	ND

Sample ID: TMW-018 **Collection Date:** 1/10/2022
Lab#: AD28258-004 **Receipt Date:** 1/12/2022
Matrix: Aqueous

Di-n-octylphthalate	1	ug/l	1.2	ND
Fluoranthene	1	ug/l	1.2	ND
Fluorene	1	ug/l	1.2	ND
Hexachlorobenzene	1	ug/l	1.2	ND
Hexachlorobutadiene	1	ug/l	1.2	ND
Hexachlorocyclopentadiene	1	ug/l	1.2	ND
Hexachloroethane	1	ug/l	1.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.2	ND
Isophorone	1	ug/l	1.2	ND
Naphthalene	1	ug/l	0.29	ND
Nitrobenzene	1	ug/l	1.2	ND
N-Nitrosodimethylamine	1	ug/l	1.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.38	ND
N-Nitrosodiphenylamine	1	ug/l	1.2	ND
Pentachlorophenol	1	ug/l	5.9	ND
Phenanthrene	1	ug/l	1.2	ND
Phenol	**1**	**ug/l**	**1.2**	**5.2**
Pyrene	1	ug/l	1.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-018**
Lab#:	**AD28258-004**
Matrix:	**Aqueous**
Collection Date:	**1/10/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-014D
Lab#: AD28258-005
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
1,4-Dioxane	1	ug/l	0.50	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.55	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzidine	1	ug/l	9.9	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Benzyl alcohol	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.68	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-014D
Lab#: AD28258-005
Matrix: Aqueous
Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.64	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	**1**	**ug/l**	**1.0**	**5.0**

Sample ID: TMW-014D
Lab#: AD28258-005
Matrix: Aqueous
Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	**1**	**ug/l**	**1.0**	**4.9**
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	**1**	**ug/l**	**1.0**	**15**
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-14S
Lab#: AD28258-006
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
1,2-Diphenylhydrazine	1	ug/l	2.2	ND
1,4-Dioxane	1	ug/l	0.56	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.56	ND
2,4-Dimethylphenol	1	ug/l	0.61	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.56	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.56	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.56	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzidine	1	ug/l	11	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
Benzyl alcohol	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.56	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.76	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	1.2	ND

Sample ID: TMW-14S	**Collection Date:** 1/10/2022
Lab#: AD28258-006	**Receipt Date:** 1/12/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitrosodimethylamine	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.71	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID: TMW-14S
Lab#: AD28258-006
Matrix: Aqueous
Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-012D
Lab#: AD28258-007
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.1	ND
1,2-Diphenylhydrazine	1	ug/l	1.1	ND
1,4-Dioxane	1	ug/l	0.29	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.1	ND
2,4,5-Trichlorophenol	1	ug/l	1.1	ND
2,4,6-Trichlorophenol	1	ug/l	1.1	ND
2,4-Dichlorophenol	1	ug/l	0.29	ND
2,4-Dimethylphenol	1	ug/l	0.32	ND
2,4-Dinitrophenol	1	ug/l	5.7	ND
2,4-Dinitrotoluene	1	ug/l	1.1	ND
2,6-Dinitrotoluene	1	ug/l	1.1	ND
2-Chloronaphthalene	1	ug/l	1.1	ND
2-Chlorophenol	1	ug/l	1.1	ND
2-Methylnaphthalene	1	ug/l	1.1	ND
2-Methylphenol	1	ug/l	0.29	ND
2-Nitroaniline	1	ug/l	1.1	ND
2-Nitrophenol	1	ug/l	1.1	ND
3&4-Methylphenol	1	ug/l	0.29	ND
3,3'-Dichlorobenzidine	1	ug/l	1.1	ND
3-Nitroaniline	1	ug/l	1.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	5.7	ND
4-Bromophenyl-phenylether	1	ug/l	1.1	ND
4-Chloro-3-methylphenol	1	ug/l	1.1	ND
4-Chloroaniline	1	ug/l	0.29	ND
4-Chlorophenyl-phenylether	1	ug/l	1.1	ND
4-Nitroaniline	1	ug/l	1.1	ND
4-Nitrophenol	1	ug/l	1.1	ND
Acenaphthene	1	ug/l	1.1	ND
Acenaphthylene	1	ug/l	1.1	ND
Acetophenone	1	ug/l	1.1	ND
Anthracene	1	ug/l	1.1	ND
Atrazine	1	ug/l	1.1	ND
Benzaldehyde	1	ug/l	1.1	ND
Benzidine	1	ug/l	5.7	ND
Benzo[a]anthracene	1	ug/l	1.1	ND
Benzo[a]pyrene	1	ug/l	1.1	ND
Benzo[b]fluoranthene	1	ug/l	1.1	ND
Benzo[g,h,i]perylene	1	ug/l	1.1	ND
Benzo[k]fluoranthene	1	ug/l	1.1	ND
Benzyl alcohol	1	ug/l	1.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.29	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.1	ND
Butylbenzylphthalate	1	ug/l	1.1	ND
Caprolactam	1	ug/l	1.1	ND
Carbazole	1	ug/l	1.1	ND
Chrysene	1	ug/l	1.1	ND
Dibenzo[a,h]anthracene	1	ug/l	1.1	ND
Dibenzofuran	1	ug/l	0.39	ND
Diethylphthalate	1	ug/l	1.1	ND
Dimethylphthalate	1	ug/l	1.1	ND
Di-n-butylphthalate	1	ug/l	0.62	ND

Sample ID:	**TMW-012D**
Lab#:	**AD28258-007**
Matrix:	**Aqueous**
Collection Date:	**1/10/2022**
Receipt Date:	**1/12/2022**

Di-n-octylphthalate	1	ug/l	1.1	ND
Fluoranthene	1	ug/l	1.1	ND
Fluorene	1	ug/l	1.1	ND
Hexachlorobenzene	1	ug/l	1.1	ND
Hexachlorobutadiene	1	ug/l	1.1	ND
Hexachlorocyclopentadiene	1	ug/l	1.1	ND
Hexachloroethane	1	ug/l	1.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.1	ND
Isophorone	1	ug/l	1.1	ND
Naphthalene	1	ug/l	0.29	ND
Nitrobenzene	1	ug/l	1.1	ND
N-Nitrosodimethylamine	1	ug/l	1.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.37	ND
N-Nitrosodiphenylamine	1	ug/l	1.1	ND
Pentachlorophenol	1	ug/l	5.7	ND
Phenanthrene	1	ug/l	1.1	ND
Phenol	1	ug/l	1.1	ND
Pyrene	1	ug/l	1.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**68**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-012D**
Lab#:	**AD28258-007**
Matrix:	**Aqueous**
Collection Date:	**1/10/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**160**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**58**
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**220**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	**1**	**ug/l**	**1.0**	**5.3**
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-012S
Lab#: AD28258-008
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
1,2-Diphenylhydrazine	1	ug/l	2.0	ND
1,4-Dioxane	1	ug/l	0.50	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.55	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzidine	1	ug/l	9.9	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Benzyl alcohol	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.68	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-012S	**Collection Date:** 1/10/2022
Lab#: AD28258-008	**Receipt Date:** 1/12/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitrosodimethylamine	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.64	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**15**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID: TMW-012S
Lab#: AD28258-008
Matrix: Aqueous
Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**66**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**43**
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**21**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	**1**	**ug/l**	**1.0**	**2.5**
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-13D
Lab#: AD28258-009
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
1,4-Dioxane	1	ug/l	0.53	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.53	ND
2,4-Dimethylphenol	1	ug/l	0.58	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.53	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzidine	1	ug/l	10	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
Benzyl alcohol	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.72	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-13D
Lab#: AD28258-009
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.68	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**22**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-13D**
Lab#:	**AD28258-009**
Matrix:	**Aqueous**
Collection Date:	**1/10/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**33**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**7.7**
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**21**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	**1**	**ug/l**	**1.0**	**4.7**
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-13S
Lab#: AD28258-010
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
1,2-Diphenylhydrazine	1	ug/l	2.2	ND
1,4-Dioxane	1	ug/l	0.55	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	0.55	ND
2,4-Dimethylphenol	1	ug/l	0.61	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.55	ND
2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.55	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.55	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzidine	1	ug/l	11	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
Benzyl alcohol	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.55	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.75	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	1.2	ND

Sample ID: TMW-13S	**Collection Date:** 1/10/2022
Lab#: AD28258-010	**Receipt Date:** 1/12/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	2.2	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.55	ND
Nitrobenzene	1	ug/l	2.2	ND
N-Nitrosodimethylamine	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.71	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	1	ug/l	2.2	ND
Pyrene	1	ug/l	2.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-13S**
Lab#:	**AD28258-010**
Matrix:	**Aqueous**
Collection Date:	**1/10/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-008S
Lab#: AD28258-011
Matrix: Aqueous

Collection Date: 1/11/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
1,4-Dioxane	1	ug/l	0.53	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.53	ND
2,4-Dimethylphenol	1	ug/l	0.58	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	**1**	**ug/l**	**0.53**	**25**
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzidine	1	ug/l	10	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
Benzyl alcohol	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.72	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-008S
Lab#: AD28258-011
Matrix: Aqueous

Collection Date: 1/11/2022
Receipt Date: 1/12/2022

Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.68	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	**1**	**ug/l**	**1.0**	**12**
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	**1**	**ug/l**	**5.0**	**39**
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-008S**
Lab#:	**AD28258-011**
Matrix:	**Aqueous**
Collection Date:	**1/11/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-008D
Lab#: AD28258-012
Matrix: Aqueous

Collection Date: 1/11/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
1,4-Dioxane	1	ug/l	0.53	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.53	ND
2,4-Dimethylphenol	1	ug/l	0.58	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.53	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzidine	1	ug/l	10	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
Benzyl alcohol	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.72	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID: TMW-008D	**Collection Date:** 1/11/2022
Lab#: AD28258-012	**Receipt Date:** 1/12/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.53	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.68	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-008D**
Lab#:	**AD28258-012**
Matrix:	**Aqueous**
Collection Date:	**1/11/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	**1**	**ug/l**	**0.50**	**0.74**
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-009S
Lab#: AD28258-013
Matrix: Aqueous

Collection Date: 1/11/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.2	ND
1,2-Diphenylhydrazine	1	ug/l	1.2	ND
1,4-Dioxane	1	ug/l	0.29	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.2	ND
2,4,5-Trichlorophenol	1	ug/l	1.2	ND
2,4,6-Trichlorophenol	1	ug/l	1.2	ND
2,4-Dichlorophenol	1	ug/l	0.29	ND
2,4-Dimethylphenol	1	ug/l	0.32	ND
2,4-Dinitrophenol	1	ug/l	5.8	ND
2,4-Dinitrotoluene	1	ug/l	1.2	ND
2,6-Dinitrotoluene	1	ug/l	1.2	ND
2-Chloronaphthalene	1	ug/l	1.2	ND
2-Chlorophenol	1	ug/l	1.2	ND
2-Methylnaphthalene	1	ug/l	1.2	ND
2-Methylphenol	1	ug/l	0.29	ND
2-Nitroaniline	1	ug/l	1.2	ND
2-Nitrophenol	1	ug/l	1.2	ND
3&4-Methylphenol	1	ug/l	0.29	ND
3,3'-Dichlorobenzidine	1	ug/l	1.2	ND
3-Nitroaniline	1	ug/l	1.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	5.8	ND
4-Bromophenyl-phenylether	1	ug/l	1.2	ND
4-Chloro-3-methylphenol	1	ug/l	1.2	ND
4-Chloroaniline	1	ug/l	0.29	ND
4-Chlorophenyl-phenylether	1	ug/l	1.2	ND
4-Nitroaniline	1	ug/l	1.2	ND
4-Nitrophenol	1	ug/l	1.2	ND
Acenaphthene	1	ug/l	1.2	ND
Acenaphthylene	1	ug/l	1.2	ND
Acetophenone	1	ug/l	1.2	ND
Anthracene	1	ug/l	1.2	ND
Atrazine	1	ug/l	1.2	ND
Benzaldehyde	1	ug/l	1.2	ND
Benzidine	1	ug/l	5.7	ND
Benzo[a]anthracene	1	ug/l	1.2	ND
Benzo[a]pyrene	1	ug/l	1.2	ND
Benzo[b]fluoranthene	1	ug/l	1.2	ND
Benzo[g,h,i]perylene	1	ug/l	1.2	ND
Benzo[k]fluoranthene	1	ug/l	1.2	ND
Benzyl alcohol	1	ug/l	1.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.29	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.2	ND
Butylbenzylphthalate	1	ug/l	1.2	ND
Caprolactam	1	ug/l	1.2	ND
Carbazole	1	ug/l	1.2	ND
Chrysene	1	ug/l	1.2	ND
Dibenzo[a,h]anthracene	1	ug/l	1.2	ND
Dibenzofuran	1	ug/l	0.39	ND
Diethylphthalate	1	ug/l	1.2	ND
Dimethylphthalate	1	ug/l	1.2	ND
Di-n-butylphthalate	1	ug/l	0.63	ND

Sample ID:	**TMW-009S**
Lab#:	**AD28258-013**
Matrix:	**Aqueous**
Collection Date:	**1/11/2022**
Receipt Date:	**1/12/2022**

Di-n-octylphthalate	1	ug/l	1.2	ND
Fluoranthene	1	ug/l	1.2	ND
Fluorene	1	ug/l	1.2	ND
Hexachlorobenzene	1	ug/l	1.2	ND
Hexachlorobutadiene	1	ug/l	1.2	ND
Hexachlorocyclopentadiene	1	ug/l	1.2	ND
Hexachloroethane	1	ug/l	1.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.2	ND
Isophorone	1	ug/l	1.2	ND
Naphthalene	1	ug/l	0.29	ND
Nitrobenzene	1	ug/l	1.2	ND
N-Nitrosodimethylamine	1	ug/l	1.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.37	ND
N-Nitrosodiphenylamine	1	ug/l	1.2	ND
Pentachlorophenol	1	ug/l	5.8	ND
Phenanthrene	1	ug/l	1.2	ND
Phenol	1	ug/l	1.2	ND
Pyrene	1	ug/l	1.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID: TMW-009S	**Collection Date:** 1/11/2022
Lab#: AD28258-013	**Receipt Date:** 1/12/2022
Matrix: Aqueous	

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-009D
Lab#: AD28258-014
Matrix: Aqueous

Collection Date: 1/11/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	1.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	1.2	ND
1,2-Diphenylhydrazine	1	ug/l	1.2	ND
1,4-Dioxane	1	ug/l	0.31	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	1.2	ND
2,4,5-Trichlorophenol	1	ug/l	1.2	ND
2,4,6-Trichlorophenol	1	ug/l	1.2	ND
2,4-Dichlorophenol	1	ug/l	0.31	ND
2,4-Dimethylphenol	1	ug/l	0.34	ND
2,4-Dinitrophenol	1	ug/l	6.1	ND
2,4-Dinitrotoluene	1	ug/l	1.2	ND
2,6-Dinitrotoluene	1	ug/l	1.2	ND
2-Chloronaphthalene	1	ug/l	1.2	ND
2-Chlorophenol	1	ug/l	1.2	ND
2-Methylnaphthalene	1	ug/l	1.2	ND
2-Methylphenol	1	ug/l	0.31	ND
2-Nitroaniline	1	ug/l	1.2	ND
2-Nitrophenol	1	ug/l	1.2	ND
3&4-Methylphenol	1	ug/l	0.31	ND
3,3'-Dichlorobenzidine	1	ug/l	1.2	ND
3-Nitroaniline	1	ug/l	1.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	6.1	ND
4-Bromophenyl-phenylether	1	ug/l	1.2	ND
4-Chloro-3-methylphenol	1	ug/l	1.2	ND
4-Chloroaniline	1	ug/l	0.31	ND
4-Chlorophenyl-phenylether	1	ug/l	1.2	ND
4-Nitroaniline	1	ug/l	1.2	ND
4-Nitrophenol	1	ug/l	1.2	ND
Acenaphthene	1	ug/l	1.2	ND
Acenaphthylene	1	ug/l	1.2	ND
Acetophenone	1	ug/l	1.2	ND
Anthracene	1	ug/l	1.2	ND
Atrazine	1	ug/l	1.2	ND
Benzaldehyde	1	ug/l	1.2	ND
Benzidine	1	ug/l	6.1	ND
Benzo[a]anthracene	1	ug/l	1.2	ND
Benzo[a]pyrene	1	ug/l	1.2	ND
Benzo[b]fluoranthene	1	ug/l	1.2	ND
Benzo[g,h,i]perylene	1	ug/l	1.2	ND
Benzo[k]fluoranthene	1	ug/l	1.2	ND
Benzyl alcohol	1	ug/l	1.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	1.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.31	ND
bis(2-Chloroisopropyl)ether	1	ug/l	1.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	1.2	ND
Butylbenzylphthalate	1	ug/l	1.2	ND
Caprolactam	1	ug/l	1.2	ND
Carbazole	1	ug/l	1.2	ND
Chrysene	1	ug/l	1.2	ND
Dibenzo[a,h]anthracene	1	ug/l	1.2	ND
Dibenzofuran	1	ug/l	0.42	ND
Diethylphthalate	1	ug/l	1.2	ND
Dimethylphthalate	1	ug/l	1.2	ND
Di-n-butylphthalate	1	ug/l	0.67	ND

Sample ID: TMW-009D	**Collection Date:** 1/11/2022
Lab#: AD28258-014	**Receipt Date:** 1/12/2022
Matrix: Aqueous	

Di-n-octylphthalate	1	ug/l	1.2	ND
Fluoranthene	1	ug/l	1.2	ND
Fluorene	1	ug/l	1.2	ND
Hexachlorobenzene	1	ug/l	1.2	ND
Hexachlorobutadiene	1	ug/l	1.2	ND
Hexachlorocyclopentadiene	1	ug/l	1.2	ND
Hexachloroethane	1	ug/l	1.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	1.2	ND
Isophorone	1	ug/l	1.2	ND
Naphthalene	1	ug/l	0.31	ND
Nitrobenzene	1	ug/l	1.2	ND
N-Nitrosodimethylamine	1	ug/l	1.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.39	ND
N-Nitrosodiphenylamine	1	ug/l	1.2	ND
Pentachlorophenol	1	ug/l	6.1	ND
Phenanthrene	1	ug/l	1.2	ND
Phenol	1	ug/l	1.2	ND
Pyrene	1	ug/l	1.2	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND

Sample ID:	**TMW-009D**
Lab#:	**AD28258-014**
Matrix:	**Aqueous**
Collection Date:	**1/11/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-011
Lab#: AD28258-015
Matrix: Aqueous

Collection Date: 1/11/2022
Receipt Date: 1/12/2022

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
1,2-Diphenylhydrazine	1	ug/l	2.1	ND
1,4-Dioxane	1	ug/l	0.53	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	0.53	ND
2,4-Dimethylphenol	1	ug/l	0.58	ND
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	**1**	**ug/l**	**2.1**	**3.0**
2-Methylphenol	1	ug/l	0.53	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.53	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.53	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzidine	1	ug/l	10	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
Benzyl alcohol	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.53	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.72	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	1.1	ND

Sample ID:	**TMW-011**
Lab#:	**AD28258-015**
Matrix:	**Aqueous**
Collection Date:	**1/11/2022**
Receipt Date:	**1/12/2022**

Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	2.1	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	**1**	**ug/l**	**0.53**	**1.4**
Nitrobenzene	1	ug/l	2.1	ND
N-Nitrosodimethylamine	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.68	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	**1**	**ug/l**	**0.50**	**2.8**
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**24**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	**1**	**ug/l**	**1.0**	**62**

Sample ID:	**TMW-011**
Lab#:	**AD28258-015**
Matrix:	**Aqueous**
Collection Date:	**1/11/2022**
Receipt Date:	**1/12/2022**

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	**1**	**ug/l**	**1.0**	**90**
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	**1**	**ug/l**	**1.0**	**100**
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**2.0**
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**1.8**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	**1**	**ug/l**	**1.0**	**43**
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TRIP BLANK
Lab#: AD28258-016
Matrix: Aqueous

Collection Date: 1/10/2022
Receipt Date: 1/12/2022

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Acrolein	1	ug/l	5.0	ND
Acrylonitrile	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND

Sample ID:	**TRIP BLANK**
Lab#:	**AD28258-016**
Matrix:	**Aqueous**
Collection Date:	**1/10/2022**
Receipt Date:	**1/12/2022**

Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 2011202

Project: CSA WMATA 0444100

Lab#: AD28258-001 **Sample ID: TMW-015**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22 10:32	AT	EPA 8270E	1/13/22 19:35	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 06:30	JM

Lab#: AD28258-002 **Sample ID: TMW-016**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/15/21	jayrana	EPA 8270E	1/16/22 19:32	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 06:50	JM

Lab#: AD28258-003 **Sample ID: TMW-017**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22 10:32	AT	EPA 8270E	1/13/22 20:19	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 07:10	JM

Lab#: AD28258-004 **Sample ID: TMW-018**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22 10:32	AT	EPA 8270E	1/13/22 20:41	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 07:30	JM

Lab#: AD28258-005 **Sample ID: TMW-014D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22 10:32	AT	EPA 8270E	1/13/22 21:04	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 08:10	JM

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 2011202

Project: CSA WMATA 0444100

Lab#: AD28258-006 **Sample ID: TMW-14S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22 10:32	AT	EPA 8270E	1/13/22 21:26	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 08:29	JM

Lab#: AD28258-007 **Sample ID: TMW-012D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22 10:32	AT	EPA 8270E	1/13/22 21:48	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 08:49	JM

Lab#: AD28258-008 **Sample ID: TMW-012S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22 10:32	AT	EPA 8270E	1/14/22 13:29	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 09:09	JM

Lab#: AD28258-009 **Sample ID: TMW-13D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22	Jnadler	EPA 8270E	1/14/22 10:31	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/19/22 12:06	JM

Lab#: AD28258-010 **Sample ID: TMW-13S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22	Jnadler	EPA 8270E	1/14/22 10:53	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/19/22 12:26	JM

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 2011202

Project: CSA WMATA 0444100

Lab#: AD28258-011 **Sample ID: TMW-008S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22	Jnadler	EPA 8270E	1/14/22 11:16	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/19/22 13:06	JM

Lab#: AD28258-012 **Sample ID: TMW-008D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22	Jnadler	EPA 8270E	1/14/22 11:38	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 20:50	JM

Lab#: AD28258-013 **Sample ID: TMW-009S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22	Jnadler	EPA 8270E	1/14/22 12:22	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 21:09	JM

Lab#: AD28258-014 **Sample ID: TMW-009D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22	Jnadler	EPA 8270E	1/14/22 12:45	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 21:29	JM

Lab#: AD28258-015 **Sample ID: TMW-011**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	01/13/22	Jnadler	EPA 8270E	1/14/22 13:07	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 21:49	JM

Laboratory Chronicle

Client: Intertek-PSI
Project: CSA WMATA 0444100

HC Project #: 2011202

Lab#: AD28258-016 **Sample ID:** TRIP BLANK

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	1/13/22 19:11	JM

Chain of Custody

201202 0058

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00483 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 201202

Page 1 of 2

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek PSI
Address: 2930 Eskridge Rd.
Fairfax, VA 22031
1b) Email/Cell/Fax/Ph: andres.acosta@intertek.com
1c) Send Invoice to: + ringova.reuther@intertek.com
1d) Send Report to:

Project Information

2a) Project: CSA WMATA 044100
2b) Project Mgr:
2c) Project Location (City/State):
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

===> Check If Contingent ===>

<=== Check If Contingent <===

Batch # AZ8258

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	7) Analysis: 8260 VOC	7) Analysis: 8270 SVOC	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	TMW-015		1/10/22	10:10			X	X	2				3				
002	TMW-016			11:05			X	X	2				3				
003	TMW-017			11:45			X	X	2				3				
004	TMW-018			12:25			X	X	2				3				
005	TMW-019D			14:25			X	X	2				3				strong odor
006	TMW-19S			14:48			X	X	2				3				
007	TMW-012D			16:10			X	X	2				3				
008	TMW-012S			16:40			X	X	2				3				
009	TMW-13D			15:42			X	X	2				3				
010	TMW-13S			15:09			X	X	2				3				

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX	1/11/22	1700
FEDEX	[signature]	1/12/22	8:00

11) Sampler (print name): Date:

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.9, 2.6, 3.1, 2.8

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

2011202 NNSG

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00483 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 2011202

Page 2 of 2

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek PSI
Address: 2936 Eskridge Rd.
FAIRFAX, VA 22031
1b) Email/Cell/Fax/Ph: ANDRES.ACOSTA@INTERTEK
1c) Send Invoice to: "
1d) Send Report to: KINZOVA.RENTHLEI@Intertek

Project Information

2a) Project: CSX WNATA
6449.100
2b) Project Mgr: A. Acosta
2c) Project Location (City/State): Washington D.C
2d) Quote/PO # (If Applicable): 6449.100

FOR LAB USE ONLY ↓

Batch #: A0282516

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8270-SVOC	8260-VOC	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
011	TMW-008S		1/11/22	10:58			X	X	2				3				
012	TMW-008D			10:30			X	X	2				3				
013	TMW-009S			12:05			X	X	2				3				
014	TMW-009D			12:40			X	X	2				3				
015	TMW-011		↓	14:30			X	X	2				3				Strongwater

10) Relinquished by:	Accepted by:	Date	Time
	FEDEX	1/11/22	1700
FEDEX	[illegible]	1/12/22	8:00

11) Sampler (print name): Date:

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.9, 2.6, 3.1, 2.8

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: INTERTEK-VA **HC Project #:** 2011202
Project: CSA WMATA 0444100

---

csmith192.168.1.137
1/18/2022 11:46:11 AM

Per Rinzova Renthlei, The TB is to be analyzed.

CONDITION UPON RECEIPT

Batch Number AD28258 Entered By: maxwell
Date Entered 1/12/2022 9:14:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.9,2.6,3.1,2.8
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	Yes	Other comments ...Specify (TB date, sample matrix, any missing info, etc.) TRIP BLANK DATE 12/27/21 RECEIVED NOT ON COC
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

PRESERVATION DOCUMENT

Batch Number AD28258 Entered By: maxwell

Date Entered 1/12/2022 9:17:00 AM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD28258-001	40ML	G	VO	HCL	253057	1	HC160347
AD28258-002	40ML	G	VO	HCL	253057	1	HC160347
AD28258-003	40ML	G	VO	HCL	253057	1	HC160347
AD28258-004	40ML	G	VO	HCL	253057	1	HC160347
AD28258-005	40ML	G	VO	HCL	253057	1	HC160347
AD28258-006	40ML	G	VO	HCL	253057	1	HC160347
AD28258-007	40ML	G	VO	HCL	253057	1	HC160347
AD28258-008	40ML	G	VO	HCL	253057	1	HC160347
AD28258-009	40ML	G	VO	HCL	253057	1	HC160347
AD28258-010	40ML	G	VO	HCL	253057	1	HC160347
AD28258-011	40ML	G	VO	HCL	253057	1	HC160347
AD28258-012	40ML	G	VO	HCL	253057	1	HC160347
AD28258-013	40ML	G	VO	HCL	253057	1	HC160347
AD28258-014	40ML	G	VO	HCL	253057	1	HC160347
AD28258-015	40ML	G	VO	HCL	253057	1	HC160347
AD28258-016	40ML	G	VO	HCL	253057	1	HC160347

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD28258-001	01/12/22 08:00	MAXW	0	M	Received
AD28258-001	01/12/22 09:12	MAXW	0	M	Login
AD28258-001	01/12/22 10:50	R31	1	A	NONE
AD28258-001	01/12/22 18:35	SG	1	A	VOA
AD28258-001	01/12/22 10:50	R31	2	A	NONE
AD28258-001	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-001	01/12/22 09:18	R12	4	A	NONE
AD28258-001	01/12/22 09:18	R12	5	A	NONE
AD28258-001	01/13/22 10:32	AT	5	A	BNA
AD28258-002	01/12/22 08:00	MAXW	0	M	Received
AD28258-002	01/12/22 09:12	MAXW	0	M	Login
AD28258-002	01/12/22 10:50	R31	1	A	NONE
AD28258-002	01/12/22 18:35	SG	1	A	VOA
AD28258-002	01/12/22 10:50	R31	2	A	NONE
AD28258-002	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-002	01/12/22 09:18	R12	4	A	NONE
AD28258-002	01/15/22 05:05	JKR	4	A	bna
AD28258-002	01/12/22 09:18	R12	5	A	NONE
AD28258-002	01/13/22 10:32	AT	5	A	BNA
AD28258-003	01/12/22 08:00	MAXW	0	M	Received
AD28258-003	01/12/22 09:12	MAXW	0	M	Login
AD28258-003	01/12/22 10:50	R31	1	A	NONE
AD28258-003	01/12/22 18:35	SG	1	A	VOA
AD28258-003	01/12/22 10:50	R31	2	A	NONE
AD28258-003	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-003	01/12/22 09:18	R12	4	A	NONE
AD28258-003	01/12/22 09:18	R12	5	A	NONE
AD28258-003	01/13/22 10:32	AT	5	A	BNA
AD28258-004	01/12/22 08:00	MAXW	0	M	Received
AD28258-004	01/12/22 09:12	MAXW	0	M	Login
AD28258-004	01/12/22 10:50	R31	1	A	NONE
AD28258-004	01/12/22 18:35	SG	1	A	VOA
AD28258-004	01/12/22 10:50	R31	2	A	NONE
AD28258-004	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-004	01/12/22 09:18	R12	4	A	NONE
AD28258-004	01/13/22 10:32	AT	4	A	BNA
AD28258-004	01/12/22 09:18	R12	5	A	NONE
AD28258-005	01/12/22 08:00	MAXW	0	M	Received
AD28258-005	01/12/22 09:12	MAXW	0	M	Login
AD28258-005	01/12/22 10:50	R31	1	A	NONE
AD28258-005	01/12/22 18:35	SG	1	A	VOA
AD28258-005	01/12/22 10:50	R31	2	A	NONE
AD28258-005	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-005	01/12/22 09:18	R12	4	A	NONE
AD28258-005	01/12/22 09:18	R12	5	A	NONE
AD28258-005	01/13/22 10:32	AT	5	A	BNA
AD28258-006	01/12/22 08:00	MAXW	0	M	Received
AD28258-006	01/12/22 09:12	MAXW	0	M	Login
AD28258-006	01/12/22 10:50	R31	1	A	NONE
AD28258-006	01/12/22 18:35	SG	1	A	VOA
AD28258-006	01/12/22 10:50	R31	2	A	NONE
AD28258-006	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-006	01/12/22 09:18	R12	4	A	NONE
AD28258-006	01/12/22 09:18	R12	5	A	NONE
AD28258-006	01/13/22 10:32	AT	5	A	BNA
AD28258-007	01/12/22 08:00	MAXW	0	M	Received
AD28258-007	01/12/22 09:12	MAXW	0	M	Login
AD28258-007	01/12/22 10:50	R31	1	A	NONE
AD28258-007	01/12/22 18:35	SG	1	A	VOA
AD28258-007	01/12/22 10:50	R31	2	A	NONE
AD28258-007	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-007	01/12/22 09:18	R12	4	A	NONE
AD28258-007	01/12/22 09:18	R12	5	A	NONE
AD28258-007	01/13/22 10:32	AT	5	A	BNA
AD28258-008	01/12/22 08:00	MAXW	0	M	Received
AD28258-008	01/12/22 09:12	MAXW	0	M	Login
AD28258-008	01/12/22 10:50	R31	1	A	NONE
AD28258-008	01/12/22 18:35	SG	1	A	VOA
AD28258-008	01/12/22 10:50	R31	2	A	NONE
AD28258-008	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-008	01/12/22 09:18	R12	4	A	NONE
AD28258-008	01/13/22 10:32	AT	4	A	BNA
AD28258-008	01/12/22 09:18	R12	5	A	NONE
AD28258-009	01/12/22 08:00	MAXW	0	M	Received
AD28258-009	01/12/22 09:12	MAXW	0	M	Login
AD28258-009	01/12/22 10:50	R31	1	A	NONE
AD28258-009	01/12/22 18:35	SG	1	A	VOA
AD28258-009	01/13/22 11:39	R31	1	A	NONE
AD28258-009	01/13/22 12:37	SG	1	A	VOA
AD28258-009	01/14/22 12:15	R31	1	A	NONE
AD28258-009	01/17/22 20:51	WP	1	A	VOA
AD28258-009	01/18/22 23:17	SG	1	A	VOA
AD28258-009	01/19/22 08:34	R31	1	A	NONE
AD28258-009	01/19/22 11:35	JM	1	A	VOA
AD28258-009	01/12/22 10:50	R31	2	A	NONE
AD28258-009	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-009	01/12/22 09:18	R12	4	A	NONE
AD28258-009	01/12/22 09:18	R12	5	A	NONE
AD28258-009	01/13/22 16:02	JN	5	A	BN/BNA
AD28258-010	01/12/22 08:00	MAXW	0	M	Received
AD28258-010	01/12/22 09:12	MAXW	0	M	Login
AD28258-010	01/12/22 10:50	R31	1	A	NONE
AD28258-010	01/12/22 18:35	SG	1	A	VOA
AD28258-010	01/13/22 11:39	R31	1	A	NONE
AD28258-010	01/13/22 12:37	SG	1	A	VOA
AD28258-010	01/14/22 12:15	R31	1	A	NONE
AD28258-010	01/17/22 20:51	WP	1	A	VOA
AD28258-010	01/18/22 23:17	SG	1	A	VOA
AD28258-010	01/19/22 08:34	R31	1	A	NONE
AD28258-010	01/19/22 11:35	JM	1	A	VOA
AD28258-010	01/12/22 10:50	R31	2	A	NONE
AD28258-010	01/12/22 10:48	R31	3	A	PH/CHECK
AD28258-010	01/12/22 09:18	R12	4	A	NONE
AD28258-010	01/13/22 16:02	JN	4	A	BN/BNA
AD28258-010	01/12/22 09:18	R12	5	A	NONE
AD28258-011	01/12/22 08:00	MAXW	0	M	Received
AD28258-011	01/12/22 09:12	MAXW	0	M	Login
AD28258-011	01/12/22 10:50	R31	1	A	NONE
AD28258-011	01/12/22 18:35	SG	1	A	VOA
AD28258-011	01/13/22 11:39	R31	1	A	NONE
AD28258-011	01/13/22 12:37	SG	1	A	VOA
AD28258-011	01/14/22 12:15	R31	1	A	NONE
AD28258-011	01/17/22 20:51	WP	1	A	VOA
AD28258-011	01/18/22 23:17	SG	1	A	VOA
AD28258-011	01/19/22 08:34	R31	1	A	NONE
AD28258-011	01/19/22 11:35	JM	1	A	VOA
AD28258-011	01/12/22 10:50	R31	2	A	NONE
AD28258-011	01/12/22 09:18	R12	4	A	NONE
AD28258-011	01/13/22 16:02	JN	4	A	BN/BNA
AD28258-011	01/12/22 09:18	R12	5	A	NONE
AD28258-012	01/12/22 08:00	MAXW	0	M	Received
AD28258-012	01/12/22 09:12	MAXW	0	M	Login
AD28258-012	01/12/22 10:50	R31	1	A	NONE
AD28258-012	01/12/22 18:35	SG	1	A	VOA
AD28258-012	01/13/22 11:39	R31	1	A	NONE
AD28258-012	01/13/22 12:37	SG	1	A	VOA
AD28258-012	01/12/22 10:50	R31	2	A	NONE
AD28258-012	01/12/22 09:18	R12	4	A	NONE
AD28258-012	01/13/22 16:02	JN	4	A	BN/BNA
AD28258-012	01/12/22 09:18	R12	5	A	NONE
AD28258-013	01/12/22 08:00	MAXW	0	M	Received
AD28258-013	01/12/22 09:12	MAXW	0	M	Login
AD28258-013	01/12/22 10:50	R31	1	A	NONE
AD28258-013	01/13/22 13:02	SG	1	A	VOA
AD28258-013	01/12/22 10:50	R31	2	A	NONE
AD28258-013	01/12/22 10:50	R31	3	A	NONE
AD28258-013	01/12/22 09:18	R12	4	A	NONE
AD28258-013	01/12/22 18:00	R12	4	A	NONE
AD28258-013	01/12/22 09:18	R12	5	A	NONE
AD28258-013	01/12/22 18:00	R12	5	A	NONE
AD28258-013	01/13/22 16:02	JN	5	A	BN/BNA
AD28258-014	01/12/22 08:00	MAXW	0	M	Received
AD28258-014	01/12/22 09:12	MAXW	0	M	Login
AD28258-014	01/12/22 10:50	R31	1	A	NONE
AD28258-014	01/13/22 13:02	SG	1	A	VOA
AD28258-014	01/12/22 10:50	R31	2	A	NONE
AD28258-014	01/12/22 09:18	R12	4	A	NONE
AD28258-014	01/12/22 18:00	R12	4	A	NONE
AD28258-014	01/12/22 09:18	R12	5	A	NONE
AD28258-014	01/12/22 18:00	R12	5	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD28258-014	01/13/22 16:02	JN	5	A	BN/BNA
AD28258-015	01/12/22 08:00	MAXW	0	M	Received
AD28258-015	01/12/22 09:12	MAXW	0	M	Login
AD28258-015	01/12/22 10:50	R31	1	A	NONE
AD28258-015	01/13/22 13:02	SG	1	A	VOA
AD28258-015	01/12/22 10:50	R31	2	A	NONE
AD28258-015	01/12/22 09:18	R12	4	A	NONE
AD28258-015	01/12/22 18:00	R12	4	A	NONE
AD28258-015	01/13/22 16:02	JN	4	A	BN/BNA
AD28258-015	01/12/22 09:18	R12	5	A	NONE
AD28258-015	01/12/22 18:00	R12	5	A	NONE
AD28258-016	01/12/22 08:00	MAXW	0	M	Received
AD28258-016	01/12/22 09:12	MAXW	0	M	Login
AD28258-016	01/12/22 10:50	R31	1	A	NONE
AD28258-016	01/12/22 16:10	JM	1	A	VOA
AD28258-016	01/12/22 10:50	R31	2	A	NONE
AD28258-016	01/13/22 12:16	SG	2	M	VOA

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-001
Client Id: TMW-015
Data File: 2M162426.D
Analysis Date: 01/13/22 06:30
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (Not Reviewed)

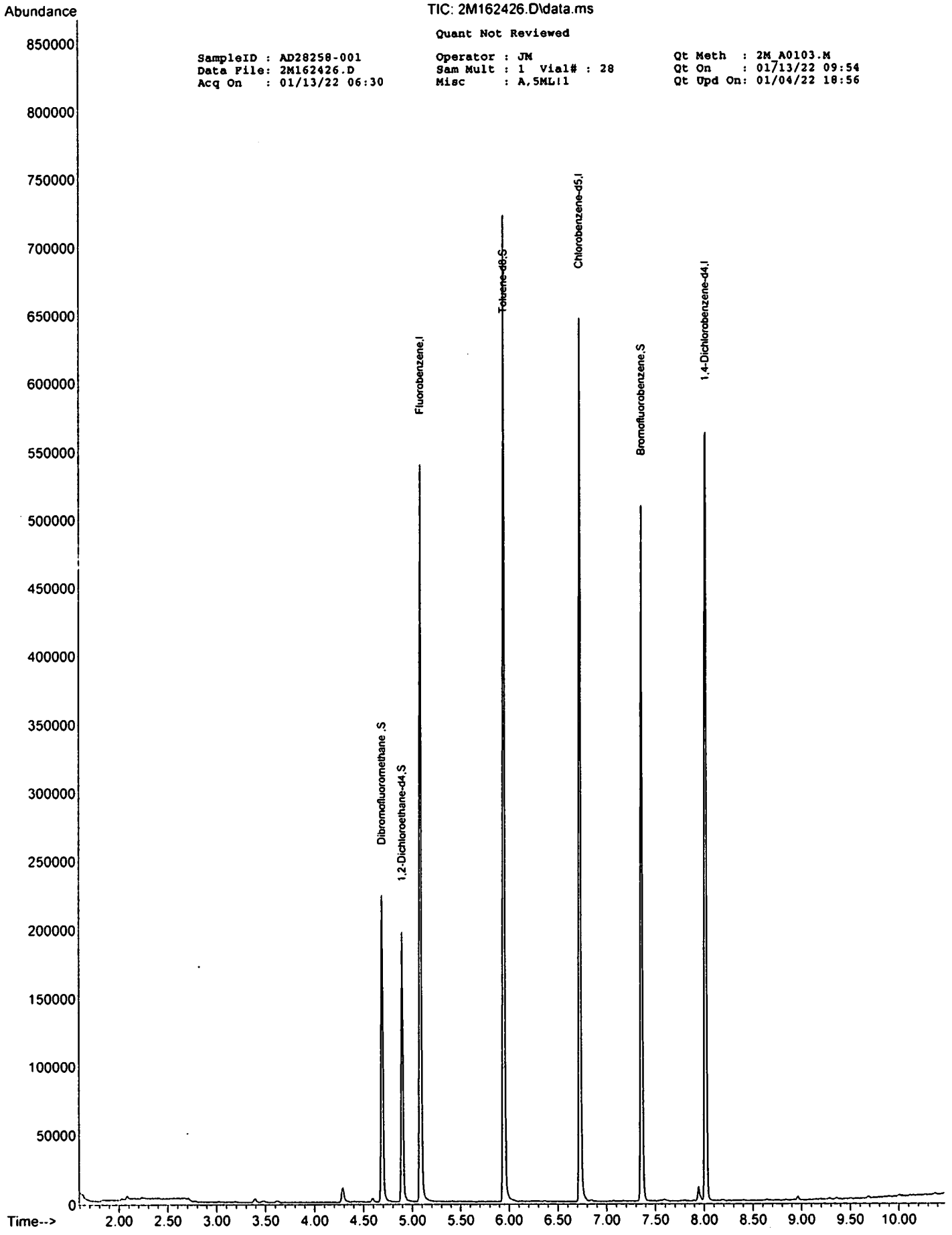
SampleID : AD28258-001 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162426.D Sam Mult : 1 Vial# : 28 Qt On : 01/13/22 09:54
Acq On : 01/13/22 06:30 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	315774	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	271210	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	125890	30.00	ug/l	0.00
System Monitoring Compounds						
.37) Dibromofluoromethane	4.690	111	89768	29.63	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.77%			
39) 1,2-Dichloroethane-d4	4.898	67	45031	29.18	ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.27%			
66) Toluene-d8	5.946	98	325075	28.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.20%			
76) Bromofluorobenzene	7.361	174	107320	29.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.97%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162426.D\data.ms
Quant Not Reviewed
SampleID : AD28258-001
Data File: 2M162426.D
Acq On : 01/13/22 06:30
Operator : JM
Sam Mult : 1 Vial# : 28
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:54
Qt Upd On: 01/04/22 18:56
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-002
Client Id: TMW-016
Data File: 2M162427.D
Analysis Date: 01/13/22 06:50
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

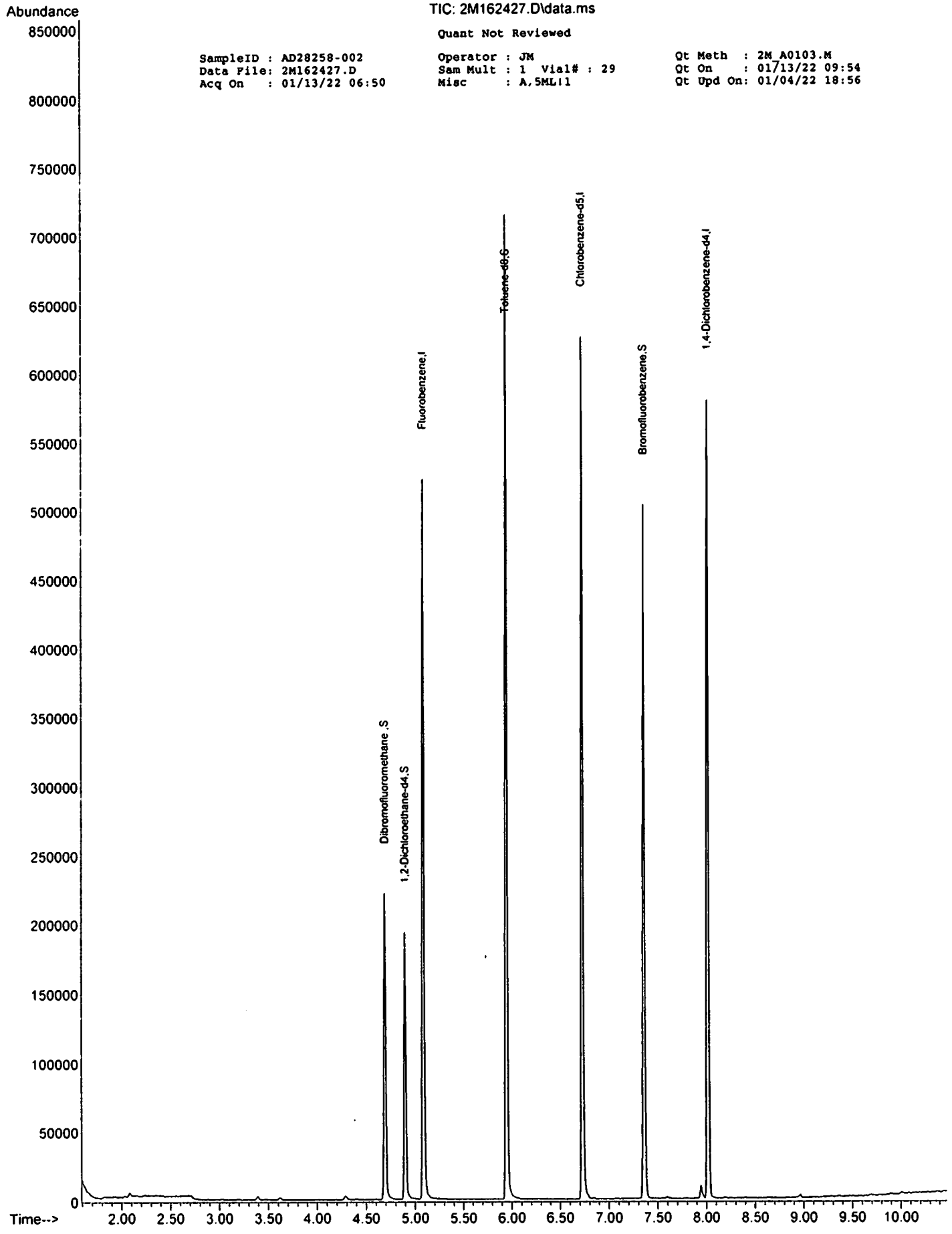
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD28258-002 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162427.D Sam Mult : 1 Vial# : 29 Qt On : 01/13/22 09:54
Acq On : 01/13/22 06:50 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	315627	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	265393	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	123300	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	90253	29.80	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.33%			
39) 1,2-Dichloroethane-d4	4.897	67	45209	29.31	ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.70%			
66) Toluene-d8	5.946	98	324880	29.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.20%			
76) Bromofluorobenzene	7.360	174	106790	29.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.53%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 2M162427.D\data.ms
Quant Not Reviewed
SampleID : AD28258-002
Data File: 2M162427.D
Acq On : 01/13/22 06:50
Operator : JM
Sam Mult : 1 Vial# : 29
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:54
Qt Upd On: 01/04/22 18:56
Abundance
Time-->
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-003
Client Id: TMW-017
Data File: 2M162428.D
Analysis Date: 01/13/22 07:10
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	**Carbon Disulfide**	**1.0**	**2.7**	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801 *Total Target Concentration* 2.7 ColumnID: (^) Indicates results from 2nd column

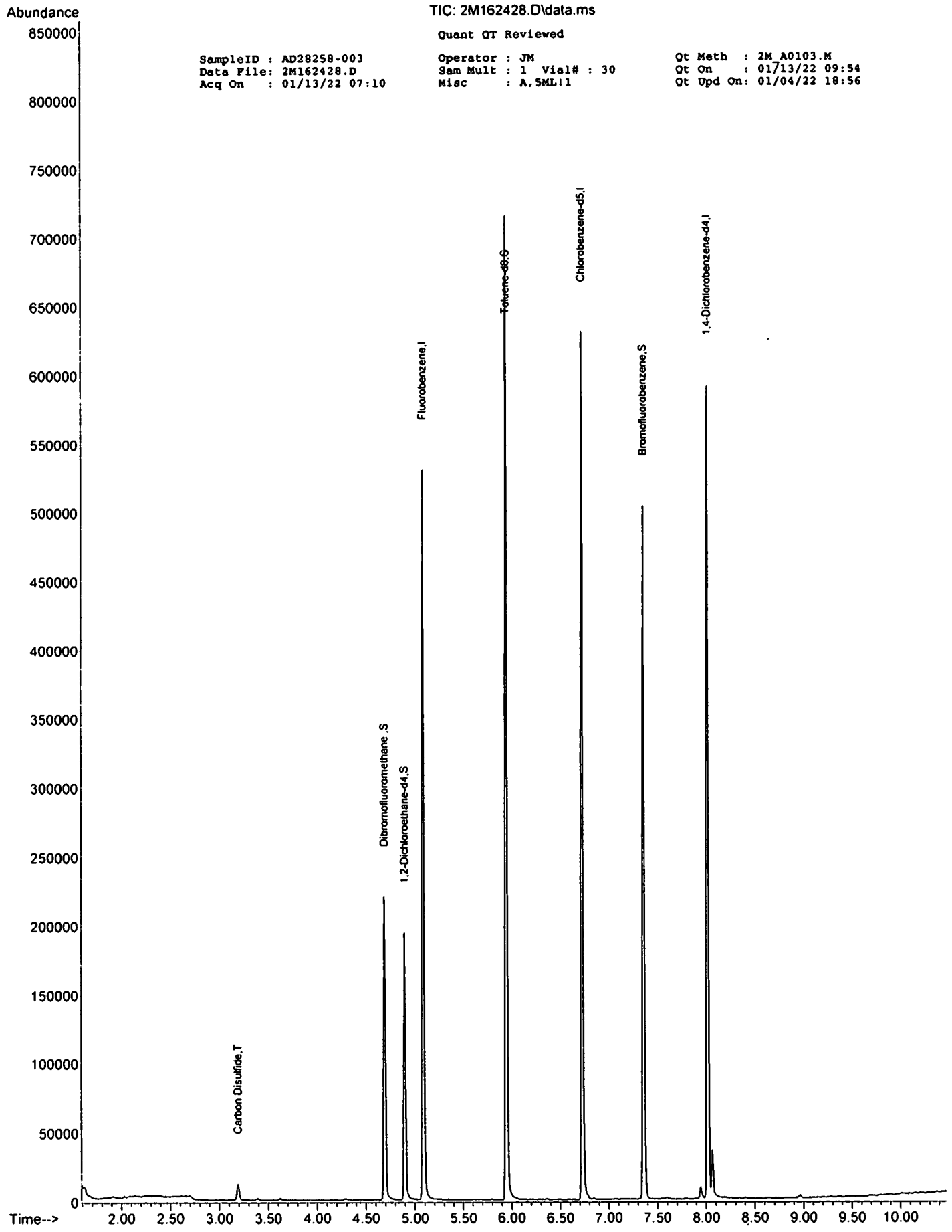
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD28258-003 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162428.D Sam Mult : 1 Vial# : 30 Qt On : 01/13/22 09:54
Acq On : 01/13/22 07:10 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	316582	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	266024	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	125502	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	89592	29.50	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.33%			
39) 1,2-Dichloroethane-d4	4.898	67	45512	29.41	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.03%			
66) Toluene-d8	5.946	98	325691	29.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.23%			
76) Bromofluorobenzene	7.361	174	106983	29.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.97%			
Target Compounds						Qvalue
20) Carbon Disulfide	3.191	76	14552	2.7247	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162428.D\data.ms
Quant QT Reviewed
SampleID : AD28258-003
Data File: 2M162428.D
Acq On : 01/13/22 07:10
Operator : JM
Sam Mult : 1 Vial# : 30
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:54
Qt Upd On: 01/04/22 18:56
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Carbon Disulfide,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-004
Client Id: TMW-018
Data File: 2M162429.D
Analysis Date: 01/13/22 07:30
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (Not Reviewed)

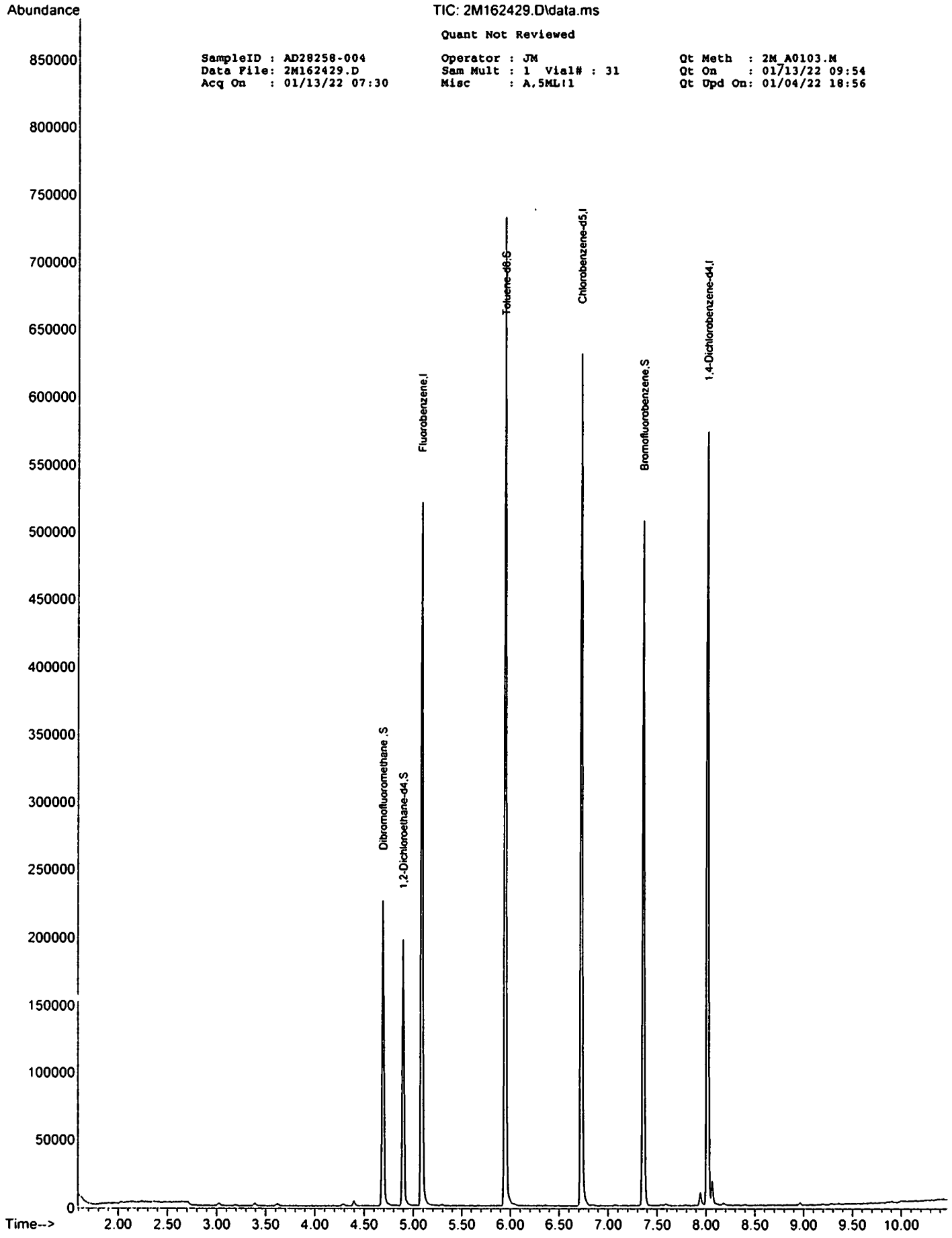
SampleID : AD28258-004 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162429.D Sam Mult : 1 Vial# : 31 Qt On : 01/13/22 09:54
Acq On : 01/13/22 07:30 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	314612	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	265327	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	122646	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	90402	29.95	ug/l	-0.01
Spiked Amount 30.000			Recovery =	99.83%		
39) 1,2-Dichloroethane-d4	4.897	67	46169	30.03	ug/l	-0.01
Spiked Amount 30.000			Recovery =	100.10%		
66) Toluene-d8	5.946	98	324074	29.10	ug/l	0.00
Spiked Amount 30.000			Recovery =	97.00%		
76) Bromofluorobenzene	7.360	174	106533	29.94	ug/l	0.00
Spiked Amount 30.000			Recovery =	99.80%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162429.D\data.ms
Quant Not Reviewed
SampleID : AD28258-004
Data File: 2M162429.D
Acq On : 01/13/22 07:30
Operator : JM
Sam Mult : 1 Vial# : 31
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:54
Qt Upd On: 01/04/22 18:56
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-005
Client Id: TMW-014D
Data File: 2M162431.D
Analysis Date: 01/13/22 08:10
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	**110-82-7**	**Cyclohexane**	**1.0**	**5.0**
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	**98-82-8**	**Isopropylbenzene**	**1.0**	**4.9**
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**15**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD28258-005 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162431.D Sam Mult : 1 Vial# : 33 Qt On : 01/13/22 09:55
Acq On : 01/13/22 08:10 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	308306	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	261947	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	123814	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	87318	29.52	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.40%			
39) 1,2-Dichloroethane-d4	4.898	67	44748	29.70	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.00%			
66) Toluene-d8	5.946	98	321908	29.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.60%			
76) Bromofluorobenzene	7.361	174	109007	30.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.17%			
Target Compounds						Qvalue
38) Cyclohexane	4.757	56	12903	5.0125	ug/l	84
46) Methylcyclohexane	5.404	83	39456	15.2291	ug/l	95
84) Isopropylbenzene	7.257	105	46603	4.8790	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

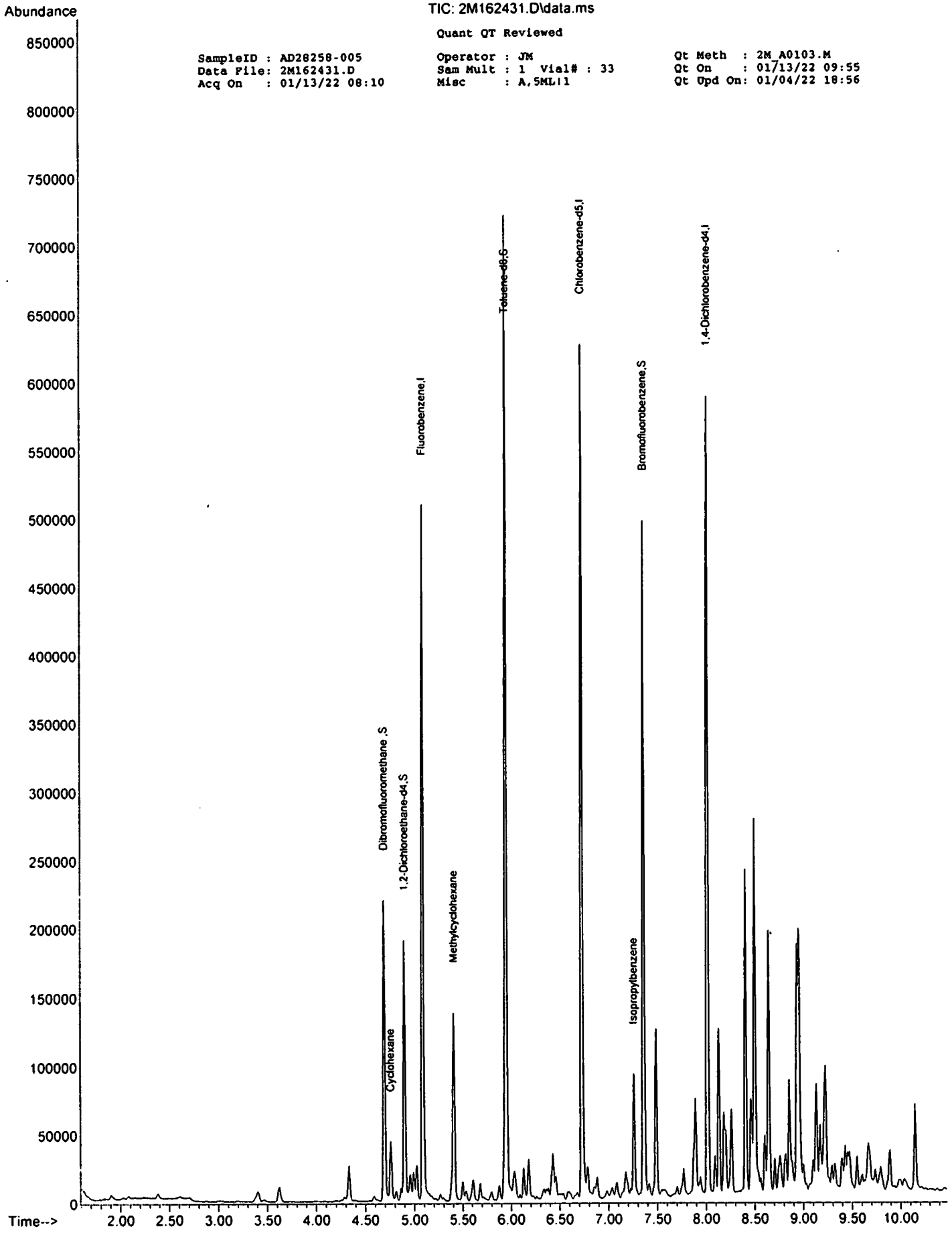
TIC: 2M162431.D\data.ms

Quant QT Reviewed

SampleID : AD28258-005
Data File: 2M162431.D
Acq On : 01/13/22 08:10

Operator : JM
Sam Mult : 1 Vial# : 33
Misc : A,5ML;1

Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:55
Qt Upd On: 01/04/22 18:56



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-006
Client Id: TMW-14S
Data File: 2M162432.D
Analysis Date: 01/13/22 08:29
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

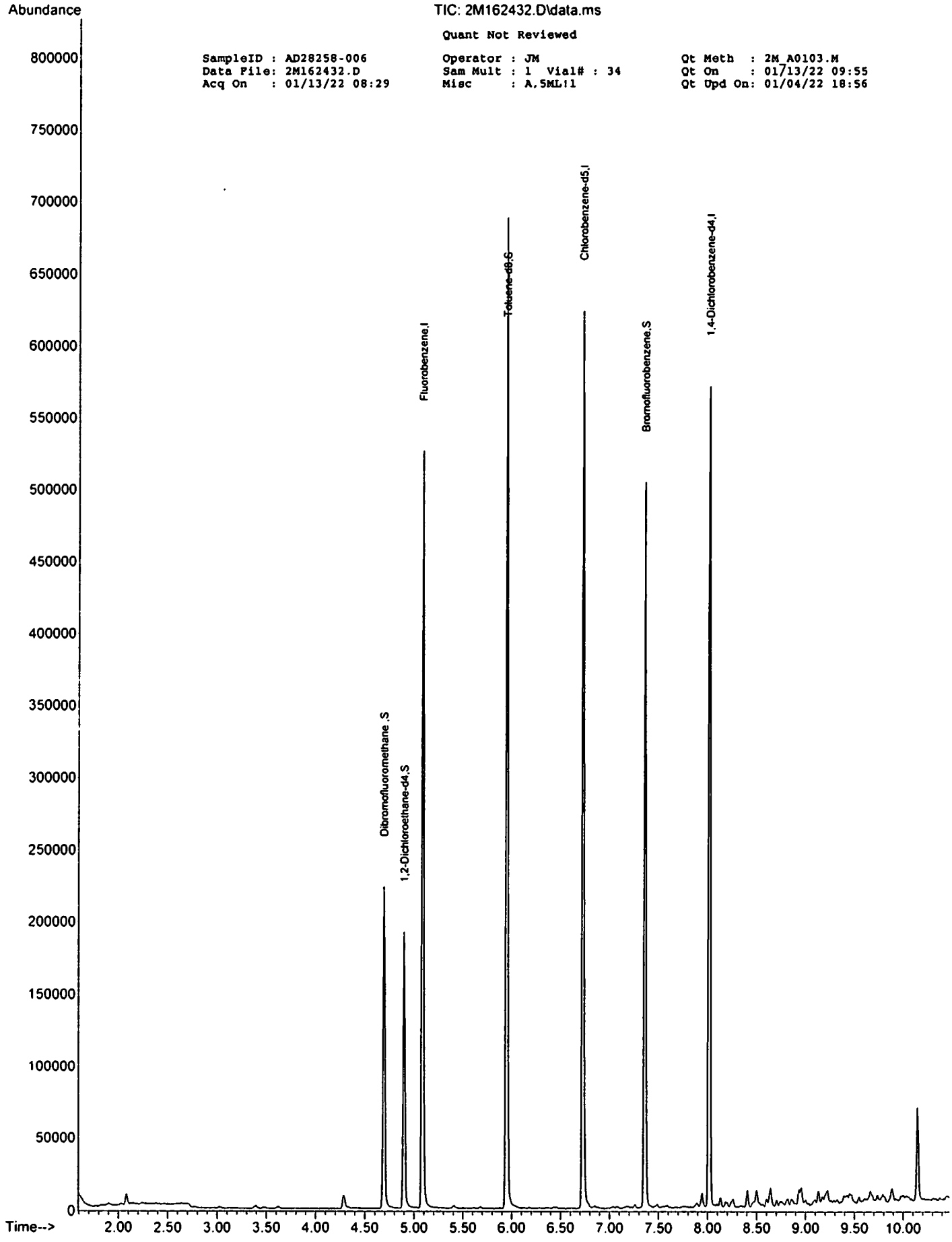
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD28258-006 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162432.D Sam Mult : 1 Vial# : 34 Qt On : 01/13/22 09:55
Acq On : 01/13/22 08:29 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	312840	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	263976	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	122888	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	90196	30.05	ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.17%			
39) 1,2-Dichloroethane-d4	4.898	67	44805	29.30	ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.67%			
66) Toluene-d8	5.946	98	321674	29.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.77%			
76) Bromofluorobenzene	7.361	174	107159	30.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.20%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162432.D\data.ms
Quant Not Reviewed
SampleID : AD28258-006
Data File: 2M162432.D
Acq On : 01/13/22 08:29
Operator : JM
Sam Mult : 1 Vial# : 34
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:55
Qt Upd On: 01/04/22 18:56
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-007
Client Id: TMW-012D
Data File: 2M162433.D
Analysis Date: 01/13/22 08:49
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**68**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**160**
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**58**
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**220**
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**5.3**
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

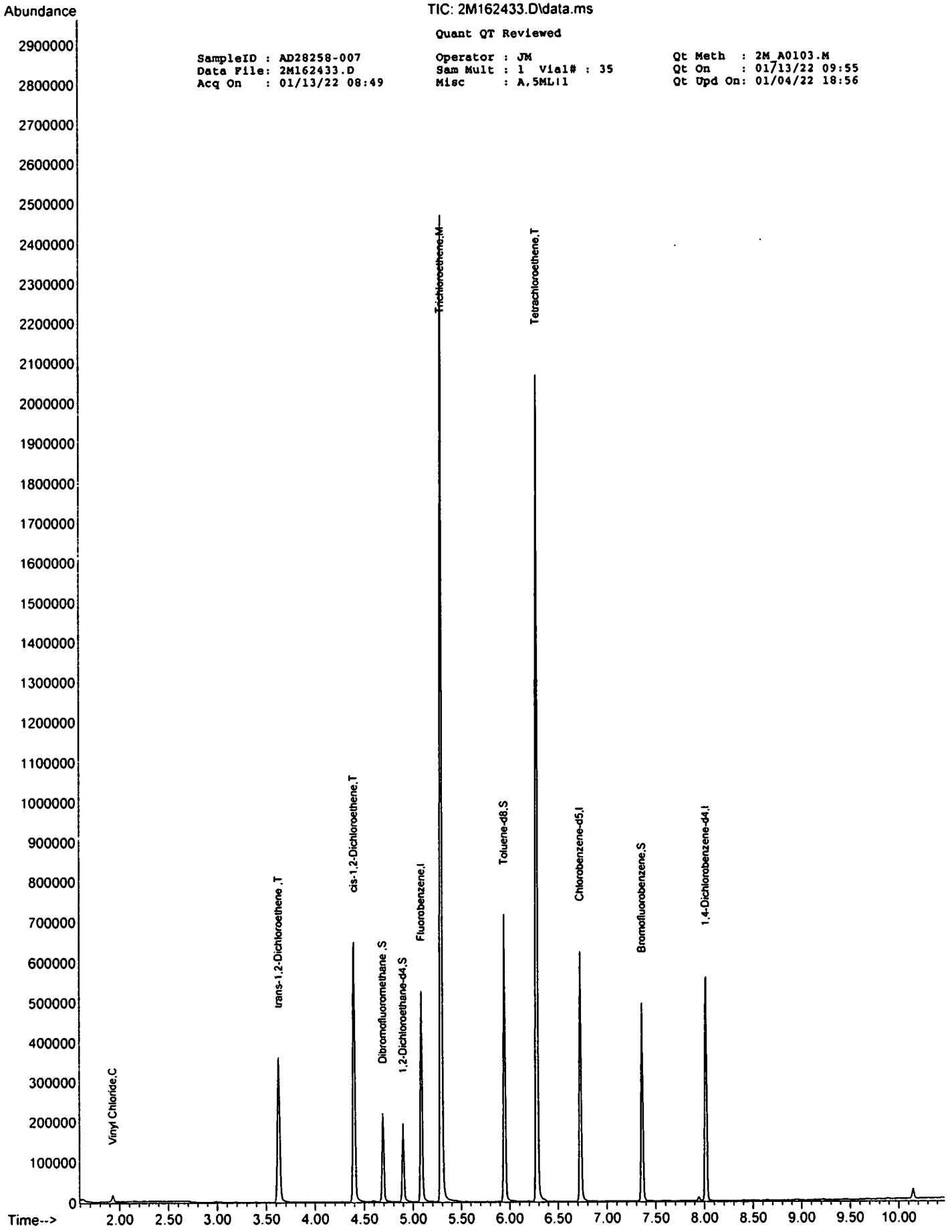
Quantitation Report (QT Reviewed)

SampleID : AD28258-007 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162433.D Sam Mult : 1 Vial# : 35 Qt On : 01/13/22 09:55
Acq On : 01/13/22 08:49 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	313316	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	262939	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	122566	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	88633	29.48	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.27%			
39) 1,2-Dichloroethane-d4	4.898	67	44473	29.04	ug/l	-0.01
Spiked Amount 30.000			Recovery = 96.80%			
66) Toluene-d8	5.946	98	323757	29.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.80%			
76) Bromofluorobenzene	7.361	174	105561	29.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.97%			
Target Compounds						Qvalue
9) Vinyl Chloride	1.929	62	11366	5.2963	ug/l	96
28) trans-1,2-Dichloroethene	3.630	96	131940	57.9737	ug/l	96
30) cis-1,2-Dichloroethene	4.398	61	255433	68.0842	ug/l	87
49) Trichloroethene	5.294	130	577209	220.4505	ug/l	99
65) Tetrachloroethene	6.281	164	327206	156.4429	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162433.D\data.ms
Quant QT Reviewed
SampleID : AD28258-007
Data File: 2M162433.D
Acq On : 01/13/22 08:49
Operator : JM
Sam Mult : 1 Vial# : 35
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:55
Qt Upd On: 01/04/22 18:56
Vinyl Chloride,C
trans-1,2-Dichloroethene ,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-008
Client Id: TMW-012S
Data File: 2M162434.D
Analysis Date: 01/13/22 09:09
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**15**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**66**
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**43**
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**21**
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**2.5**
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

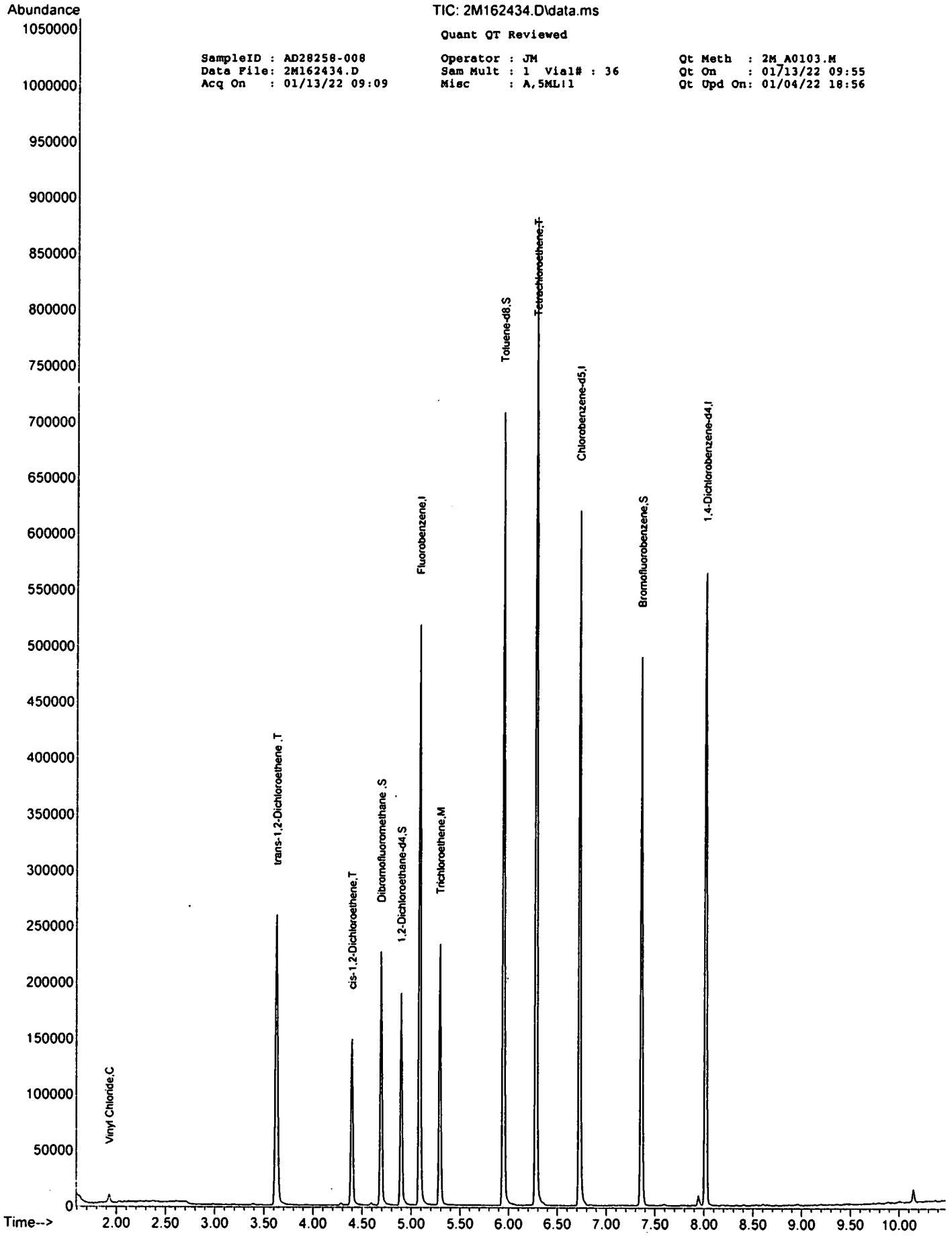
Quantitation Report (QT Reviewed)

SampleID : AD28258-008 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162434.D Sam Mult : 1 Vial# : 36 Qt On : 01/13/22 09:55
Acq On : 01/13/22 09:09 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	312768	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	264297	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	120692	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	89828	29.93	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.77%			
39) 1,2-Dichloroethane-d4	4.897	67	44860	29.35	ug/l	-0.01
Spiked Amount 30.000			Recovery = 97.83%			
66) Toluene-d8	5.946	98	324239	29.23	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.43%			
76) Bromofluorobenzene	7.360	174	106384	30.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.30%			
Target Compounds						Qvalue
9) Vinyl Chloride	1.928	62	5298	2.4731	ug/l	94
28) trans-1,2-Dichloroethene	3.629	96	96657	42.5450	ug/l	97
30) cis-1,2-Dichloroethene	4.398	61	57209	15.2755	ug/l	87
49) Trichloroethene	5.294	130	53727	20.5556	ug/l	98
65) Tetrachloroethene	6.281	164	139743	66.4703	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162434.D\data.ms
Quant QT Reviewed
SampleID : AD28258-008
Data File: 2M162434.D
Acq On : 01/13/22 09:09
Operator : JM
Sam Mult : 1 Vial# : 36
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:55
Qt Upd On: 01/04/22 18:56
Vinyl Chloride,C
trans-1,2-Dichloroethene,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-009
Client Id: TMW-13D
Data File: 2M162747.D
Analysis Date: 01/19/22 12:06
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**22**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**33**
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**7.7**
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**21**
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**4.7**
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

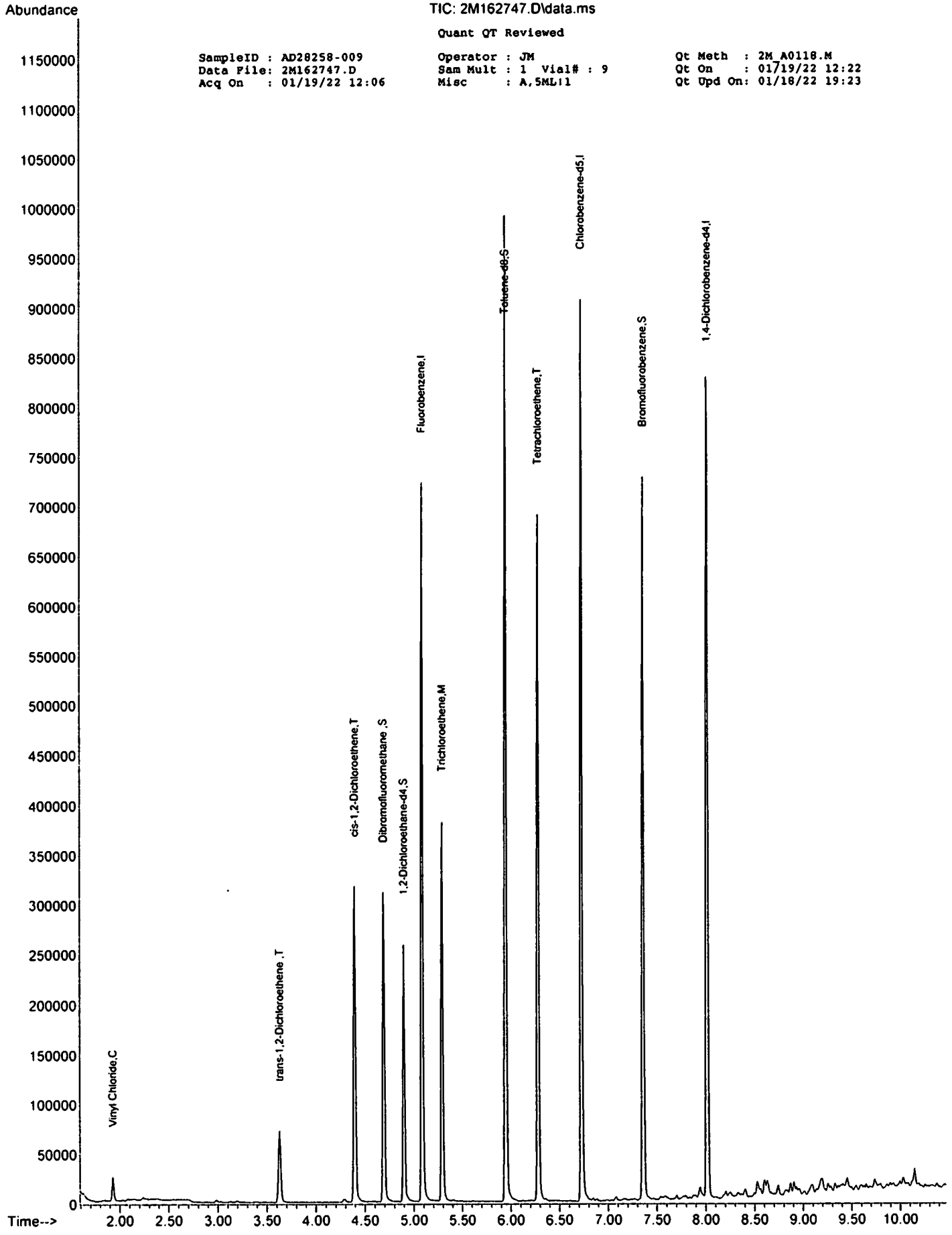
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD28258-009 Operator : JM Qt Meth : 2M_A0118.M
Data File: 2M162747.D Sam Mult : 1 Vial# : 9 Qt On : 01/19/22 12:22
Acq On : 01/19/22 12:06 Misc : A,5ML!1 Qt Upd On: 01/18/22 19:23

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-19-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	434441	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	383423	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	186346	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	123580	29.45	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.17%			
39) 1,2-Dichloroethane-d4	4.898	67	59012	30.35	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.17%			
66) Toluene-d8	5.946	98	451603	29.85	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.50%			
76) Bromofluorobenzene	7.361	174	169352	30.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.80%			
Target Compounds						Qvalue
9) Vinyl Chloride	1.929	62	17205	4.6806	ug/l	96
28) trans-1,2-Dichloroethene	3.630	96	27073	7.6618	ug/l	94
30) cis-1,2-Dichloroethene	4.398	61	120298	22.4979	ug/l	80
49) Trichloroethene	5.294	130	91434	21.0983	ug/l	99
65) Tetrachloroethene	6.282	164	114125	33.4377	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162747.D\data.ms
Quant QT Reviewed
SampleID : AD28258-009
Data File: 2M162747.D
Acq On : 01/19/22 12:06
Operator : JM
Sam Mult : 1 Vial# : 9
Misc : A,5ML;1
Qt Meth : 2M_A0118.M
Qt On : 01/19/22 12:22
Qt Upd On: 01/18/22 19:23
Vinyl Chloride,C
trans-1,2-Dichloroethene,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-010
Client Id: TMW-13S
Data File: 2M162748.D
Analysis Date: 01/19/22 12:26
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

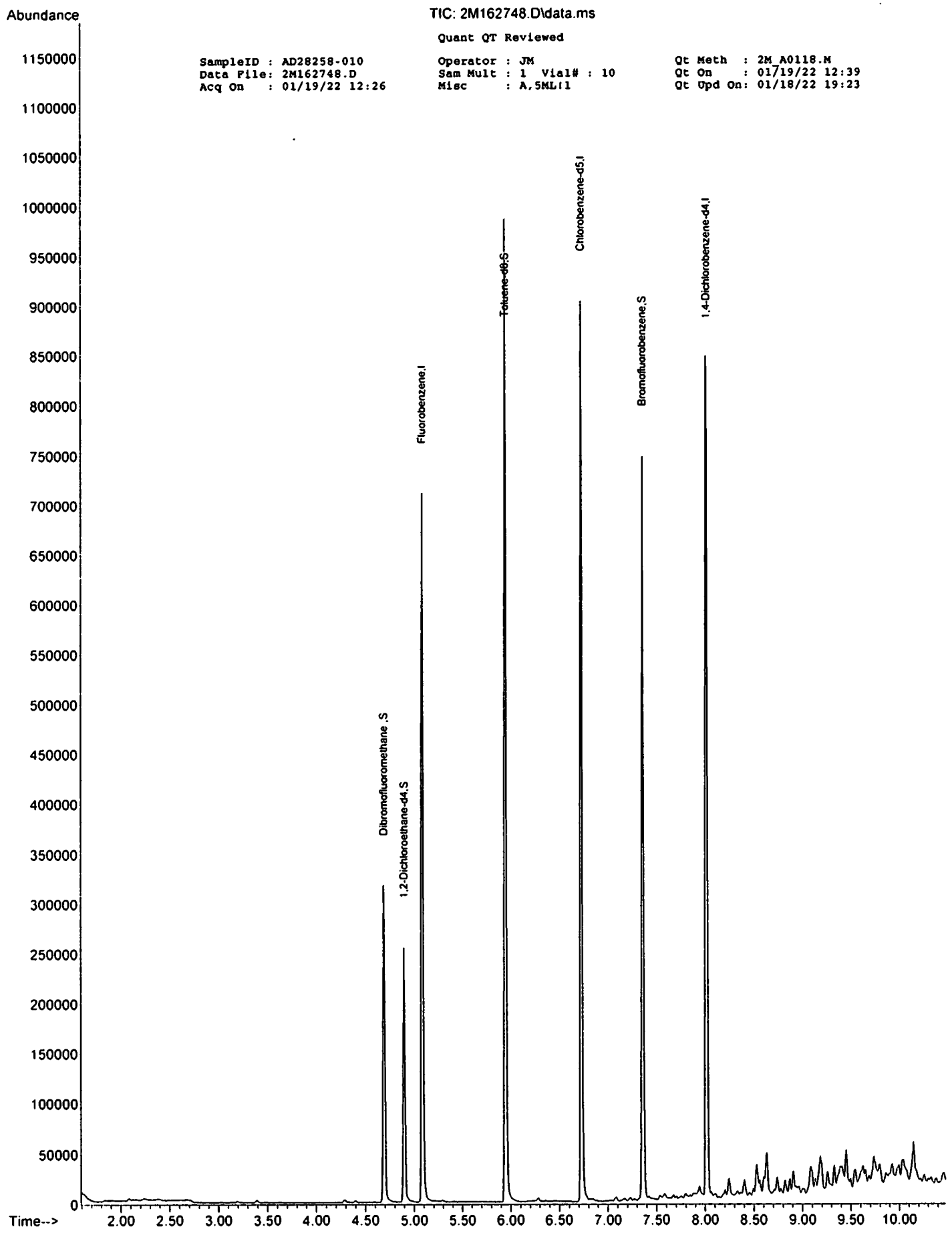
SampleID : AD28258-010 Operator : JM Qt Meth : 2M_A0118.M
Data File: 2M162748.D Sam Mult : 1 Vial# : 10 Qt On : 01/19/22 12:39
Acq On : 01/19/22 12:26 Misc : A,SML!1 Qt Upd On: 01/18/22 19:23

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-19-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	437012	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	390340	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	194830	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	124285	29.44	ug/l	-0.01
Spiked Amount 30.000			Recovery =	98.13%		
39) 1,2-Dichloroethane-d4	4.898	67	58916	30.13	ug/l	-0.01
Spiked Amount 30.000			Recovery =	100.43%		
66) Toluene-d8	5.946	98	452874	29.41	ug/l	0.00
Spiked Amount 30.000			Recovery =	98.03%		
76) Bromofluorobenzene	7.361	174	172464	29.45	ug/l	0.00
Spiked Amount 30.000			Recovery =	98.17%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162748.D\data.ms
Quant QT Reviewed
SampleID : AD28258-010
Data File: 2M162748.D
Acq On : 01/19/22 12:26
Operator : JM
Sam Mult : 1 Vial# : 10
Misc : A,5ML;1
Qt Meth : 2M_A0118.M
Qt On : 01/19/22 12:39
Qt Upd On: 01/18/22 19:23
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-011
Client Id: TMW-008S
Data File: 2M162750.D
Analysis Date: 01/19/22 13:06
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	**2-Butanone**	**1.0**	**12**	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	**Acetone**	**5.0**	**39**	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

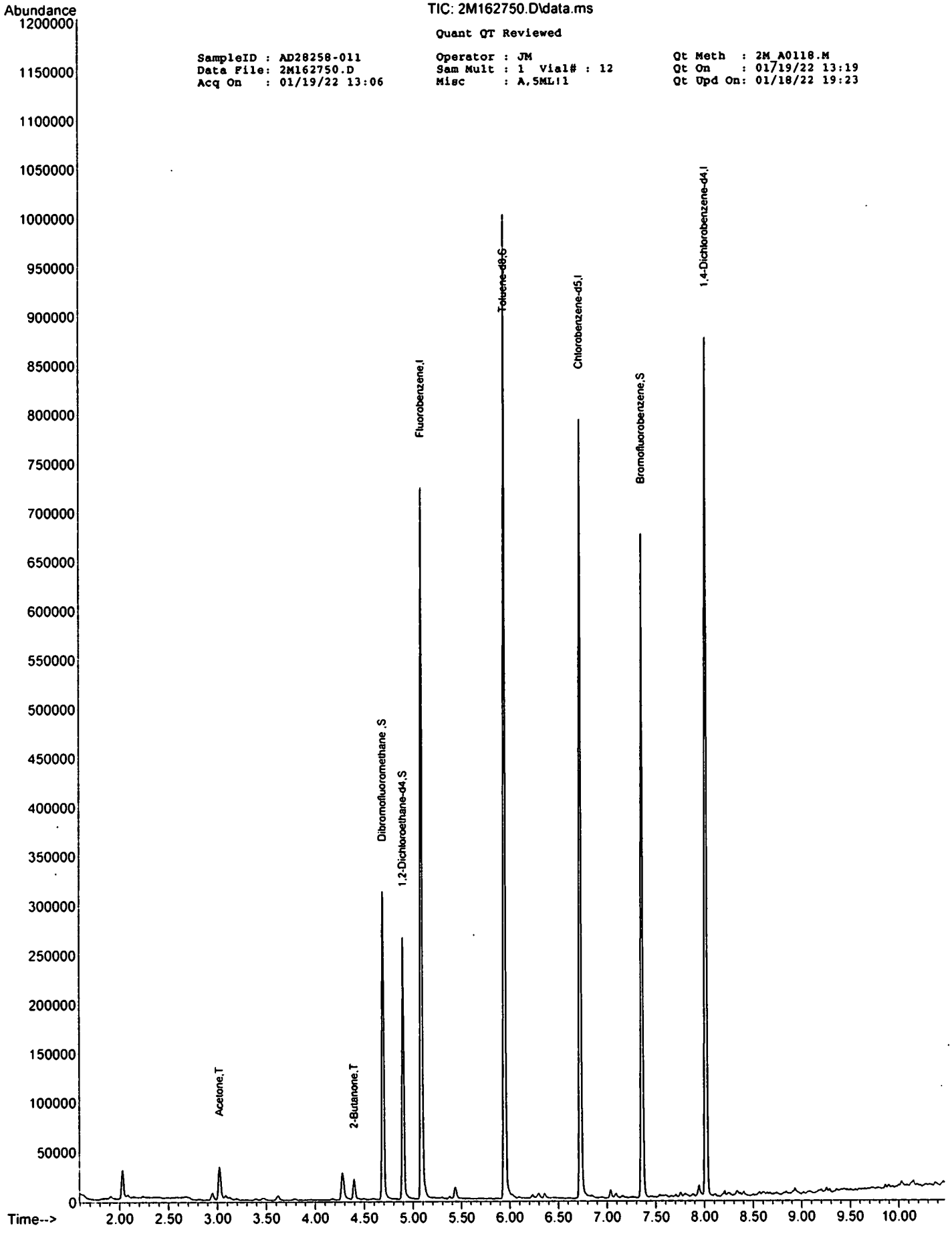
Quantitation Report (QT Reviewed)

SampleID : AD28258-011 Operator : JM Qt Meth : 2M_A0118.M
Data File: 2M162750.D Sam Mult : 1 Vial# : 12 Qt On : 01/19/22 13:19
Acq On : 01/19/22 13:06 Misc : A,5ML!1 Qt Upd On: 01/18/22 19:23

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-19-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	436825	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	355476	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	193401	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	125654	29.78	ug/l	-0.01
Spiked Amount 30.000			Recovery =	99.27%		
39) 1,2-Dichloroethane-d4	4.897	67	61116	31.26	ug/l	-0.01
Spiked Amount 30.000			Recovery =	104.20%		
66) Toluene-d8	5.946	98	458798	32.71	ug/l	0.00
Spiked Amount 30.000			Recovery =	109.03%		
76) Bromofluorobenzene	7.360	174	163816	28.18	ug/l	0.00
Spiked Amount 30.000			Recovery =	93.93%		
Target Compounds						Qvalue
19) Acetone	3.019	43	37693	39.4434	ug/l	96
41) 2-Butanone	4.397	43	16778	11.9242	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 2M162750.D\data.ms
Quant QT Reviewed
SampleID : AD28258-011
Data File: 2M162750.D
Acq On : 01/19/22 13:06
Operator : JM
Sam Mult : 1 Vial# : 12
Misc : A,5ML;1
Qt Meth : 2M_A0118.M
Qt On : 01/19/22 13:19
Qt Upd On: 01/18/22 19:23
Abundance
Time-->
Acetone,T
2-Butanone,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-012
Client Id: TMW-008D
Data File: 2M162469.D
Analysis Date: 01/13/22 20:50
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	**1634-04-4**	**Methyl-t-butyl ether**	**0.50**	**0.74**
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0.74

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

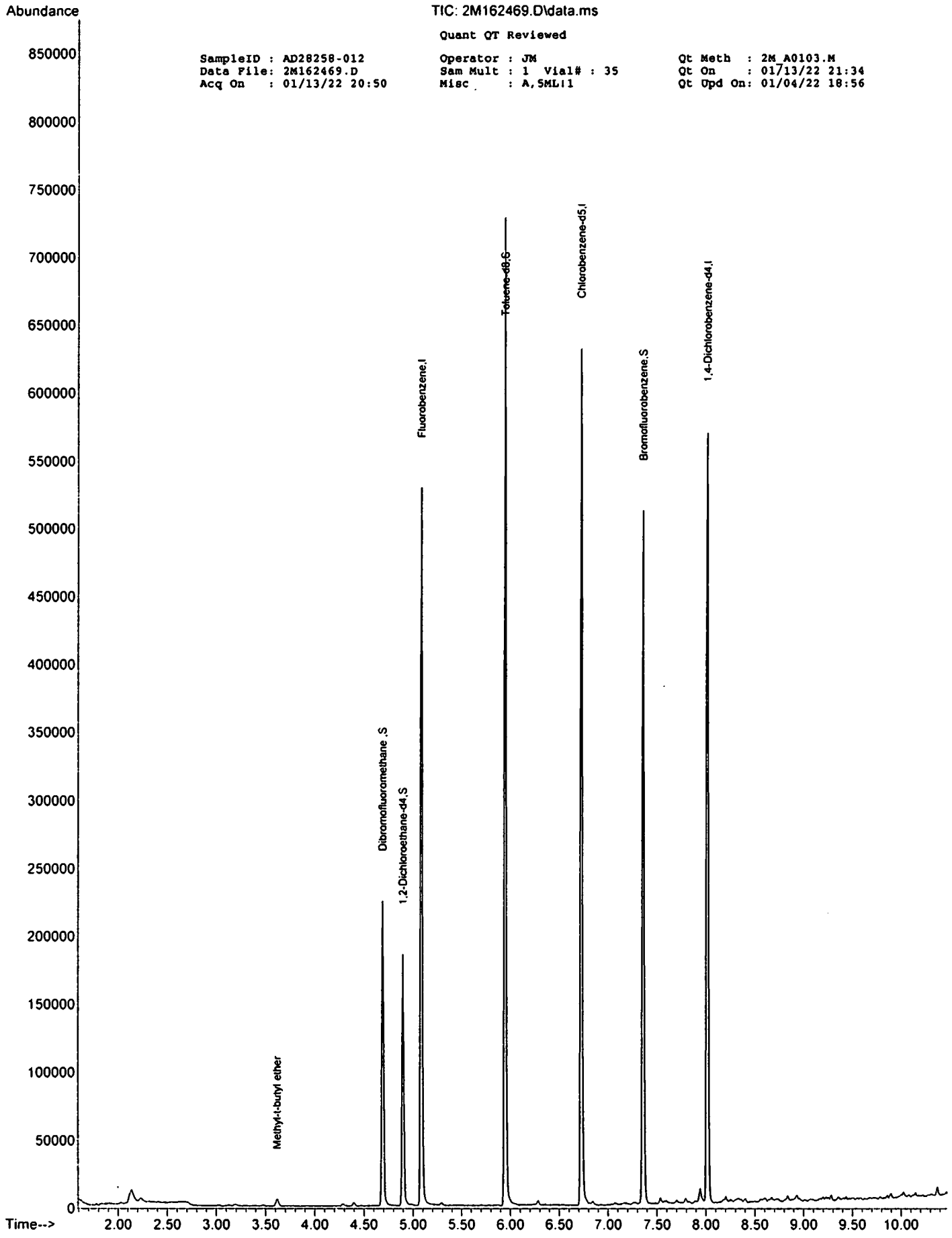
Quantitation Report (QT Reviewed) **2011202 0100**

SampleID : AD28258-012 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162469.D Sam Mult : 1 Vial# : 35 Qt On : 01/13/22 21:34
Acq On : 01/13/22 20:50 Misc : A,SML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-13-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	315919	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	268294	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	125370	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	89313	29.47	ug/l	-0.01
Spiked Amount 30.000			Recovery =	98.23%		
39) 1,2-Dichloroethane-d4	4.898	67	43644	28.27	ug/l	-0.01
Spiked Amount 30.000			Recovery =	94.23%		
66) Toluene-d8	5.946	98	327598	29.09	ug/l	0.00
Spiked Amount 30.000			Recovery =	96.97%		
76) Bromofluorobenzene	7.361	174	109066	29.99	ug/l	0.00
Spiked Amount 30.000			Recovery =	99.97%		
Target Compounds						Qvalue
26) Methyl-t-butyl ether	3.617	73	4983	0.7445	ug/l	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162469.D\data.ms
Quant QT Reviewed
SampleID : AD28258-012
Data File: 2M162469.D
Acq On : 01/13/22 20:50
Operator : JM
Sam Mult : 1 Vial# : 35
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 21:34
Qt Upd On: 01/04/22 18:56
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-013
Client Id: TMW-009S
Data File: 2M162470.D
Analysis Date: 01/13/22 21:09
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

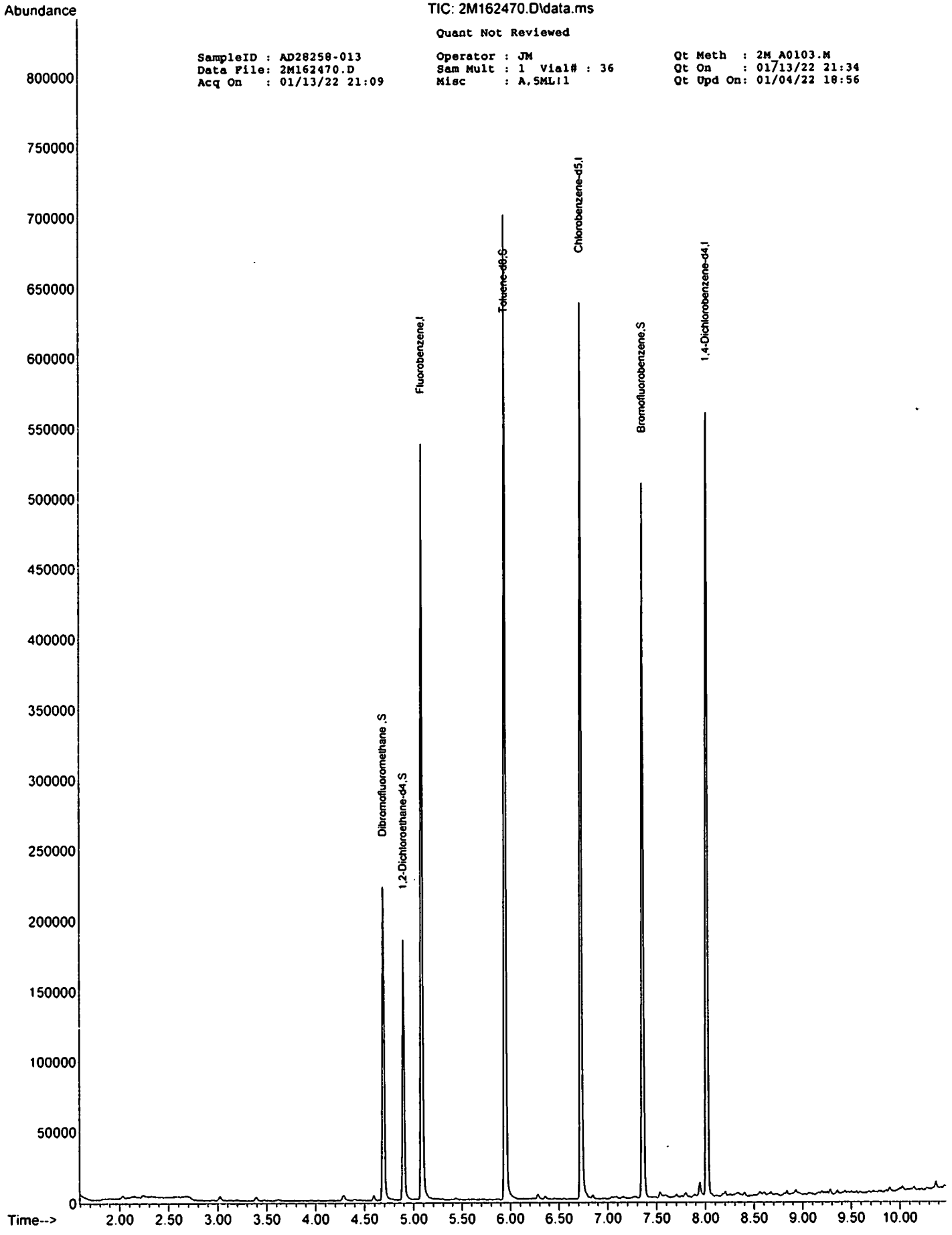
U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD28258-013 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162470.D Sam Mult : 1 Vial# : 36 Qt On : 01/13/22 21:34
Acq On : 01/13/22 21:09 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-13-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	315164	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	266969	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	123746	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	89235	29.51	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.37%			
39) 1,2-Dichloroethane-d4	4.898	67	42271	27.44	ug/l	-0.01
Spiked Amount 30.000			Recovery = 91.47%			
66) Toluene-d8	5.946	98	325441	29.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.80%			
76) Bromofluorobenzene	7.361	174	108216	30.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.50%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162470.D\data.ms
Quant Not Reviewed
SampleID : AD28258-013
Data File: 2M162470.D
Acq On : 01/13/22 21:09
Operator : JM
Sam Mult : 1 Vial# : 36
Misc : A,5ML!1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 21:34
Qt Upd On: 01/04/22 18:56
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-014
Client Id: TMW-009D
Data File: 2M162471.D
Analysis Date: 01/13/22 21:29
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

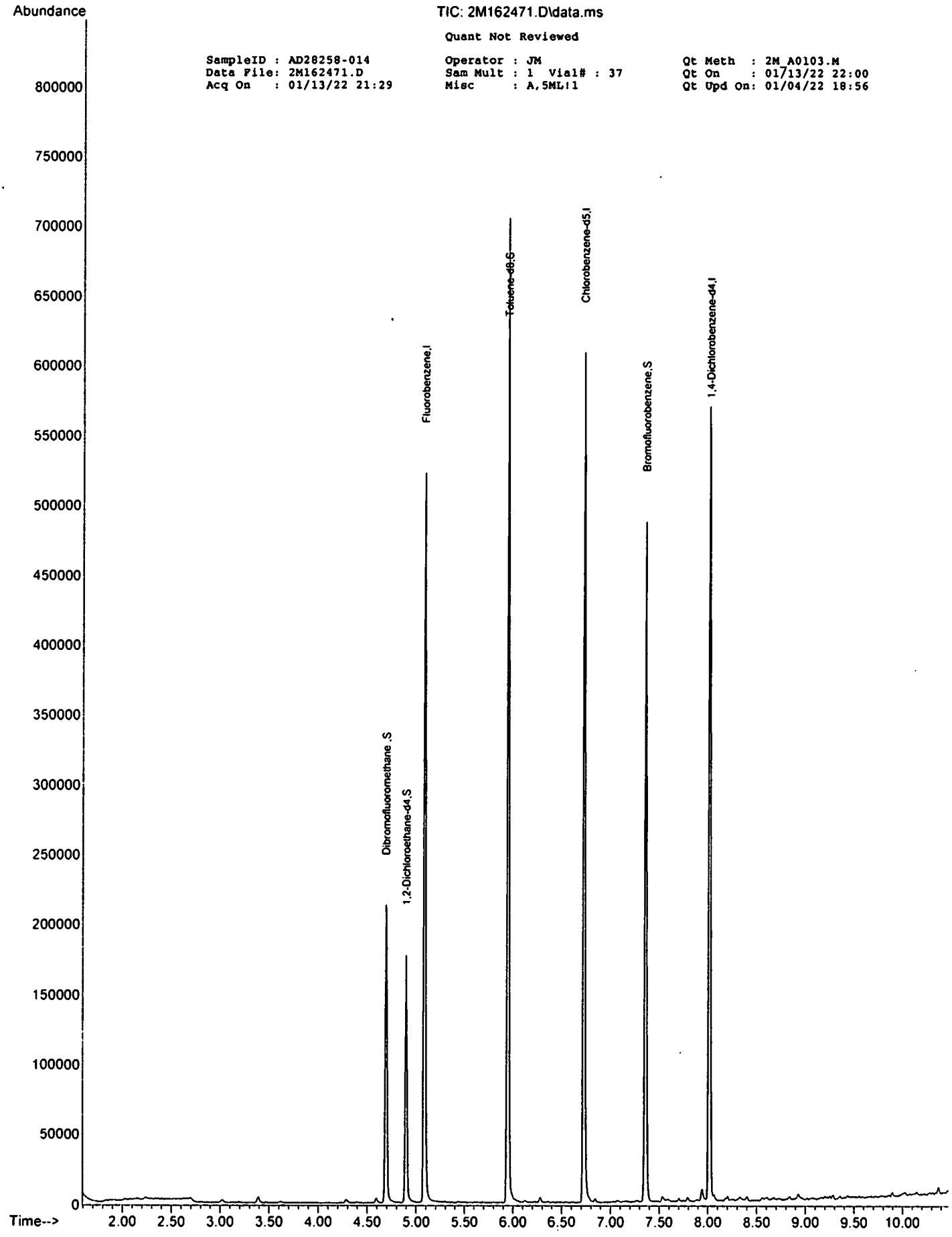
Quantitation Report (Not Reviewed)

SampleID : AD28258-014 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162471.D Sam Mult : 1 Vial# : 37 Qt On : 01/13/22 22:00
Acq On : 01/13/22 21:29 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-13-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	308583	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	259886	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	122002	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	87471	29.54	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.47%			
39) 1,2-Dichloroethane-d4	4.898	67	41565	27.56	ug/l	-0.01
Spiked Amount 30.000			Recovery = 91.87%			
66) Toluene-d8	5.946	98	319324	29.27	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.57%			
76) Bromofluorobenzene	7.361	174	106361	30.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.17%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162471.D\data.ms
Quant Not Reviewed
SampleID : AD28258-014
Data File: 2M162471.D
Acq On : 01/13/22 21:29
Operator : JM
Sam Mult : 1 Vial# : 37
Misc : A,5ML;1
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 22:00
Qt Upd On: 01/04/22 18:56
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-015
Client Id: TMW-011
Data File: 2M162472.D
Analysis Date: 01/13/22 21:49
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**24**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	**110-82-7**	**Cyclohexane**	**1.0**	**62**
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	**98-82-8**	**Isopropylbenzene**	**1.0**	**90**
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**100**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	**Benzene**	**0.50**	**2.8**	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**2.0**
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**1.8**
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**43**
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

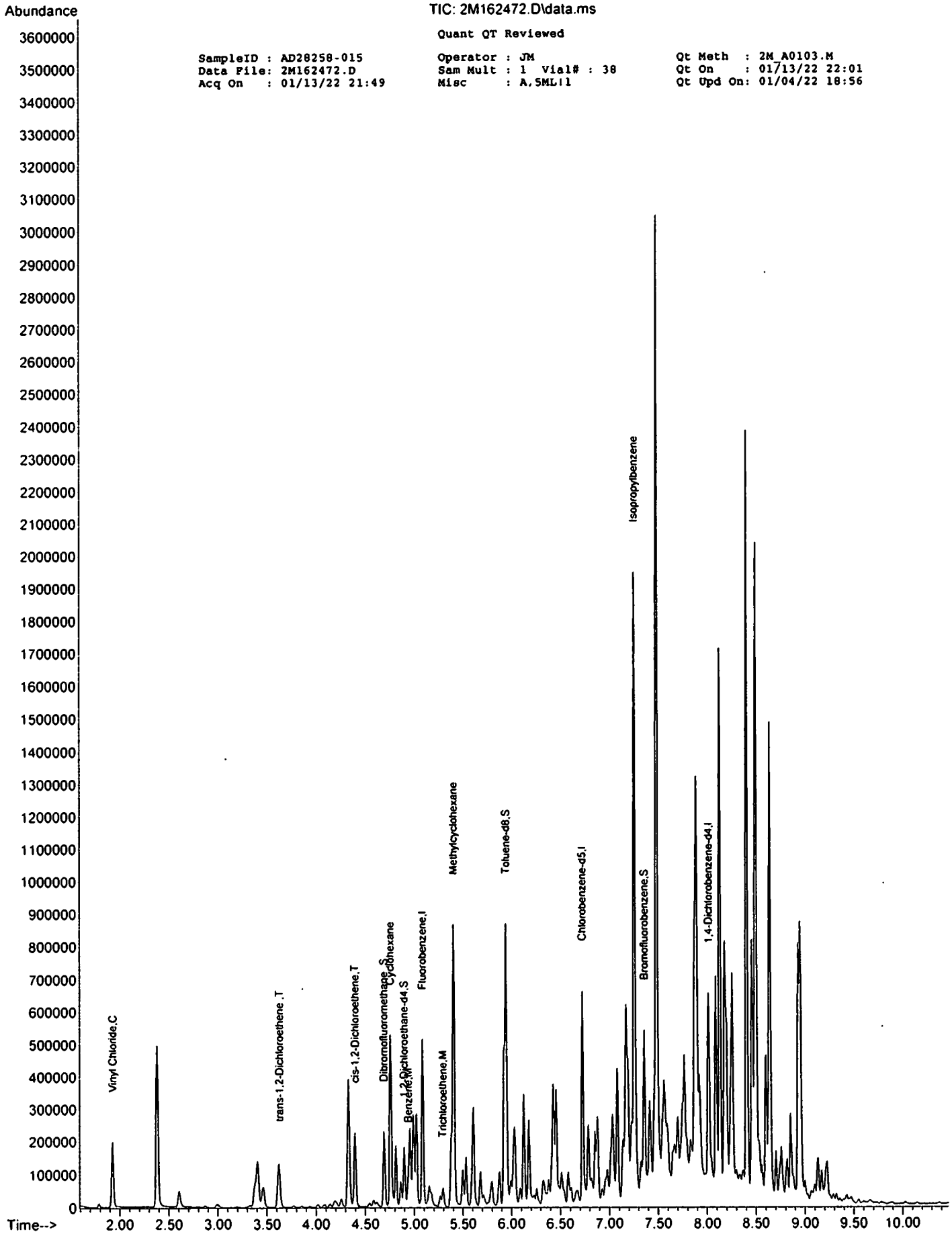
Quantitation Report (QT Reviewed) **2011202 0109**

SampleID : AD28258-015 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162472.D Sam Mult : 1 Vial# : 38 Qt On : 01/13/22 22:01
Acq On : 01/13/22 21:49 Misc : A,5ML!1 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-13-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	304432	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	260770	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	130732	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	87783	30.05	ug/l	-0.01
Spiked Amount 30.000			Recovery =	100.17%		
39) 1,2-Dichloroethane-d4	4.898	67	42172	28.34	ug/l	-0.01
Spiked Amount 30.000			Recovery =	94.47%		
66) Toluene-d8	5.946	98	330157	30.16	ug/l	0.00
Spiked Amount 30.000			Recovery =	100.53%		
76) Bromofluorobenzene	7.361	174	109342	28.83	ug/l	0.00
Spiked Amount 30.000			Recovery =	96.10%		
Target Compounds						Qvalue
9) Vinyl Chloride	1.929	62	88983	42.6742	ug/l	97
28) trans-1,2-Dichloroethene	3.630	96	4340	1.9626	ug/l	97
30) cis-1,2-Dichloroethene	4.398	61	87432	23.9846	ug/l	87
38) Cyclohexane	4.757	56	156467	61.5566	ug/l	84
46) Methylcyclohexane	5.404	83	255309	99.7973	ug/l	91
49) Trichloroethene	5.294	130	4607	1.8109	ug/l	86
50) Benzene	4.940	78	23382	2.8053	ug/l	100
84) Isopropylbenzene	7.257	105	906094	89.8417	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162472.D\data.ms
Quant QT Reviewed
SampleID : AD28258-015
Data File: 2M162472.D
Acq On : 01/13/22 21:49
Operator : JM
Sam Mult : 1 Vial# : 38
Misc : A,SML11
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 22:01
Qt Upd On: 01/04/22 18:56
Vinyl Chloride,C
trans-1,2-Dichloroethene,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Benzene,M
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Toluene-d8,S
Chlorobenzene-d5,I
Isopropylbenzene
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD28258-016
Client Id: TRIP BLANK
Data File: 2M162464.D
Analysis Date: 01/13/22 19:11
Date Rec/Extracted: 01/12/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

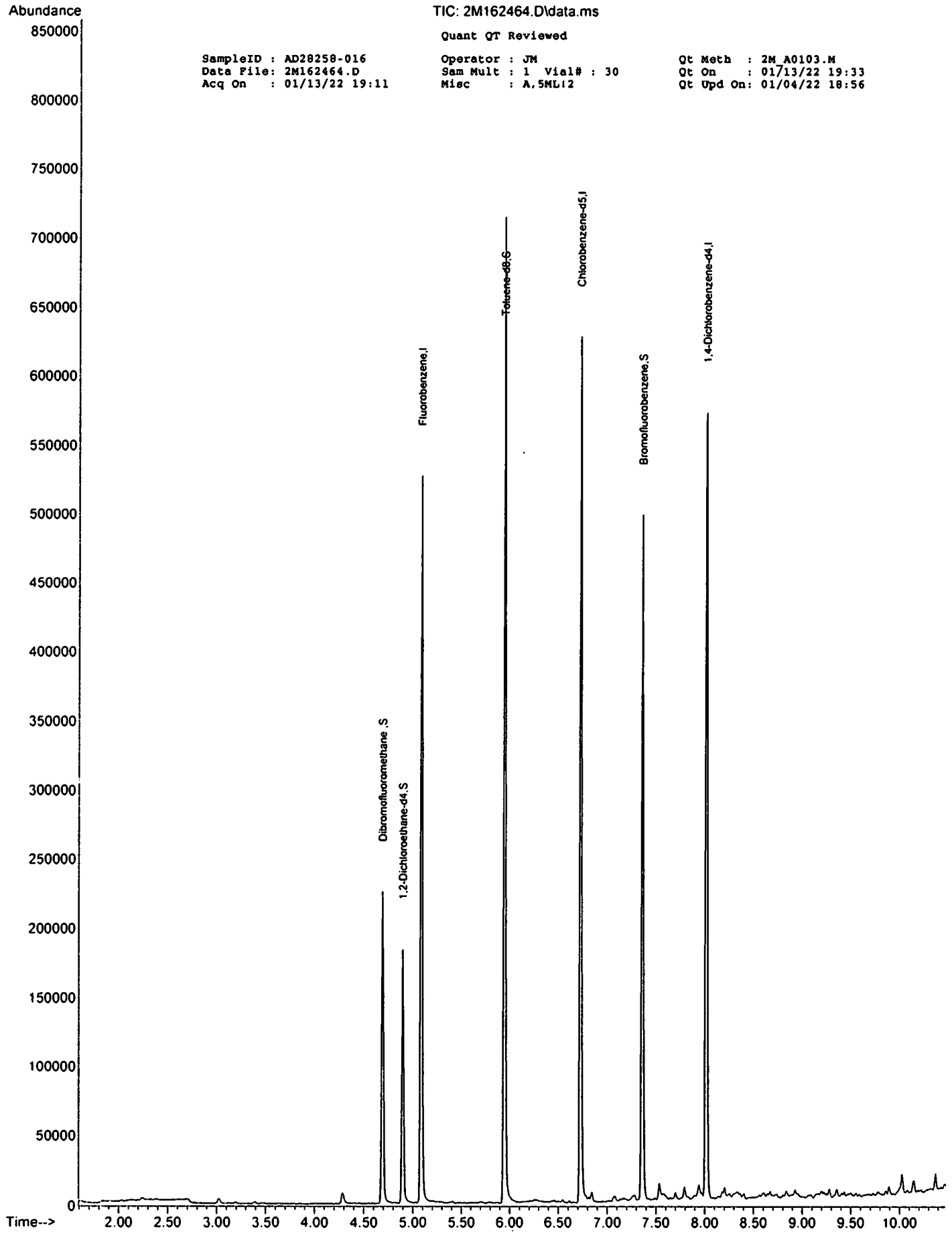
SampleID : AD28258-016 Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162464.D Sam Mult : 1 Vial# : 30 Qt On : 01/13/22 19:33
Acq On : 01/13/22 19:11 Misc : A,5ML!2 Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-13-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	314438	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	265525	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	125386	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	89538	29.68	ug/l	-0.01
Spiked Amount 30.000			Recovery = 98.93%			
39) 1,2-Dichloroethane-d4	4.898	67	41936	27.29	ug/l	-0.01
Spiked Amount 30.000			Recovery = 90.97%			
66) Toluene-d8	5.946	98	329390	29.55	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.50%			
76) Bromofluorobenzene	7.361	174	109413	30.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.27%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162464.D\data.ms
Quant QT Reviewed
SampleID : AD28258-016
Data File: 2M162464.D
Acq On : 01/13/22 19:11
Operator : JM
Sam Mult : 1 Vial# : 30
Misc : A,5ML;2
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 19:33
Qt Upd On: 01/04/22 18:56
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M162410.D
Analysis Date: 01/13/22 01:12
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U				

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

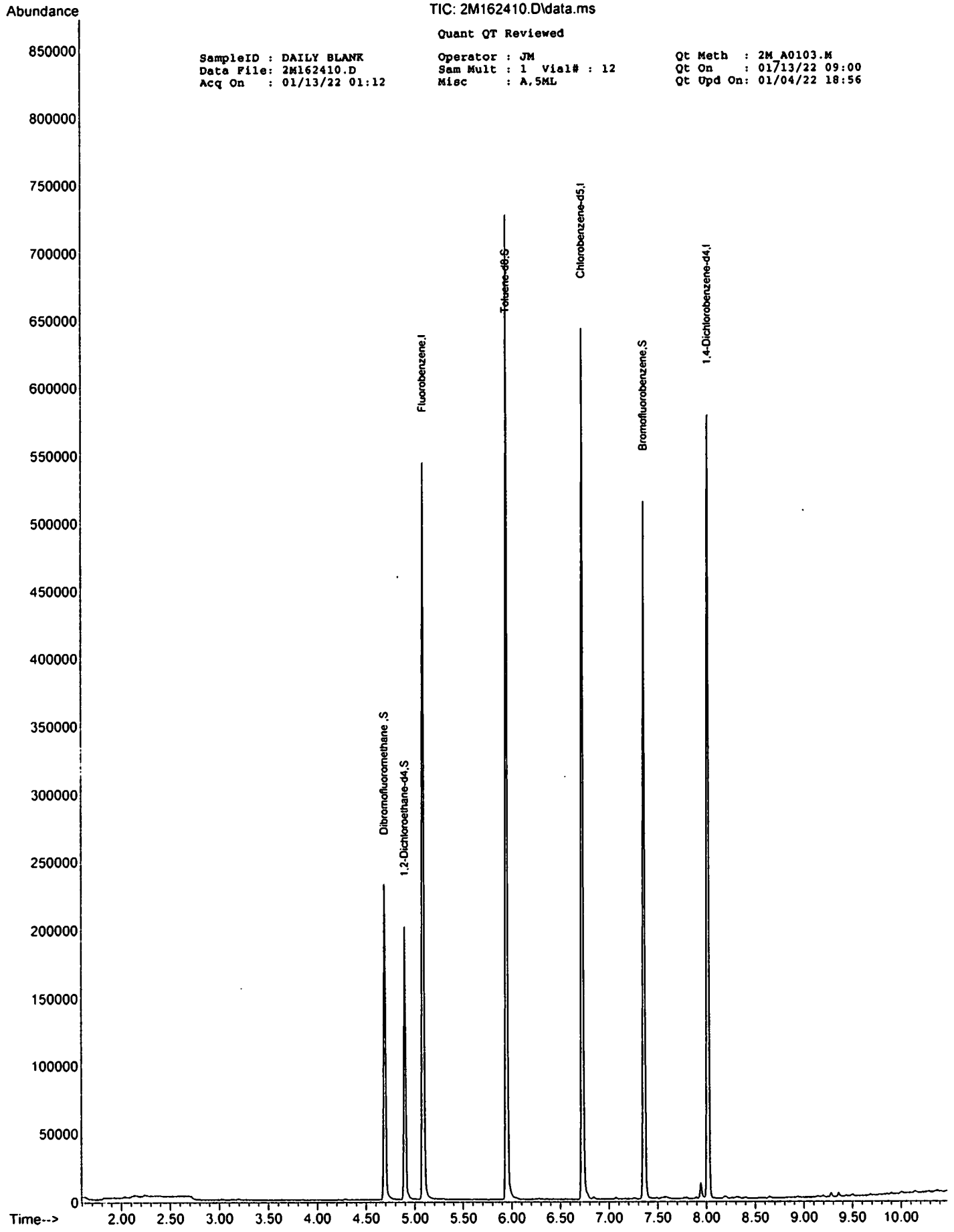
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162410.D Sam Mult : 1 Vial# : 12 Qt On : 01/13/22 09:00
Acq On : 01/13/22 01:12 Misc : A,5ML Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	326105	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	271311	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	128733	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	92151	29.45	ug/l	-0.01
Spiked Amount 30.000			Recovery =	98.17%		
39) 1,2-Dichloroethane-d4	4.898	67	45860	28.77	ug/l	-0.01
Spiked Amount 30.000			Recovery =	95.90%		
66) Toluene-d8	5.946	98	333829	29.31	ug/l	0.00
Spiked Amount 30.000			Recovery =	97.70%		
76) Bromofluorobenzene	7.360	174	110651	29.63	ug/l	0.00
Spiked Amount 30.000			Recovery =	98.77%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162410.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M162410.D
Acq On : 01/13/22 01:12
Operator : JM
Sam Mult : 1 Vial# : 12
Misc : A,5ML
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 09:00
Qt Upd On: 01/04/22 18:56
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M162445.D
Analysis Date: 01/13/22 12:54
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U				

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

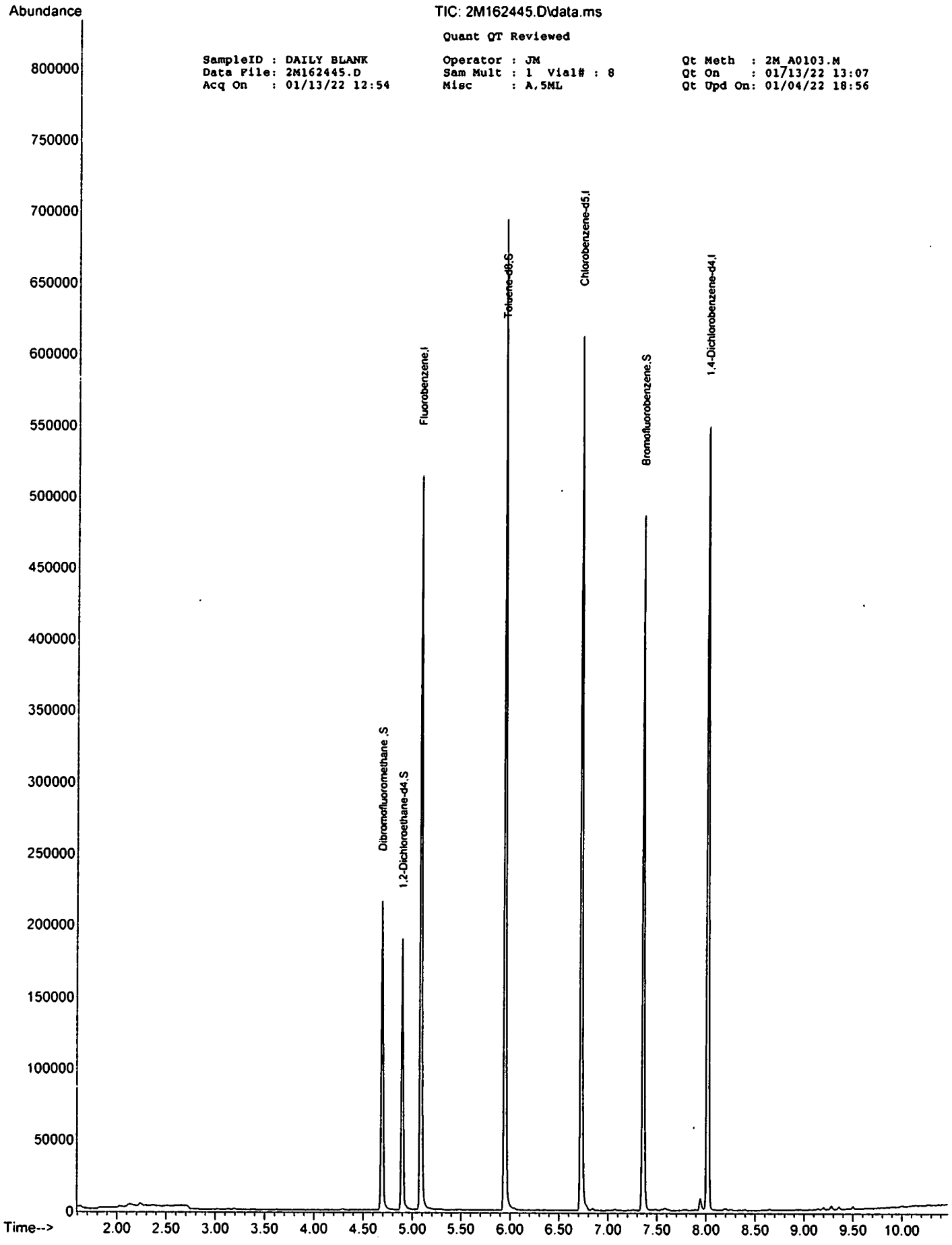
Quantitation Report (QT Reviewed) **2011202 0118**

SampleID : DAILY BLANK Operator : JM Qt Meth : 2M_A0103.M
Data File: 2M162445.D Sam Mult : 1 Vial# : 8 Qt On : 01/13/22 13:07
Acq On : 01/13/22 12:54 Misc : A,5ML Qt Upd On: 01/04/22 18:56

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-13-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.087	96	305068	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.727	117	258115	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	119264	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	85741	29.29	ug/l	-0.01
Spiked Amount 30.000			Recovery =	97.63%		
39) 1,2-Dichloroethane-d4	4.898	67	43359	29.08	ug/l	-0.01
Spiked Amount 30.000			Recovery =	96.93%		
66) Toluene-d8	5.946	98	316193	29.19	ug/l	0.00
Spiked Amount 30.000			Recovery =	97.30%		
76) Bromofluorobenzene	7.361	174	103286	29.85	ug/l	0.00
Spiked Amount 30.000			Recovery =	99.50%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162445.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M162445.D
Acq On : 01/13/22 12:54
Operator : JM
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 2M_A0103.M
Qt On : 01/13/22 13:07
Qt Upd On: 01/04/22 18:56
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M162746.D
Analysis Date: 01/19/22 11:46
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.64	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	75-65-0	t-Butyl Alcohol	5.0	U
107-02-8	Acrolein	5.0	U	127-18-4	Tetrachloroethene	1.0	U
107-13-1	Acrylonitrile	1.0	U	108-88-3	Toluene	1.0	U
71-43-2	Benzene	0.50	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	79-01-6	Trichloroethene	1.0	U
75-25-2	Bromoform	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
74-83-9	Bromomethane	1.0	U	75-01-4	Vinyl Chloride	1.0	U
75-15-0	Carbon Disulfide	1.0	U				

Worksheet #: 625801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK
Data File: 2M162746.D
Acq On : 01/19/22 11:46

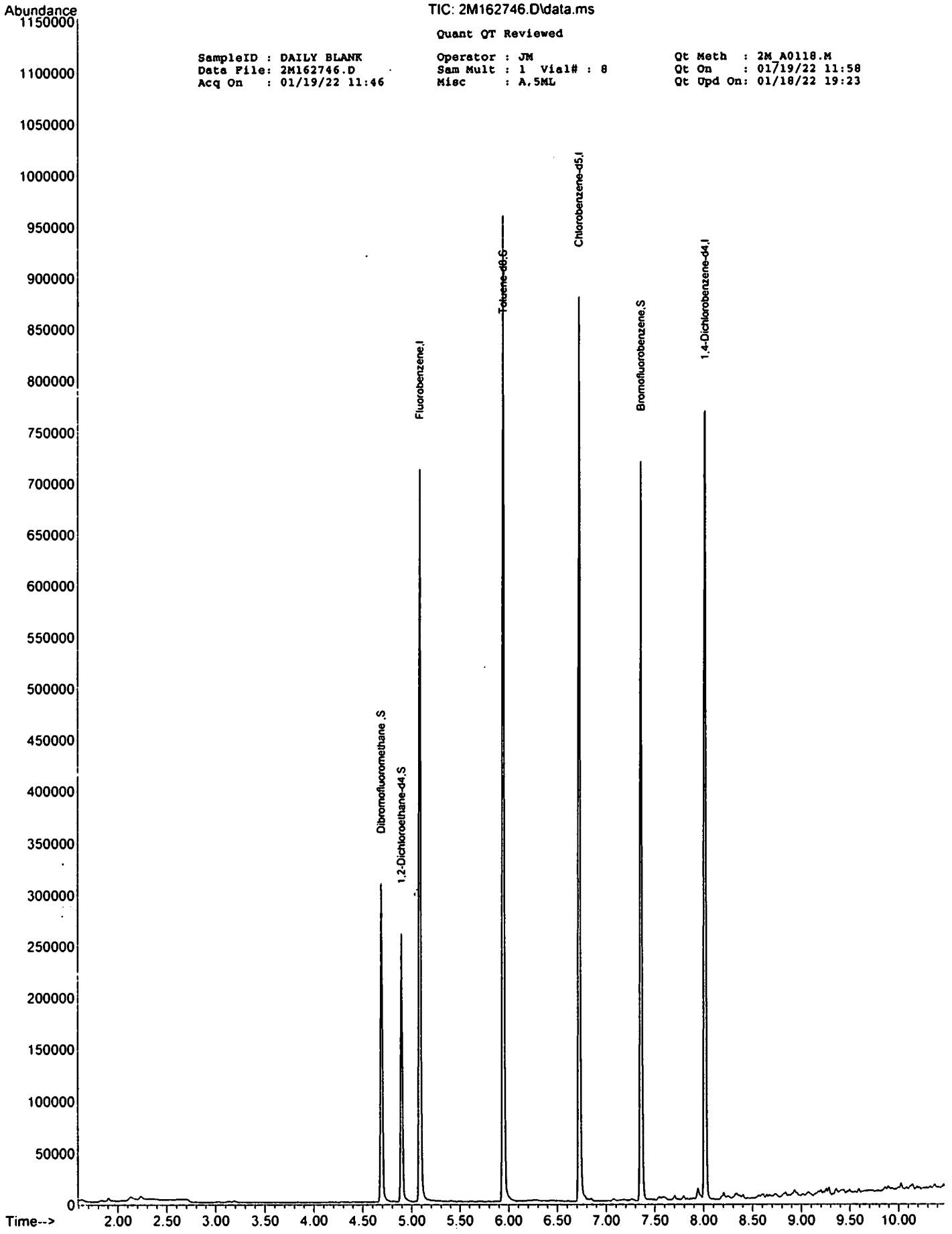
Operator : JM
Sam Mult : 1 Vial# : 8
Misc : A,SML

Qt Meth : 2M_A0118.M
Qt On : 01/19/22 11:58
Qt Upd On: 01/18/22 19:23

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-19-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	424419	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.726	117	380607	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	178332	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	122369	29.85	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.50%			
39) 1,2-Dichloroethane-d4	4.897	67	57856	30.46	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.53%			
66) Toluene-d8	5.946	98	450470	30.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.00%			
76) Bromofluorobenzene	7.360	174	165858	30.94	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.13%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M162746.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M162746.D
Acq On : 01/19/22 11:46
Operator : JM
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 2M_A0118.M
Qt On : 01/19/22 11:58
Qt Upd On: 01/18/22 19:23
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2M162410.D	DAILY BLANK	A	01/13/22 01:12	1		98	96	98	99		
2M162445.D	DAILY BLANK	A	01/13/22 12:54	1		98	97	97	100		
2M162746.D	DAILY BLANK	A	01/19/22 11:46	1		99	102	100	103		
2M162426.D	AD28258-001	A	01/13/22 06:30	1		99	97	95	98		
2M162427.D	AD28258-002	A	01/13/22 06:50	1		99	98	97	100		
2M162428.D	AD28258-003	A	01/13/22 07:10	1		98	98	97	98		
2M162429.D	AD28258-004	A	01/13/22 07:30	1		100	100	97	100		
2M162431.D	AD28258-005	A	01/13/22 08:10	1		98	99	98	101		
2M162432.D	AD28258-006	A	01/13/22 08:29	1		100	98	97	100		
2M162433.D	AD28258-007	A	01/13/22 08:49	1		98	97	98	99		
2M162434.D	AD28258-008	A	01/13/22 09:09	1		100	98	97	101		
2M162747.D	AD28258-009	A	01/19/22 12:06	1		98	101	100	101		
2M162748.D	AD28258-010	A	01/19/22 12:26	1		98	100	98	98		
2M162750.D	AD28258-011	A	01/19/22 13:06	1		99	104	109	94		
2M162469.D	AD28258-012	A	01/13/22 20:50	1		98	94	97	100		
2M162470.D	AD28258-013	A	01/13/22 21:09	1		98	91	97	100		
2M162471.D	AD28258-014	A	01/13/22 21:29	1		98	92	98	100		
2M162472.D	AD28258-015	A	01/13/22 21:49	1		100	94	101	96		
2M162464.D	AD28258-016	A	01/13/22 19:11	1		99	91	99	100		
2M162412.D	AD28256-003	A	01/13/22 01:52	1		99	97	97	99		
2M162416.D	AD28256-008(MS:AD28	A	01/13/22 03:11	1		100	99	97	100		
2M162417.D	AD28256-009(MSD:AD2	A	01/13/22 03:31	1		101	98	96	99		
2M162435.D	MBS99290	A	01/13/22 09:29	1		100	97	98	100		
2M162446.D	AD28247-010	A	01/13/22 13:14	1		100	100	97	101		
2M162449.D	MBS99292	A	01/13/22 14:14	1		98	93	98	101		
2M162459.D	AD28247-010(MS)	A	01/13/22 17:32	1		99	94	97	100		
2M162460.D	AD28247-010(MSD)	A	01/13/22 17:51	1		101	89	97	104		
2M162752.D	MBS99326	A	01/19/22 13:45	1		101	98	105	99		
2M162763.D	AD28258-010(MS)	A	01/19/22 17:24	1		101	103	101	97		
2M162764.D	AD28258-010(MSD)	A	01/19/22 17:43	1		102	104	100	98		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99290

Data File: Spike or Dup: 2M162435.D
Sample ID: MBS99290
Analysis Date: 1/13/2022 9:29:00 AM
Non Spike(If applicable):
Inst Blank(If applicable):

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	22.0947	0	20	110	50	150
Dichlorodifluoromethane	1	19.191	0	20	96	50	150
Chloromethane	1	18.188	0	20	91	50	150
Bromomethane	1	21.7942	0	20	109	50	150
Vinyl Chloride	1	20.5129	0	20	103	50	150
Chloroethane	1	21.2487	0	20	106	50	150
Trichlorofluoromethane	1	23.1133	0	20	116	50	150
Ethyl ether	1	17.9451	0	20	90	50	150
Furan	1	17.0019	0	20	85	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.5339	0	20	113	50	150
Methylene Chloride	1	22.6578	0	20	113	70	130
Acrolein	1	74.3407	0	100	74	50	150
Acrylonitrile	1	16.1174	0	20	81	50	150
Iodomethane	1	19.7128	0	20	99	50	150
Acetone	1	76.4841	0	100	76	50	150
Carbon Disulfide	1	19.9226	0	20	100	50	150
t-Butyl Alcohol	1	64.9834	0	100	65	50	150
n-Hexane	1	21.1941	0	20	106	70	130
Di-isopropyl-ether	1	20.4438	0	20	102	70	130
1,1-Dichloroethene	1	21.3269	0	20	107	70	130
Methyl Acetate	1	16.1405	0	20	81	50	150
Methyl-t-butyl ether	1	20.4367	0	20	102	70	130
1,1-Dichloroethane	1	21.9568	0	20	110	70	130
trans-1,2-Dichloroethene	1	22.2312	0	20	111	70	130
Ethyl-t-butyl ether	1	19.7813	0	20	99	70	130
cis-1,2-Dichloroethene	1	21.3253	0	20	107	70	130
Bromochloromethane	1	22.8517	0	20	114	70	130
2,2-Dichloropropane	1	21.5386	0	20	108	70	130
Ethyl acetate	1	17.0604	0	20	85	50	150
1,4-Dioxane	1	792.5733	0	1000	79	50	150
1,1-Dichloropropene	1	22.1768	0	20	111	70	130
Chloroform	1	22.6723	0	20	113	70	130
Cyclohexane	1	21.0485	0	20	105	70	130
1,2-Dichloroethane	1	21.7369	0	20	109	70	130
2-Butanone	1	15.1486	0	20	76	50	150
1,1,1-Trichloroethane	1	22.048	0	20	110	70	130
Carbon Tetrachloride	1	22.9438	0	20	115	50	150
Vinyl Acetate	1	19.6513	0	20	98	50	150
Bromodichloromethane	1	22.298	0	20	111	70	130
Methylcyclohexane	1	22.5569	0	20	113	70	130
Dibromomethane	1	22.4361	0	20	112	70	130
1,2-Dichloropropane	1	22.1276	0	20	111	70	130
Trichloroethene	1	22.7723	0	20	114	70	130
Benzene	1	22.4812	0	20	112	70	130
tert-Amyl methyl ether	1	19.8374	0	20	99	70	130
Iso-propylacetate	1	16.4365	0	20	82	70	130
Methyl methacrylate	1	17.6134	0	20	88	70	130
Dibromochloromethane	1	20.9937	0	20	105	70	130
2-Chloroethylvinylether	1	21.834	0	20	109	70	130
cis-1,3-Dichloropropene	1	20.7562	0	20	104	70	130
trans-1,3-Dichloropropene	1	19.9942	0	20	100	70	130
Ethyl methacrylate	1	17.6439	0	20	88	70	130
1,1,2-Trichloroethane	1	21.0668	0	20	105	70	130
1,2-Dibromoethane	1	20.5773	0	20	103	70	130
1,3-Dichloropropane	1	21.4459	0	20	107	70	130
4-Methyl-2-Pentanone	1	15.5933	0	20	78	50	150
2-Hexanone	1	15.0008	0	20	75	50	150
Tetrachloroethene	1	22.033	0	20	110	50	150
Toluene	1	21.5878	0	20	108	70	130
1,1,1,2-Tetrachloroethane	1	21.0231	0	20	105	70	130
Chlorobenzene	1	21.9248	0	20	110	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99290

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	17.2022	0	20	86	70	130
n-Amyl acetate	1	17.0125	0	20	85	70	130
Bromoform	**1**	**19.0964**	**0**	**20**	**95**	**70**	**130**
Ethylbenzene	**1**	**20.6676**	**0**	**20**	**103**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**19.2355**	**0**	**20**	**96**	**70**	**130**
Styrene	**1**	**21.5837**	**0**	**20**	**108**	**70**	**130**
m&p-Xylenes	**1**	**42.9367**	**0**	**40**	**107**	**70**	**130**
o-Xylene	**1**	**21.3282**	**0**	**20**	**107**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	15.5933	0	20	78	50	150
1,3-Dichlorobenzene	**1**	**21.4981**	**0**	**20**	**107**	**70**	**130**
1,4-Dichlorobenzene	**1**	**21.4676**	**0**	**20**	**107**	**70**	**130**
1,2-Dichlorobenzene	**1**	**21.0718**	**0**	**20**	**105**	**70**	**130**
Isopropylbenzene	**1**	**21.6826**	**0**	**20**	**108**	**70**	**130**
Cyclohexanone	1	50.6354	0	100	51	50	150
Camphene	1	20.3068	0	20	102	70	130
1,2,3-Trichloropropane	1	17.1328	0	20	86	70	130
2-Chlorotoluene	1	20.8871	0	20	104	70	130
p-Ethyltoluene	1	20.2326	0	20	101	70	130
4-Chlorotoluene	1	21.1834	0	20	106	70	130
n-Propylbenzene	1	21.8235	0	20	109	70	130
Bromobenzene	1	20.7233	0	20	104	70	130
1,3,5-Trimethylbenzene	1	20.7839	0	20	104	70	130
Butyl methacrylate	1	18.5813	0	20	93	70	130
t-Butylbenzene	1	21.5304	0	20	108	70	130
1,2,4-Trimethylbenzene	1	21.0004	0	20	105	70	130
sec-Butylbenzene	1	21.4384	0	20	107	70	130
4-Isopropyltoluene	1	20.5249	0	20	103	70	130
n-Butylbenzene	1	20.5602	0	20	103	70	130
p-Diethylbenzene	1	19.0086	0	20	95	70	130
1,2,4,5-Tetramethylbenzene	1	16.8966	0	20	84	70	130
1,2-Dibromo-3-Chloropropane	**1**	**14.5206**	**0**	**20**	**73**	**50**	**150**
Camphor	1	118.1167	0	200	59	20	150
Hexachlorobutadiene	1	18.8472	0	20	94	50	150
1,2,4-Trichlorobenzene	**1**	**19.1499**	**0**	**20**	**96**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**16.2906**	**0**	**20**	**81**	**70**	**130**
Naphthalene	1	14.8547	0	20	74	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99290

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162416.D	AD28256-008(MS:AD28256-003	1/13/2022 3:11:00 AM
Non Spike(If applicable):	2M162412.D	AD28256-003	1/13/2022 1:52:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	21.8545	0	20	109	50	150
Dichlorodifluoromethane	1	18.9243	0	20	95	50	150
Chloromethane	1	19.1378	0	20	96	50	150
Bromomethane	1	20.5775	0	20	103	50	150
Vinyl Chloride	1	21.2583	0	20	106	50	150
Chloroethane	1	21.7186	0	20	109	50	150
Trichlorofluoromethane	1	24.7877	0	20	124	50	150
Ethyl ether	1	18.1718	0	20	91	50	150
Furan	1	17.5595	0	20	88	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.2445	0	20	121	50	150
Methylene Chloride	1	23.4075	0	20	117	70	130
Acrolein	1	79.6124	0	100	80	50	150
Acrylonitrile	1	17.3239	0	20	87	50	150
Iodomethane	1	25.4324	0	20	127	50	150
Acetone	1	85.159	0	100	85	50	150
Carbon Disulfide	1	22.7179	0	20	114	50	150
t-Butyl Alcohol	1	76.5665	0	100	77	50	150
n-Hexane	1	20.9846	0	20	105	70	130
Di-isopropyl-ether	1	20.9518	0	20	105	70	130
1,1-Dichloroethene	1	22.9615	0	20	115	70	130
Methyl Acetate	1	16.8116	0	20	84	50	150
Methyl-t-butyl ether	1	21.3439	0	20	107	70	130
1,1-Dichloroethane	1	23.0495	0	20	115	70	130
trans-1,2-Dichloroethene	1	23.326	0	20	117	70	130
Ethyl-t-butyl ether	1	20.2913	0	20	101	70	130
cis-1,2-Dichloroethene	1	22.1127	0	20	111	70	130
Bromochloromethane	1	23.2821	0	20	116	70	130
2,2-Dichloropropane	1	19.6144	0	20	98	70	130
Ethyl acetate	1	18.5382	0	20	93	50	150
1,4-Dioxane	1	863.522	0	1000	86	50	150
1,1-Dichloropropene	1	23.9575	0	20	120	70	130
Chloroform	1	23.8349	0	20	119	70	130
Cyclohexane	1	23.3303	0	20	117	70	130
1,2-Dichloroethane	1	21.9719	0	20	110	70	130
2-Butanone	1	16.5315	0	20	83	50	150
1,1,1-Trichloroethane	1	23.8977	0	20	119	70	130
Carbon Tetrachloride	1	25.5199	0	20	128	50	150
Vinyl Acetate	1	19.952	0	20	100	50	150
Bromodichloromethane	1	22.9315	0	20	115	70	130
Methylcyclohexane	1	24.2281	0	20	121	70	130
Dibromomethane	1	23.6379	0	20	118	70	130
1,2-Dichloropropane	1	22.7149	0	20	114	70	130
Trichloroethene	1	24.0537	0	20	120	70	130
Benzene	1	23.2103	0	20	116	70	130
tert-Amyl methyl ether	1	20.4318	0	20	102	70	130
Iso-propylacetate	1	17.7982	0	20	89	70	130
Methyl methacrylate	1	16.7382	0	20	84	70	130
Dibromochloromethane	1	22.1851	0	20	111	70	130
2-Chloroethylvinylether	1	1.6158	0	20	8.1 *	70	130
cis-1,3-Dichloropropene	1	20.9879	0	20	105	70	130
trans-1,3-Dichloropropene	1	20.5827	0	20	103	70	130
Ethyl methacrylate	1	18.8393	0	20	94	70	130
1,1,2-Trichloroethane	1	22.3133	0	20	112	70	130
1,2-Dibromoethane	1	21.9469	0	20	110	70	130
1,3-Dichloropropane	1	22.1266	0	20	111	70	130
4-Methyl-2-Pentanone	1	17.4097	0	20	87	50	150
2-Hexanone	1	17.1642	0	20	86	50	150
Tetrachloroethene	1	23.4196	0	20	117	50	150
Toluene	1	22.5343	0	20	113	70	130
1,1,1,2-Tetrachloroethane	1	22.0897	0	20	110	70	130
Chlorobenzene	1	22.9756	0	20	115	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99290

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	18.0259	0	20	90	70	130
n-Amyl acetate	1	17.3642	0	20	87	70	130
Bromoform	**1**	**19.7676**	**0**	**20**	**99**	**70**	**130**
Ethylbenzene	**1**	**20.456**	**0**	**20**	**102**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**18.9983**	**0**	**20**	**95**	**70**	**130**
Styrene	**1**	**20.9595**	**0**	**20**	**105**	**70**	**130**
m&p-Xylenes	**1**	**43.3623**	**0**	**40**	**108**	**70**	**130**
o-Xylene	**1**	**21.1291**	**0**	**20**	**106**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	12.3798	0	20	62	50	150
1,3-Dichlorobenzene	**1**	**21.765**	**0**	**20**	**109**	**70**	**130**
1,4-Dichlorobenzene	**1**	**21.7884**	**0**	**20**	**109**	**70**	**130**
1,2-Dichlorobenzene	**1**	**21.5473**	**0**	**20**	**108**	**70**	**130**
Isopropylbenzene	**1**	**22.5568**	**0**	**20**	**113**	**70**	**130**
Cyclohexanone	1	52.2656	0	100	52	50	150
Camphene	1	7.5268	0	20	38 *	70	130
1,2,3-Trichloropropane	1	17.274	0	20	86	70	130
2-Chlorotoluene	1	22.0092	0	20	110	70	130
p-Ethyltoluene	1	20.4453	0	20	102	70	130
4-Chlorotoluene	1	21.5257	0	20	108	70	130
n-Propylbenzene	1	22.4489	0	20	112	70	130
Bromobenzene	1	19.1776	0	20	96	70	130
1,3,5-Trimethylbenzene	1	21.1536	0	20	106	70	130
Butyl methacrylate	1	19.2271	0	20	96	70	130
t-Butylbenzene	1	22.6799	0	20	113	70	130
1,2,4-Trimethylbenzene	1	21.4738	0	20	107	70	130
sec-Butylbenzene	1	23.7874	0	20	119	70	130
4-Isopropyltoluene	1	22.9261	0	20	115	70	130
n-Butylbenzene	1	21.9864	0	20	110	70	130
p-Diethylbenzene	1	20.5861	0	20	103	70	130
1,2,4,5-Tetramethylbenzene	1	23.7215	0	20	119	70	130
1,2-Dibromo-3-Chloropropane	**1**	**16.0591**	**0**	**20**	**80**	**50**	**150**
Camphor	1	156.2759	0	200	78	20	150
Hexachlorobutadiene	1	22.6256	0	20	113	50	150
1,2,4-Trichlorobenzene	**1**	**22.0286**	**0**	**20**	**110**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**21.2234**	**0**	**20**	**106**	**70**	**130**
Naphthalene	1	19.1341	0	20	96	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99290

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162417.D	AD28256-009(MSD:AD28256-0	1/13/2022 3:31:00 AM
Non Spike(If applicable):	2M162412.D	AD28256-003	1/13/2022 1:52:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.8034	0	20	104	50	150
Dichlorodifluoromethane	1	17.7354	0	20	89	50	150
Chloromethane	1	18.503	0	20	93	50	150
Bromomethane	1	20.3505	0	20	102	50	150
Vinyl Chloride	1	20.5418	0	20	103	50	150
Chloroethane	1	20.8032	0	20	104	50	150
Trichlorofluoromethane	1	23.6868	0	20	118	50	150
Ethyl ether	1	17.7108	0	20	89	50	150
Furan	1	16.9525	0	20	85	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.34	0	20	117	50	150
Methylene Chloride	1	22.4737	0	20	112	70	130
Acrolein	1	73.8898	0	100	74	50	150
Acrylonitrile	1	16.6498	0	20	83	50	150
Iodomethane	1	24.1536	0	20	121	50	150
Acetone	1	80.1436	0	100	80	50	150
Carbon Disulfide	1	19.9778	0	20	100	50	150
t-Butyl Alcohol	1	71.3938	0	100	71	50	150
n-Hexane	1	21.9219	0	20	110	70	130
Di-isopropyl-ether	1	20.221	0	20	101	70	130
1,1-Dichloroethene	1	21.9859	0	20	110	70	130
Methyl Acetate	1	16.8645	0	20	84	50	150
Methyl-t-butyl ether	1	20.6352	0	20	103	70	130
1,1-Dichloroethane	1	21.8532	0	20	109	70	130
trans-1,2-Dichloroethene	1	22.1999	0	20	111	70	130
Ethyl-t-butyl ether	1	19.4613	0	20	97	70	130
cis-1,2-Dichloroethene	1	21.1366	0	20	106	70	130
Bromochloromethane	1	22.559	0	20	113	70	130
2,2-Dichloropropane	1	18.7161	0	20	94	70	130
Ethyl acetate	1	17.1204	0	20	86	50	150
1,4-Dioxane	1	822.4257	0	1000	82	50	150
1,1-Dichloropropene	1	22.9818	0	20	115	70	130
Chloroform	1	22.5433	0	20	113	70	130
Cyclohexane	1	23.0041	0	20	115	70	130
1,2-Dichloroethane	1	20.9862	0	20	105	70	130
2-Butanone	1	15.3175	0	20	77	50	150
1,1,1-Trichloroethane	1	23.3448	0	20	117	70	130
Carbon Tetrachloride	1	24.3142	0	20	122	50	150
Vinyl Acetate	1	19.4069	0	20	97	50	150
Bromodichloromethane	1	22.334	0	20	112	70	130
Methylcyclohexane	1	25.4206	0	20	127	70	130
Dibromomethane	1	22.6538	0	20	113	70	130
1,2-Dichloropropane	1	22.3985	0	20	112	70	130
Trichloroethene	1	23.1066	0	20	116	70	130
Benzene	1	22.5454	0	20	113	70	130
tert-Amyl methyl ether	1	19.7128	0	20	99	70	130
Iso-propylacetate	1	16.5396	0	20	83	70	130
Methyl methacrylate	1	15.9863	0	20	80	70	130
Dibromochloromethane	1	21.5963	0	20	108	70	130
2-Chloroethylvinylether	1	1.6224	0	20	8.1*	70	130
cis-1,3-Dichloropropene	1	19.9794	0	20	100	70	130
trans-1,3-Dichloropropene	1	19.4518	0	20	97	70	130
Ethyl methacrylate	1	18.1165	0	20	91	70	130
1,1,2-Trichloroethane	1	21.8855	0	20	109	70	130
1,2-Dibromoethane	1	20.9343	0	20	105	70	130
1,3-Dichloropropane	1	20.7172	0	20	104	70	130
4-Methyl-2-Pentanone	1	16.1158	0	20	81	50	150
2-Hexanone	1	16.1194	0	20	81	50	150
Tetrachloroethene	1	22.5959	0	20	113	50	150
Toluene	1	21.4219	0	20	107	70	130
1,1,1,2-Tetrachloroethane	1	20.9685	0	20	105	70	130
Chlorobenzene	1	21.9625	0	20	110	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99290

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	17.3173	0	20	87	70	130
n-Amyl acetate	1	16.811	0	20	84	70	130
Bromoform	1	18.8336	0	20	94	70	130
Ethylbenzene	1	19.8113	0	20	99	70	130
1,1,2,2-Tetrachloroethane	1	18.2813	0	20	91	70	130
Styrene	1	20.5849	0	20	103	70	130
m&p-Xylenes	1	41.9366	0	40	105	70	130
o-Xylene	1	20.6834	0	20	103	70	130
trans-1,4-Dichloro-2-butene	1	12.2646	0	20	61	50	150
1,3-Dichlorobenzene	1	21.7102	0	20	109	70	130
1,4-Dichlorobenzene	1	21.5292	0	20	108	70	130
1,2-Dichlorobenzene	1	21.4297	0	20	107	70	130
Isopropylbenzene	1	22.6623	0	20	113	70	130
Cyclohexanone	1	49.7408	0	100	50	50	150
Camphene	1	7.1291	0	20	36 *	70	130
1,2,3-Trichloropropane	1	16.683	0	20	83	70	130
2-Chlorotoluene	1	21.5248	0	20	108	70	130
p-Ethyltoluene	1	20.8077	0	20	104	70	130
4-Chlorotoluene	1	20.355	0	20	102	70	130
n-Propylbenzene	1	22.4801	0	20	112	70	130
Bromobenzene	1	18.4041	0	20	92	70	130
1,3,5-Trimethylbenzene	1	20.7349	0	20	104	70	130
Butyl methacrylate	1	18.1092	0	20	91	70	130
t-Butylbenzene	1	22.5244	0	20	113	70	130
1,2,4-Trimethylbenzene	1	21.534	0	20	108	70	130
sec-Butylbenzene	1	24.3846	0	20	122	70	130
4-Isopropyltoluene	1	22.4904	0	20	112	70	130
n-Butylbenzene	1	22.112	0	20	111	70	130
p-Diethylbenzene	1	20.5661	0	20	103	70	130
1,2,4,5-Tetramethylbenzene	1	24.0188	0	20	120	70	130
1,2-Dibromo-3-Chloropropane	1	15.8422	0	20	79	50	150
Camphor	1	145.526	0	200	73	20	150
Hexachlorobutadiene	1	20.4688	0	20	102	50	150
1,2,4-Trichlorobenzene	1	21.8007	0	20	109	70	130
1,2,3-Trichlorobenzene	1	20.9417	0	20	105	70	130
Naphthalene	1	18.815	0	20	94	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS99290

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162417.D	AD28256-009(MSD:AD28256-0	1/13/2022 3:31:00 AM
Duplicate(If applicable):	2M162416.D	AD28256-008(MS:AD28256-003	1/13/2022 3:11:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	20.8034	21.8545	4.9	30
Dichlorodifluoromethane	1	17.7354	18.9243	6.5	30
Chloromethane	1	18.503	19.1378	3.4	30
Bromomethane	1	20.3505	20.5775	1.1	30
Vinyl Chloride	1	20.5418	21.2583	3.4	40
Chloroethane	1	20.8032	21.7186	4.3	30
Trichlorofluoromethane	1	23.6868	24.7877	4.5	30
Ethyl ether	1	17.7108	18.1718	2.6	30
Furan	1	16.9525	17.5595	3.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.34	24.2445	3.8	30
Methylene Chloride	1	22.4737	23.4075	4.1	30
Acrolein	1	73.8898	79.6124	7.5	30
Acrylonitrile	1	16.6498	17.3239	4	30
Iodomethane	1	24.1536	25.4324	5.2	30
Acetone	1	80.1436	85.159	6.1	30
Carbon Disulfide	1	19.9778	22.7179	13	30
t-Butyl Alcohol	1	71.3938	76.5665	7	30
n-Hexane	1	21.9219	20.9846	4.4	30
Di-isopropyl-ether	1	20.221	20.9518	3.5	30
1,1-Dichloroethene	1	21.9859	22.9615	4.3	40
Methyl Acetate	1	16.8645	16.8116	0.31	30
Methyl-t-butyl ether	1	20.6352	21.3439	3.4	30
1,1-Dichloroethane	1	21.8532	23.0495	5.3	40
trans-1,2-Dichloroethene	1	22.1999	23.326	4.9	30
Ethyl-t-butyl ether	1	19.4613	20.2913	4.2	30
cis-1,2-Dichloroethene	1	21.1366	22.1127	4.5	30
Bromochloromethane	1	22.559	23.2821	3.2	30
2,2-Dichloropropane	1	18.7161	19.6144	4.7	30
Ethyl acetate	1	17.1204	18.5382	8	30
1,4-Dioxane	1	822.4257	863.522	4.9	30
1,1-Dichloropropene	1	22.9818	23.9575	4.2	30
Chloroform	1	22.5433	23.8349	5.6	40
Cyclohexane	1	23.0041	23.3303	1.4	30
1,2-Dichloroethane	1	20.9862	21.9719	4.6	40
2-Butanone	1	15.3175	16.5315	7.6	40
1,1,1-Trichloroethane	1	23.3448	23.8977	2.3	30
Carbon Tetrachloride	1	24.3142	25.5199	4.8	40
Vinyl Acetate	1	19.4069	19.952	2.8	30
Bromodichloromethane	1	22.334	22.9315	2.6	30
Methylcyclohexane	1	25.4206	24.2281	4.8	30
Dibromomethane	1	22.6538	23.6379	4.3	30
1,2-Dichloropropane	1	22.3985	22.7149	1.4	30
Trichloroethene	1	23.1066	24.0537	4	40
Benzene	1	22.5454	23.2103	2.9	40
tert-Amyl methyl ether	1	19.7128	20.4318	3.6	30
Iso-propylacetate	1	16.5396	17.7982	7.3	30
Methyl methacrylate	1	15.9863	16.7382	4.6	30
Dibromochloromethane	1	21.5963	22.1851	2.7	30
2-Chloroethylvinylether	1	1.6224	1.6158	0.41	30
cis-1,3-Dichloropropene	1	19.9794	20.9879	4.9	30
trans-1,3-Dichloropropene	1	19.4518	20.5827	5.6	30
Ethyl methacrylate	1	18.1165	18.8393	3.9	30
1,1,2-Trichloroethane	1	21.8855	22.3133	1.9	30
1,2-Dibromoethane	1	20.9343	21.9469	4.7	30
1,3-Dichloropropane	1	20.7172	22.1266	6.6	30
4-Methyl-2-Pentanone	1	16.1158	17.4097	7.7	30
2-Hexanone	1	16.1194	17.1642	6.3	30
Tetrachloroethene	1	22.5959	23.4196	3.6	40
Toluene	1	21.4219	22.5343	5.1	40
1,1,1,2-Tetrachloroethane	1	20.9685	22.0897	5.2	30
Chlorobenzene	1	21.9625	22.9756	4.5	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS99290

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	17.3173	18.0259	4	30
n-Amyl acetate	1	16.811	17.3642	3.2	30
Bromoform	**1**	**18.8336**	**19.7676**	**4.8**	**30**
Ethylbenzene	**1**	**19.8113**	**20.456**	**3.2**	**30**
1,1,2,2-Tetrachloroethane	**1**	**18.2813**	**18.9983**	**3.8**	**30**
Styrene	**1**	**20.5849**	**20.9595**	**1.8**	**30**
m&p-Xylenes	**1**	**41.9366**	**43.3623**	**3.3**	**30**
o-Xylene	**1**	**20.6834**	**21.1291**	**2.1**	**30**
trans-1,4-Dichloro-2-butene	1	12.2646	12.3798	0.93	30
1,3-Dichlorobenzene	**1**	**21.7102**	**21.765**	**0.25**	**30**
1,4-Dichlorobenzene	**1**	**21.5292**	**21.7884**	**1.2**	**40**
1,2-Dichlorobenzene	**1**	**21.4297**	**21.5473**	**0.55**	**40**
Isopropylbenzene	**1**	**22.6623**	**22.5568**	**0.47**	**30**
Cyclohexanone	1	49.7408	52.2656	5	30
Camphene	1	7.1291	7.5268	5.4	30
1,2,3-Trichloropropane	1	16.683	17.274	3.5	30
2-Chlorotoluene	1	21.5248	22.0092	2.2	30
p-Ethyltoluene	1	20.8077	20.4453	1.8	30
4-Chlorotoluene	1	20.355	21.5257	5.6	30
n-Propylbenzene	1	22.4801	22.4489	0.14	40
Bromobenzene	1	18.4041	19.1776	4.1	30
1,3,5-Trimethylbenzene	1	20.7349	21.1536	2	30
Butyl methacrylate	1	18.1092	19.2271	6	30
t-Butylbenzene	1	22.5244	22.6799	0.69	30
1,2,4-Trimethylbenzene	1	21.534	21.4738	0.28	30
sec-Butylbenzene	1	24.3846	23.7874	2.5	40
4-Isopropyltoluene	1	22.4904	22.9261	1.9	30
n-Butylbenzene	1	22.112	21.9864	0.57	30
p-Diethylbenzene	1	20.5661	20.5861	0.1	30
1,2,4,5-Tetramethylbenzene	1	24.0188	23.7215	1.2	30
1,2-Dibromo-3-Chloropropane	**1**	**15.8422**	**16.0591**	**1.4**	**30**
Camphor	1	145.526	156.2759	7.1	30
Hexachlorobutadiene	1	20.4688	22.6256	10	30
1,2,4-Trichlorobenzene	**1**	**21.8007**	**22.0286**	**1**	**30**
1,2,3-Trichlorobenzene	**1**	**20.9417**	**21.2234**	**1.3**	**30**
Naphthalene	1	18.815	19.1341	1.7	30

* - Indicates outside of limits | NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99292

Data File: Spike or Dup: 2M162449.D
Sample ID: MBS99292
Analysis Date: 1/13/2022 2:14:00 PM
Non Spike(If applicable):
Inst Blank(If applicable):

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	22.7857	0	20	114	50	150
Dichlorodifluoromethane	1	16.6223	0	20	83	50	150
Chloromethane	1	18.9429	0	20	95	50	150
Bromomethane	1	24.3656	0	20	122	50	150
Vinyl Chloride	1	20.3429	0	20	102	50	150
Chloroethane	1	21.2726	0	20	106	50	150
Trichlorofluoromethane	1	22.7851	0	20	114	50	150
Ethyl ether	1	18.0663	0	20	90	50	150
Furan	1	16.9477	0	20	85	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.399	0	20	112	50	150
Methylene Chloride	1	22.3082	0	20	112	70	130
Acrolein	1	72.1363	0	100	72	50	150
Acrylonitrile	1	16.5096	0	20	83	50	150
Iodomethane	1	26.1899	0	20	131	50	150
Acetone	1	77.3637	0	100	77	50	150
Carbon Disulfide	1	19.7765	0	20	99	50	150
t-Butyl Alcohol	1	66.6855	0	100	67	50	150
n-Hexane	1	20.1459	0	20	101	70	130
Di-isopropyl-ether	1	20.3193	0	20	102	70	130
1,1-Dichloroethene	1	21.1941	0	20	106	70	130
Methyl Acetate	1	16.2572	0	20	81	50	150
Methyl-t-butyl ether	1	20.3683	0	20	102	70	130
1,1-Dichloroethane	1	21.8744	0	20	109	70	130
trans-1,2-Dichloroethene	1	22.5816	0	20	113	70	130
Ethyl-t-butyl ether	1	19.8289	0	20	99	70	130
cis-1,2-Dichloroethene	1	20.854	0	20	104	70	130
Bromochloromethane	1	22.6813	0	20	113	70	130
2,2-Dichloropropane	1	21.1727	0	20	106	70	130
Ethyl acetate	1	16.6316	0	20	83	50	150
1,4-Dioxane	1	830.0622	0	1000	83	50	150
1,1-Dichloropropene	1	21.9208	0	20	110	70	130
Chloroform	1	22.499	0	20	112	70	130
Cyclohexane	1	20.7472	0	20	104	70	130
1,2-Dichloroethane	1	20.6544	0	20	103	70	130
2-Butanone	1	15.1423	0	20	76	50	150
1,1,1-Trichloroethane	1	21.9732	0	20	110	70	130
Carbon Tetrachloride	1	22.9225	0	20	115	50	150
Vinyl Acetate	1	19.1364	0	20	96	50	150
Bromodichloromethane	1	21.9923	0	20	110	70	130
Methylcyclohexane	1	21.8677	0	20	109	70	130
Dibromomethane	1	22.9804	0	20	115	70	130
1,2-Dichloropropane	1	22.2066	0	20	111	70	130
Trichloroethene	1	23.0432	0	20	115	70	130
Benzene	1	22.3491	0	20	112	70	130
tert-Amyl methyl ether	1	19.2556	0	20	96	70	130
Iso-propylacetate	1	16.27	0	20	81	70	130
Methyl methacrylate	1	15.8971	0	20	79	70	130
Dibromochloromethane	1	21.8446	0	20	109	70	130
2-Chloroethylvinylether	1	21.5061	0	20	108	70	130
cis-1,3-Dichloropropene	1	20.844	0	20	104	70	130
trans-1,3-Dichloropropene	1	19.7441	0	20	99	70	130
Ethyl methacrylate	1	17.2707	0	20	86	70	130
1,1,2-Trichloroethane	1	21.2532	0	20	106	70	130
1,2-Dibromoethane	1	20.9306	0	20	105	70	130
1,3-Dichloropropane	1	21.4988	0	20	107	70	130
4-Methyl-2-Pentanone	1	16.1886	0	20	81	50	150
2-Hexanone	1	14.6004	0	20	73	50	150
Tetrachloroethene	1	22.2291	0	20	111	50	150
Toluene	1	21.5227	0	20	108	70	130
1,1,1,2-Tetrachloroethane	1	21.3965	0	20	107	70	130
Chlorobenzene	1	22.0399	0	20	110	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3

Recovery Data Laboratory Limits

QC Batch: MBS99292

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	17.4681	0	20	87	70	130
n-Amyl acetate	1	16.755	0	20	84	70	130
Bromoform	**1**	**18.7698**	**0**	**20**	**94**	**70**	**130**
Ethylbenzene	**1**	**19.601**	**0**	**20**	**98**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**18.0404**	**0**	**20**	**90**	**70**	**130**
Styrene	**1**	**20.8884**	**0**	**20**	**104**	**70**	**130**
m&p-Xylenes	**1**	**42.1426**	**0**	**40**	**105**	**70**	**130**
o-Xylene	**1**	**20.9065**	**0**	**20**	**105**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	16.4317	0	20	82	50	150
1,3-Dichlorobenzene	**1**	**20.7501**	**0**	**20**	**104**	**70**	**130**
1,4-Dichlorobenzene	**1**	**20.9501**	**0**	**20**	**105**	**70**	**130**
1,2-Dichlorobenzene	**1**	**21.0868**	**0**	**20**	**105**	**70**	**130**
Isopropylbenzene	**1**	**21.1641**	**0**	**20**	**106**	**70**	**130**
Cyclohexanone	1	69.6017	0	100	70	50	150
Camphene	1	19.6532	0	20	98	70	130
1,2,3-Trichloropropane	1	16.5248	0	20	83	70	130
2-Chlorotoluene	1	21.0716	0	20	105	70	130
p-Ethyltoluene	1	19.6918	0	20	98	70	130
4-Chlorotoluene	1	20.3502	0	20	102	70	130
n-Propylbenzene	1	20.7262	0	20	104	70	130
Bromobenzene	1	19.678	0	20	98	70	130
1,3,5-Trimethylbenzene	1	19.8564	0	20	99	70	130
Butyl methacrylate	1	17.9579	0	20	90	70	130
t-Butylbenzene	1	20.7491	0	20	104	70	130
1,2,4-Trimethylbenzene	1	20.8122	0	20	104	70	130
sec-Butylbenzene	1	20.9963	0	20	105	70	130
4-Isopropyltoluene	1	20.1361	0	20	101	70	130
n-Butylbenzene	1	20.0919	0	20	100	70	130
p-Diethylbenzene	1	19.5782	0	20	98	70	130
1,2,4,5-Tetramethylbenzene	1	19.3068	0	20	97	70	130
1,2-Dibromo-3-Chloropropane	**1**	**14.0933**	**0**	**20**	**70**	**50**	**150**
Camphor	1	127.7662	0	200	64	20	150
Hexachlorobutadiene	1	19.8448	0	20	99	50	150
1,2,4-Trichlorobenzene	**1**	**19.7157**	**0**	**20**	**99**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**19.1276**	**0**	**20**	**96**	**70**	**130**
Naphthalene	1	20.3903	0	20	102	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99292

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162459.D	AD28247-010(MS)	1/13/2022 5:32:00 PM
Non Spike(If applicable):	2M162446.D	AD28247-010	1/13/2022 1:14:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	24.8226	0	20	124	50	150
Dichlorodifluoromethane	1	35.9711	0	20	180*	50	150
Chloromethane	1	27.287	0	20	136	50	150
Bromomethane	1	33.4331	0	20	167*	50	150
Vinyl Chloride	1	27.8705	0	20	139	50	150
Chloroethane	1	26.4019	0	20	132	50	150
Trichlorofluoromethane	1	28.2246	0	20	141	50	150
Ethyl ether	1	20.0961	0	20	100	50	150
Furan	1	19.7002	0	20	99	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	28.5366	0	20	143	50	150
Methylene Chloride	1	27.4982	0	20	137*	70	130
Acrolein	1	75.5455	0	100	76	50	150
Acrylonitrile	1	16.5436	0	20	83	50	150
Iodomethane	1	31.7502	0	20	159*	50	150
Acetone	1	69.6444	0	100	70	50	150
Carbon Disulfide	1	26.0996	0	20	130	50	150
t-Butyl Alcohol	1	66.9496	0	100	67	50	150
n-Hexane	1	27.4528	0	20	137*	70	130
Di-isopropyl-ether	1	23.2894	0	20	116	70	130
1,1-Dichloroethene	1	27.3832	0	20	137*	70	130
Methyl Acetate	1	15.521	0	20	78	50	150
Methyl-t-butyl ether	1	23.1172	0	20	116	70	130
1,1-Dichloroethane	1	26.3148	0	20	132*	70	130
trans-1,2-Dichloroethene	1	27.5808	0	20	138*	70	130
Ethyl-t-butyl ether	1	22.2795	0	20	111	70	130
cis-1,2-Dichloroethene	1	25.6594	0	20	128	70	130
Bromochloromethane	1	26.865	0	20	134*	70	130
2,2-Dichloropropane	1	25.6725	0	20	128	70	130
Ethyl acetate	1	16.0312	0	20	80	50	150
1,4-Dioxane	1	752.6669	0	1000	75	50	150
1,1-Dichloropropene	1	27.0418	0	20	135*	70	130
Chloroform	1	26.7025	0	20	134*	70	130
Cyclohexane	1	25.2807	0	20	126	70	130
1,2-Dichloroethane	1	24.087	0	20	120	70	130
2-Butanone	1	14.7015	0	20	74	50	150
1,1,1-Trichloroethane	1	26.6784	0	20	133*	70	130
Carbon Tetrachloride	1	27.4383	0	20	137	50	150
Vinyl Acetate	1	22.2159	0	20	111	50	150
Bromodichloromethane	1	26.3651	0	20	132*	70	130
Methylcyclohexane	1	26.8605	0	20	134*	70	130
Dibromomethane	1	26.1319	0	20	131*	70	130
1,2-Dichloropropane	1	26.7509	0	20	134*	70	130
Trichloroethene	1	27.7464	0	20	139*	70	130
Benzene	1	26.3125	0	20	132*	70	130
tert-Amyl methyl ether	1	21.5387	0	20	108	70	130
Iso-propylacetate	1	16.8159	0	20	84	70	130
Methyl methacrylate	1	15.2317	0	20	76	70	130
Dibromochloromethane	1	25.563	0	20	128	70	130
2-Chloroethylvinylether	1	1.6129	0	20	8.1*	70	130
cis-1,3-Dichloropropene	1	23.5775	0	20	118	70	130
trans-1,3-Dichloropropene	1	22.5607	0	20	113	70	130
Ethyl methacrylate	1	18.2798	0	20	91	70	130
1,1,2-Trichloroethane	1	24.552	0	20	123	70	130
1,2-Dibromoethane	1	23.5797	0	20	118	70	130
1,3-Dichloropropane	1	23.9605	0	20	120	70	130
4-Methyl-2-Pentanone	1	15.4407	0	20	77	50	150
2-Hexanone	1	16.0647	0	20	80	50	150
Tetrachloroethene	1	26.8566	0	20	134	50	150
Toluene	1	27.7028	0	20	139*	70	130
1,1,1,2-Tetrachloroethane	1	24.9133	0	20	125	70	130
Chlorobenzene	1	25.562	0	20	128	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99292

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	19.7937	0	20	99	70	130
n-Amyl acetate	1	19.2414	0	20	96	70	130
Bromoform	1	20.6613	0	20	103	70	130
Ethylbenzene	1	25.9206	0	20	130	70	130
1,1,2,2-Tetrachloroethane	1	19.3228	0	20	97	70	130
Styrene	1	24.3101	0	20	122	70	130
m&p-Xylenes	1	56.6896	0	40	142*	70	130
o-Xylene	1	26.6942	0	20	133*	70	130
trans-1,4-Dichloro-2-butene	1	15.4736	0	20	77	50	150
1,3-Dichlorobenzene	1	24.1697	0	20	121	70	130
1,4-Dichlorobenzene	1	24.1555	0	20	121	70	130
1,2-Dichlorobenzene	1	24.041	0	20	120	70	130
Isopropylbenzene	1	25.2067	0	20	126	70	130
Cyclohexanone	1	59.446	0	100	59	50	150
Camphene	1	13.9071	0	20	70	70	130
1,2,3-Trichloropropane	1	17.4204	0	20	87	70	130
2-Chlorotoluene	1	23.6838	0	20	118	70	130
p-Ethyltoluene	1	28.3819	0	20	142*	70	130
4-Chlorotoluene	1	23.1112	0	20	116	70	130
n-Propylbenzene	1	26.2259	0	20	131*	70	130
Bromobenzene	1	21.7232	0	20	109	70	130
1,3,5-Trimethylbenzene	1	26.8261	0	20	134*	70	130
Butyl methacrylate	1	20.1472	0	20	101	70	130
t-Butylbenzene	1	25.9593	0	20	130	70	130
1,2,4-Trimethylbenzene	1	34.7958	0	20	174*	70	130
sec-Butylbenzene	1	24.9786	0	20	125	70	130
4-Isopropyltoluene	1	23.8325	0	20	119	70	130
n-Butylbenzene	1	26.2506	0	20	131*	70	130
p-Diethylbenzene	1	30.6932	0	20	153*	70	130
1,2,4,5-Tetramethylbenzene	1	23.6223	0	20	118	70	130
1,2-Dibromo-3-Chloropropane	1	14.3911	0	20	72	50	150
Camphor	1	107.1272	0	200	54	20	150
Hexachlorobutadiene	1	24.1776	0	20	121	50	150
1,2,4-Trichlorobenzene	1	20.9781	0	20	105	70	130
1,2,3-Trichlorobenzene	1	16.6122	0	20	83	70	130
Naphthalene	1	31.6694	0	20	158*	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99292

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162460.D	AD28247-010(MSD)	1/13/2022 5:51:00 PM
Non Spike(If applicable):	2M162446.D	AD28247-010	1/13/2022 1:14:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	23.005	0	20	115	50	150
Dichlorodifluoromethane	1	33.5605	0	20	168*	50	150
Chloromethane	1	24.0821	0	20	120	50	150
Bromomethane	1	34.4584	0	20	172*	50	150
Vinyl Chloride	1	25.5844	0	20	128	50	150
Chloroethane	1	24.5295	0	20	123	50	150
Trichlorofluoromethane	1	26.2039	0	20	131	50	150
Ethyl ether	1	17.8162	0	20	89	50	150
Furan	1	18.5988	0	20	93	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	26.9866	0	20	135	50	150
Methylene Chloride	1	25.7943	0	20	129	70	130
Acrolein	1	55.8854	0	100	56	50	150
Acrylonitrile	1	12.0182	0	20	60	50	150
Iodomethane	1	34.4177	0	20	172*	50	150
Acetone	1	49.6203	0	100	50	50	150
Carbon Disulfide	1	23.5369	0	20	118	50	150
t-Butyl Alcohol	1	49.8012	0	100	50	50	150
n-Hexane	1	27.5315	0	20	138*	70	130
Di-isopropyl-ether	1	22.2157	0	20	111	70	130
1,1-Dichloroethene	1	26.1461	0	20	131*	70	130
Methyl Acetate	1	10.8061	0	20	54	50	150
Methyl-t-butyl ether	1	19.6812	0	20	98	70	130
1,1-Dichloroethane	1	25.0831	0	20	125	70	130
trans-1,2-Dichloroethene	1	26.0515	0	20	130	70	130
Ethyl-t-butyl ether	1	20.5412	0	20	103	70	130
cis-1,2-Dichloroethene	1	23.9642	0	20	120	70	130
Bromochloromethane	1	24.8093	0	20	124	70	130
2,2-Dichloropropane	1	24.7177	0	20	124	70	130
Ethyl acetate	1	10.8343	0	20	54	50	150
1,4-Dioxane	1	585.43	0	1000	59	50	150
1,1-Dichloropropene	1	25.767	0	20	129	70	130
Chloroform	1	25.656	0	20	128	70	130
Cyclohexane	1	26.1093	0	20	131*	70	130
1,2-Dichloroethane	1	22.1282	0	20	111	70	130
2-Butanone	1	13.3291	0	20	67	50	150
1,1,1-Trichloroethane	1	25.8399	0	20	129	70	130
Carbon Tetrachloride	1	27.0982	0	20	135	50	150
Vinyl Acetate	1	19.5992	0	20	98	50	150
Bromodichloromethane	1	25.4509	0	20	127	70	130
Methylcyclohexane	1	27.4611	0	20	137*	70	130
Dibromomethane	1	23.159	0	20	116	70	130
1,2-Dichloropropane	1	25.3401	0	20	127	70	130
Trichloroethene	1	26.3282	0	20	132*	70	130
Benzene	1	25.5172	0	20	128	70	130
tert-Amyl methyl ether	1	19.2615	0	20	96	70	130
Iso-propylacetate	1	13.147	0	20	66*	70	130
Methyl methacrylate	1	12.209	0	20	61*	70	130
Dibromochloromethane	1	23.4136	0	20	117	70	130
2-Chloroethylvinylether	1	10.2336	0	20	51*	70	130
cis-1,3-Dichloropropene	1	22.466	0	20	112	70	130
trans-1,3-Dichloropropene	1	20.8918	0	20	104	70	130
Ethyl methacrylate	1	15.5264	0	20	78	70	130
1,1,2-Trichloroethane	1	21.3945	0	20	107	70	130
1,2-Dibromoethane	1	19.9744	0	20	100	70	130
1,3-Dichloropropane	1	21.5566	0	20	108	70	130
4-Methyl-2-Pentanone	1	11.8057	0	20	59	50	150
2-Hexanone	1	11.6032	0	20	58	50	150
Tetrachloroethene	1	26.252	0	20	131	50	150
Toluene	1	25.2601	0	20	126	70	130
1,1,1,2-Tetrachloroethane	1	23.6805	0	20	118	70	130
Chlorobenzene	1	24.8878	0	20	124	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99292

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.4122	0	20	82	70	130
n-Amyl acetate	1	15.9021	0	20	80	70	130
Bromoform	1	18.4663	0	20	92	70	130
Ethylbenzene	1	25.3916	0	20	127	70	130
1,1,2,2-Tetrachloroethane	1	16.2909	0	20	81	70	130
Styrene	1	24.6235	0	20	123	70	130
m&p-Xylenes	1	52.6796	0	40	132*	70	130
o-Xylene	1	25.2271	0	20	126	70	130
trans-1,4-Dichloro-2-butene	1	11.5566	0	20	58	50	150
1,3-Dichlorobenzene	1	25.1377	0	20	126	70	130
1,4-Dichlorobenzene	1	24.8138	0	20	124	70	130
1,2-Dichlorobenzene	1	24.4179	0	20	122	70	130
Isopropylbenzene	1	25.9891	0	20	130	70	130
Cyclohexanone	1	43.3206	0	100	43*	50	150
Camphene	1	13.2209	0	20	66*	70	130
1,2,3-Trichloropropane	1	14.7032	0	20	74	70	130
2-Chlorotoluene	1	24.8247	0	20	124	70	130
p-Ethyltoluene	1	24.733	0	20	124	70	130
4-Chlorotoluene	1	25.0465	0	20	125	70	130
n-Propylbenzene	1	26.5679	0	20	133*	70	130
Bromobenzene	1	21.4162	0	20	107	70	130
1,3,5-Trimethylbenzene	1	25.6354	0	20	128	70	130
Butyl methacrylate	1	19.1101	0	20	96	70	130
t-Butylbenzene	1	26.4939	0	20	132*	70	130
1,2,4-Trimethylbenzene	1	27.7822	0	20	139*	70	130
sec-Butylbenzene	1	26.1118	0	20	131*	70	130
4-Isopropyltoluene	1	24.4307	0	20	122	70	130
n-Butylbenzene	1	25.7447	0	20	129	70	130
p-Diethylbenzene	1	24.4872	0	20	122	70	130
1,2,4,5-Tetramethylbenzene	1	21.4918	0	20	107	70	130
1,2-Dibromo-3-Chloropropane	1	11.128	0	20	56	50	150
Camphor	1	85.1012	0	200	43	20	150
Hexachlorobutadiene	1	21.2207	0	20	106	50	150
1,2,4-Trichlorobenzene	1	18.8378	0	20	94	70	130
1,2,3-Trichlorobenzene	1	13.8892	0	20	69*	70	130
Naphthalene	1	14.645	0	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS99292

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162460.D	AD28247-010(MSD)	1/13/2022 5:51:00 PM
Duplicate(If applicable):	2M162459.D	AD28247-010(MS)	1/13/2022 5:32:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	23.005	24.8226	7.6	30
Dichlorodifluoromethane	1	33.5605	35.9711	6.9	30
Chloromethane	1	24.0821	27.287	12	30
Bromomethane	1	34.4584	33.4331	3	30
Vinyl Chloride	1	25.5844	27.8705	8.6	40
Chloroethane	1	24.5295	26.4019	7.4	30
Trichlorofluoromethane	1	26.2039	28.2246	7.4	30
Ethyl ether	1	17.8162	20.0961	12	30
Furan	1	18.5988	19.7002	5.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	26.9866	28.5366	5.6	30
Methylene Chloride	1	25.7943	27.4982	6.4	30
Acrolein	1	55.8854	75.5455	30	30
Acrylonitrile	1	12.0182	16.5436	32*	30
Iodomethane	1	34.4177	31.7502	8.1	30
Acetone	1	49.6203	69.6444	34*	30
Carbon Disulfide	1	23.5369	26.0996	10	30
t-Butyl Alcohol	1	49.8012	66.9496	29	30
n-Hexane	1	27.5315	27.4528	0.29	30
Di-isopropyl-ether	1	22.2157	23.2894	4.7	30
1,1-Dichloroethene	1	26.1461	27.3832	4.6	40
Methyl Acetate	1	10.8061	15.521	36*	30
Methyl-t-butyl ether	1	19.6812	23.1172	16	30
1,1-Dichloroethane	1	25.0831	26.3148	4.8	40
trans-1,2-Dichloroethene	1	26.0515	27.5808	5.7	30
Ethyl-t-butyl ether	1	20.5412	22.2795	8.1	30
cis-1,2-Dichloroethene	1	23.9642	25.6594	6.8	30
Bromochloromethane	1	24.8093	26.865	8	30
2,2-Dichloropropane	1	24.7177	25.6725	3.8	30
Ethyl acetate	1	10.8343	16.0312	39*	30
1,4-Dioxane	1	585.43	752.6669	25	30
1,1-Dichloropropene	1	25.767	27.0418	4.8	30
Chloroform	1	25.656	26.7025	4	40
Cyclohexane	1	26.1093	25.2807	3.2	30
1,2-Dichloroethane	1	22.1282	24.087	8.5	40
2-Butanone	1	13.3291	14.7015	9.8	40
1,1,1-Trichloroethane	1	25.8399	26.6784	3.2	30
Carbon Tetrachloride	1	27.0982	27.4383	1.2	40
Vinyl Acetate	1	19.5992	22.2159	13	30
Bromodichloromethane	1	25.4509	26.3651	3.5	30
Methylcyclohexane	1	27.4611	26.8605	2.2	30
Dibromomethane	1	23.159	26.1319	12	30
1,2-Dichloropropane	1	25.3401	26.7509	5.4	30
Trichloroethene	1	26.3282	27.7464	5.2	40
Benzene	1	25.5172	26.3125	3.1	40
tert-Amyl methyl ether	1	19.2615	21.5387	11	30
Iso-propylacetate	1	13.147	16.8159	24	30
Methyl methacrylate	1	12.209	15.2317	22	30
Dibromochloromethane	1	23.4136	25.563	8.8	30
2-Chloroethylvinylether	1	10.2336	1.6129	146*	30
cis-1,3-Dichloropropene	1	22.466	23.5775	4.8	30
trans-1,3-Dichloropropene	1	20.8918	22.5607	7.7	30
Ethyl methacrylate	1	15.5264	18.2798	16	30
1,1,2-Trichloroethane	1	21.3945	24.552	14	30
1,2-Dibromoethane	1	19.9744	23.5797	17	30
1,3-Dichloropropane	1	21.5566	23.9605	11	30
4-Methyl-2-Pentanone	1	11.8057	15.4407	27	30
2-Hexanone	1	11.6032	16.0647	32*	30
Tetrachloroethene	1	26.252	26.8566	2.3	40
Toluene	1	25.2601	27.7028	9.2	40
1,1,1,2-Tetrachloroethane	1	23.6805	24.9133	5.1	30
Chlorobenzene	1	24.8878	25.562	2.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS99292

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	16.4122	19.7937	19	30
n-Amyl acetate	1	15.9021	19.2414	19	30
Bromoform	1	18.4663	20.6613	11	30
Ethylbenzene	1	25.3916	25.9206	2.1	30
1,1,2,2-Tetrachloroethane	1	16.2909	19.3228	17	30
Styrene	1	24.6235	24.3101	1.3	30
m&p-Xylenes	1	52.6796	56.6896	7.3	30
o-Xylene	1	25.2271	26.6942	5.7	30
trans-1,4-Dichloro-2-butene	1	11.5566	15.4736	29	30
1,3-Dichlorobenzene	1	25.1377	24.1697	3.9	30
1,4-Dichlorobenzene	1	24.8138	24.1555	2.7	40
1,2-Dichlorobenzene	1	24.4179	24.041	1.6	40
Isopropylbenzene	1	25.9891	25.2067	3.1	30
Cyclohexanone	1	43.3206	59.446	31 *	30
Camphene	1	13.2209	13.9071	5.1	30
1,2,3-Trichloropropane	1	14.7032	17.4204	17	30
2-Chlorotoluene	1	24.8247	23.6838	4.7	30
p-Ethyltoluene	1	24.733	28.3819	14	30
4-Chlorotoluene	1	25.0465	23.1112	8	30
n-Propylbenzene	1	26.5679	26.2259	1.3	40
Bromobenzene	1	21.4162	21.7232	1.4	30
1,3,5-Trimethylbenzene	1	25.6354	26.8261	4.5	30
Butyl methacrylate	1	19.1101	20.1472	5.3	30
t-Butylbenzene	1	26.4939	25.9593	2	30
1,2,4-Trimethylbenzene	1	27.7822	34.7958	22	30
sec-Butylbenzene	1	26.1118	24.9786	4.4	40
4-Isopropyltoluene	1	24.4307	23.8325	2.5	30
n-Butylbenzene	1	25.7447	26.2506	1.9	30
p-Diethylbenzene	1	24.4872	30.6932	22	30
1,2,4,5-Tetramethylbenzene	1	21.4918	23.6223	9.4	30
1,2-Dibromo-3-Chloropropane	1	11.128	14.3911	26	30
Camphor	1	85.1012	107.1272	23	30
Hexachlorobutadiene	1	21.2207	24.1776	13	30
1,2,4-Trichlorobenzene	1	18.8378	20.9781	11	30
1,2,3-Trichlorobenzene	1	13.8892	16.6122	18	30
Naphthalene	1	14.645	31.6694	74 *	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99326

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162752.D	MBS99326	1/19/2022 1:45:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.0222	0	20	100	50	150
Dichlorodifluoromethane	1	4.6647	0	20	23 *	50	150
Chloromethane	1	11.2428	0	20	56	50	150
Bromomethane	1	16.1592	0	20	81	50	150
Vinyl Chloride	1	11.191	0	20	56	50	150
Chloroethane	1	15.9356	0	20	80	50	150
Trichlorofluoromethane	1	15.3611	0	20	77	50	150
Ethyl ether	1	18.923	0	20	95	50	150
Furan	1	18.1279	0	20	91	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	16.6235	0	20	83	50	150
Methylene Chloride	1	19.6507	0	20	98	70	130
Acrolein	1	102.0518	0	100	102	50	150
Acrylonitrile	1	20.3867	0	20	102	50	150
Iodomethane	1	15.9797	0	20	80	50	150
Acetone	1	103.1276	0	100	103	50	150
Carbon Disulfide	1	15.6482	0	20	78	50	150
t-Butyl Alcohol	1	105.8493	0	100	106	50	150
n-Hexane	1	17.4762	0	20	87	70	130
Di-isopropyl-ether	1	20.6862	0	20	103	70	130
1,1-Dichloroethene	1	16.6312	0	20	83	70	130
Methyl Acetate	1	19.9976	0	20	100	50	150
Methyl-t-butyl ether	1	20.3836	0	20	102	70	130
1,1-Dichloroethane	1	19.9258	0	20	100	70	130
trans-1,2-Dichloroethene	1	18.8406	0	20	94	70	130
Ethyl-t-butyl ether	1	20.8163	0	20	104	70	130
cis-1,2-Dichloroethene	1	19.9681	0	20	100	70	130
Bromochloromethane	1	20.9897	0	20	105	70	130
2,2-Dichloropropane	1	21.2045	0	20	106	70	130
Ethyl acetate	1	21.8634	0	20	109	50	150
1,4-Dioxane	1	1122.6	0	1000	112	50	150
1,1-Dichloropropene	1	19.073	0	20	95	70	130
Chloroform	1	20.7813	0	20	104	70	130
Cyclohexane	1	17.2305	0	20	86	70	130
1,2-Dichloroethane	1	20.3763	0	20	102	70	130
2-Butanone	1	19.9557	0	20	100	50	150
1,1,1-Trichloroethane	1	19.4535	0	20	97	70	130
Carbon Tetrachloride	1	19.6419	0	20	98	50	150
Vinyl Acetate	1	21.0414	0	20	105	50	150
Bromodichloromethane	1	21.0735	0	20	105	70	130
Methylcyclohexane	1	18.7264	0	20	94	70	130
Dibromomethane	1	21.0357	0	20	105	70	130
1,2-Dichloropropane	1	20.6769	0	20	103	70	130
Trichloroethene	1	20.3056	0	20	102	70	130
Benzene	1	20.2609	0	20	101	70	130
tert-Amyl methyl ether	1	21.946	0	20	110	70	130
Iso-propylacetate	1	22.4811	0	20	112	70	130
Methyl methacrylate	1	21.7716	0	20	109	70	130
Dibromochloromethane	1	22.9634	0	20	115	70	130
2-Chloroethylvinylether	1	25.0717	0	20	125	70	130
cis-1,3-Dichloropropene	1	23.1411	0	20	116	70	130
trans-1,3-Dichloropropene	1	23.2306	0	20	116	70	130
Ethyl methacrylate	1	22.8936	0	20	114	70	130
1,1,2-Trichloroethane	1	22.7323	0	20	114	70	130
1,2-Dibromoethane	1	22.9097	0	20	115	70	130
1,3-Dichloropropane	1	22.7716	0	20	114	70	130
4-Methyl-2-Pentanone	1	22.5341	0	20	113	50	150
2-Hexanone	1	22.4046	0	20	112	50	150
Tetrachloroethene	1	21.0301	0	20	105	50	150
Toluene	1	21.6918	0	20	108	70	130
1,1,1,2-Tetrachloroethane	1	20.8879	0	20	104	70	130
Chlorobenzene	1	21.3477	0	20	107	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99326

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	21.107	0	20	106	70	130
n-Amyl acetate	1	20.8389	0	20	104	70	130
Bromoform	**1**	**20.5737**	**0**	**20**	**103**	**70**	**130**
Ethylbenzene	**1**	**19.2959**	**0**	**20**	**96**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**19.8778**	**0**	**20**	**99**	**70**	**130**
Styrene	**1**	**21.2336**	**0**	**20**	**106**	**70**	**130**
m&p-Xylenes	**1**	**40.2929**	**0**	**40**	**101**	**70**	**130**
o-Xylene	**1**	**20.7346**	**0**	**20**	**104**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	18.0274	0	20	90	50	150
1,3-Dichlorobenzene	**1**	**21.2686**	**0**	**20**	**106**	**70**	**130**
1,4-Dichlorobenzene	**1**	**21.3454**	**0**	**20**	**107**	**70**	**130**
1,2-Dichlorobenzene	**1**	**23.3796**	**0**	**20**	**117**	**70**	**130**
Isopropylbenzene	**1**	**19.5234**	**0**	**20**	**98**	**70**	**130**
Cyclohexanone	1	99.8672	0	100	100	50	150
Camphene	1	19.2087	0	20	96	70	130
1,2,3-Trichloropropane	1	19.4323	0	20	97	70	130
2-Chlorotoluene	1	19.703	0	20	99	70	130
p-Ethyltoluene	1	19.9715	0	20	100	70	130
4-Chlorotoluene	1	19.0972	0	20	95	70	130
n-Propylbenzene	1	19.6085	0	20	98	70	130
Bromobenzene	1	19.1793	0	20	96	70	130
1,3,5-Trimethylbenzene	1	19.6679	0	20	98	70	130
Butyl methacrylate	1	18.7238	0	20	94	70	130
t-Butylbenzene	1	20.1734	0	20	101	70	130
1,2,4-Trimethylbenzene	1	20.2136	0	20	101	70	130
sec-Butylbenzene	1	20.2392	0	20	101	70	130
4-Isopropyltoluene	1	20.4587	0	20	102	70	130
n-Butylbenzene	1	22.2712	0	20	111	70	130
p-Diethylbenzene	1	22.0182	0	20	110	70	130
1,2,4,5-Tetramethylbenzene	1	23.7193	0	20	119	70	130
1,2-Dibromo-3-Chloropropane	**1**	**22.0805**	**0**	**20**	**110**	**50**	**150**
Camphor	1	217.0838	0	200	109	20	150
Hexachlorobutadiene	1	23.0631	0	20	115	50	150
1,2,4-Trichlorobenzene	**1**	**24.1577**	**0**	**20**	**121**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**24.3842**	**0**	**20**	**122**	**70**	**130**
Naphthalene	1	24.1044	0	20	121	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99326

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162763.D	AD28258-010(MS)	1/19/2022 5:24:00 PM
Non Spike(If applicable):	2M162748.D	AD28258-010	1/19/2022 12:26:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	25.0711	0	20	125	50	150
Dichlorodifluoromethane	1	5.6362	0	20	28*	50	150
Chloromethane	1	12.1488	0	20	61	50	150
Bromomethane	1	16.464	0	20	82	50	150
Vinyl Chloride	1	12.3541	0	20	62	50	150
Chloroethane	1	15.9131	0	20	80	50	150
Trichlorofluoromethane	1	16.7907	0	20	84	50	150
Ethyl ether	1	19.0693	0	20	95	50	150
Furan	1	19.6578	0	20	98	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	18.0342	0	20	90	50	150
Methylene Chloride	1	19.1135	0	20	96	70	130
Acrolein	1	103.5138	0	100	104	50	150
Acrylonitrile	1	19.5193	0	20	98	50	150
Iodomethane	1	13.5209	0	20	68	50	150
Acetone	1	103.6989	0	100	104	50	150
Carbon Disulfide	1	16.7591	0	20	84	50	150
t-Butyl Alcohol	1	104.0016	0	100	104	50	150
n-Hexane	1	18.8824	0	20	94	70	130
Di-isopropyl-ether	1	20.562	0	20	103	70	130
1,1-Dichloroethene	1	18.6985	0	20	93	70	130
Methyl Acetate	1	18.9367	0	20	95	50	150
Methyl-t-butyl ether	1	19.5899	0	20	98	70	130
1,1-Dichloroethane	1	19.7404	0	20	99	70	130
trans-1,2-Dichloroethene	1	18.9548	0	20	95	70	130
Ethyl-t-butyl ether	1	20.3746	0	20	102	70	130
cis-1,2-Dichloroethene	1	19.9162	0	20	100	70	130
Bromochloromethane	1	20.7339	0	20	104	70	130
2,2-Dichloropropane	1	20.8584	0	20	104	70	130
Ethyl acetate	1	20.1257	0	20	101	50	150
1,4-Dioxane	1	981.9954	0	1000	98	50	150
1,1-Dichloropropene	1	20.2046	0	20	101	70	130
Chloroform	1	20.4255	0	20	102	70	130
Cyclohexane	1	19.2942	0	20	96	70	130
1,2-Dichloroethane	1	19.665	0	20	98	70	130
2-Butanone	1	19.3838	0	20	97	50	150
1,1,1-Trichloroethane	1	20.0716	0	20	100	70	130
Carbon Tetrachloride	1	20.1197	0	20	101	50	150
Vinyl Acetate	1	20.257	0	20	101	50	150
Bromodichloromethane	1	19.7855	0	20	99	70	130
Methylcyclohexane	1	20.3052	0	20	102	70	130
Dibromomethane	1	19.561	0	20	98	70	130
1,2-Dichloropropane	1	19.6483	0	20	98	70	130
Trichloroethene	1	20.0654	0	20	100	70	130
Benzene	1	19.8938	0	20	99	70	130
tert-Amyl methyl ether	1	20.0624	0	20	100	70	130
Iso-propylacetate	1	20.2725	0	20	101	70	130
Methyl methacrylate	1	19.4176	0	20	97	70	130
Dibromochloromethane	1	20.3561	0	20	102	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	20.5511	0	20	103	70	130
trans-1,3-Dichloropropene	1	20.7751	0	20	104	70	130
Ethyl methacrylate	1	21.8706	0	20	109	70	130
1,1,2-Trichloroethane	1	20.5759	0	20	103	70	130
1,2-Dibromoethane	1	20.3938	0	20	102	70	130
1,3-Dichloropropane	1	20.5832	0	20	103	70	130
4-Methyl-2-Pentanone	1	21.3773	0	20	107	50	150
2-Hexanone	1	21.5802	0	20	108	50	150
Tetrachloroethene	1	20.3285	0	20	102	50	150
Toluene	1	20.3461	0	20	102	70	130
1,1,1,2-Tetrachloroethane	1	20.2609	0	20	101	70	130
Chlorobenzene	1	20.5941	0	20	103	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99326

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	22.6084	0	20	113	70	130
n-Amyl acetate	1	23.0075	0	20	115	70	130
Bromoform	1	18.8845	0	20	94	70	130
Ethylbenzene	1	19.5697	0	20	98	70	130
1,1,2,2-Tetrachloroethane	1	19.7108	0	20	99	70	130
Styrene	1	20.302	0	20	102	70	130
m&p-Xylenes	1	40.8572	0	40	102	70	130
o-Xylene	1	19.861	0	20	99	70	130
trans-1,4-Dichloro-2-butene	1	17.5389	0	20	88	50	150
1,3-Dichlorobenzene	1	20.4389	0	20	102	70	130
1,4-Dichlorobenzene	1	20.261	0	20	101	70	130
1,2-Dichlorobenzene	1	20.5409	0	20	103	70	130
Isopropylbenzene	1	20.9318	0	20	105	70	130
Cyclohexanone	1	116.8837	0	100	117	50	150
Camphene	1	4.5015	0	20	23*	70	130
1,2,3-Trichloropropane	1	20.1358	0	20	101	70	130
2-Chlorotoluene	1	20.8692	0	20	104	70	130
p-Ethyltoluene	1	21.4351	0	20	107	70	130
4-Chlorotoluene	1	19.9893	0	20	100	70	130
n-Propylbenzene	1	21.5736	0	20	108	70	130
Bromobenzene	1	18.8585	0	20	94	70	130
1,3,5-Trimethylbenzene	1	20.0971	0	20	100	70	130
Butyl methacrylate	1	24.782	0	20	124	70	130
t-Butylbenzene	1	21.2372	0	20	106	70	130
1,2,4-Trimethylbenzene	1	21.2361	0	20	106	70	130
sec-Butylbenzene	1	22.1968	0	20	111	70	130
4-Isopropyltoluene	1	21.7926	0	20	109	70	130
n-Butylbenzene	1	23.8931	0	20	119	70	130
p-Diethylbenzene	1	22.6546	0	20	113	70	130
1,2,4,5-Tetramethylbenzene	1	28.9842	0	20	145*	70	130
1,2-Dibromo-3-Chloropropane	1	18.7884	0	20	94	50	150
Camphor	1	221.9754	0	200	111	20	150
Hexachlorobutadiene	1	23.9213	0	20	120	50	150
1,2,4-Trichlorobenzene	1	21.9502	0	20	110	70	130
1,2,3-Trichlorobenzene	1	24.3943	0	20	122	70	130
Naphthalene	1	22.7181	0	20	114	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99326

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162764.D	AD28258-010(MSD)	1/19/2022 5:43:00 PM
Non Spike(If applicable):	2M162748.D	AD28258-010	1/19/2022 12:26:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	22.4028	0	20	112	50	150
Dichlorodifluoromethane	1	4.99	0	20	25*	50	150
Chloromethane	1	9.9844	0	20	50	50	150
Bromomethane	1	13.1283	0	20	66	50	150
Vinyl Chloride	1	11.0422	0	20	55	50	150
Chloroethane	1	14.2529	0	20	71	50	150
Trichlorofluoromethane	1	15.4741	0	20	77	50	150
Ethyl ether	1	18.0594	0	20	90	50	150
Furan	1	17.7045	0	20	89	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.1787	0	20	86	50	150
Methylene Chloride	1	17.8135	0	20	89	70	130
Acrolein	1	95.9894	0	100	96	50	150
Acrylonitrile	1	19.1864	0	20	96	50	150
Iodomethane	1	14.2907	0	20	71	50	150
Acetone	1	100.049	0	100	100	50	150
Carbon Disulfide	1	14.7462	0	20	74	50	150
t-Butyl Alcohol	1	106.3371	0	100	106	50	150
n-Hexane	1	19.1562	0	20	96	70	130
Di-isopropyl-ether	1	19.3864	0	20	97	70	130
1,1-Dichloroethene	1	16.7267	0	20	84	70	130
Methyl Acetate	1	18.0011	0	20	90	50	150
Methyl-t-butyl ether	1	18.9713	0	20	95	70	130
1,1-Dichloroethane	1	18.4073	0	20	92	70	130
trans-1,2-Dichloroethene	1	17.5287	0	20	88	70	130
Ethyl-t-butyl ether	1	19.4204	0	20	97	70	130
cis-1,2-Dichloroethene	1	18.7035	0	20	94	70	130
Bromochloromethane	1	19.6194	0	20	98	70	130
2,2-Dichloropropane	1	19.4457	0	20	97	70	130
Ethyl acetate	1	19.6646	0	20	98	50	150
1,4-Dioxane	1	1035.624	0	1000	104	50	150
1,1-Dichloropropene	1	18.7649	0	20	94	70	130
Chloroform	1	19.1135	0	20	96	70	130
Cyclohexane	1	19.404	0	20	97	70	130
1,2-Dichloroethane	1	19.279	0	20	96	70	130
2-Butanone	1	19.0288	0	20	95	50	150
1,1,1-Trichloroethane	1	19.2042	0	20	96	70	130
Carbon Tetrachloride	1	19.8245	0	20	99	50	150
Vinyl Acetate	1	19.2507	0	20	96	50	150
Bromodichloromethane	1	19.8981	0	20	99	70	130
Methylcyclohexane	1	20.765	0	20	104	70	130
Dibromomethane	1	18.8183	0	20	94	70	130
1,2-Dichloropropane	1	19.308	0	20	97	70	130
Trichloroethene	1	18.89	0	20	94	70	130
Benzene	1	18.629	0	20	93	70	130
tert-Amyl methyl ether	1	20.1322	0	20	101	70	130
Iso-propylacetate	1	19.8739	0	20	99	70	130
Methyl methacrylate	1	20.081	0	20	100	70	130
Dibromochloromethane	1	20.5245	0	20	103	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	19.7687	0	20	99	70	130
trans-1,3-Dichloropropene	1	19.9808	0	20	100	70	130
Ethyl methacrylate	1	21.2852	0	20	106	70	130
1,1,2-Trichloroethane	1	19.9943	0	20	100	70	130
1,2-Dibromoethane	1	19.7662	0	20	99	70	130
1,3-Dichloropropane	1	28.509	0	20	143*	70	130
4-Methyl-2-Pentanone	1	21.2247	0	20	106	50	150
2-Hexanone	1	21.5043	0	20	108	50	150
Tetrachloroethene	1	19.3562	0	20	97	50	150
Toluene	1	19.172	0	20	96	70	130
1,1,1,2-Tetrachloroethane	1	19.7673	0	20	99	70	130
Chlorobenzene	1	19.6959	0	20	98	70	130

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS99326

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	21.5432	0	20	108	70	130
n-Amyl acetate	1	20.9263	0	20	105	70	130
Bromoform	1	18.2936	0	20	91	70	130
Ethylbenzene	1	18.7907	0	20	94	70	130
1,1,2,2-Tetrachloroethane	1	18.6204	0	20	93	70	130
Styrene	1	19.4177	0	20	97	70	130
m&p-Xylenes	1	38.4197	0	40	96	70	130
o-Xylene	1	18.739	0	20	94	70	130
trans-1,4-Dichloro-2-butene	1	15.5805	0	20	78	50	150
1,3-Dichlorobenzene	1	19.7314	0	20	99	70	130
1,4-Dichlorobenzene	1	19.6199	0	20	98	70	130
1,2-Dichlorobenzene	1	20.0696	0	20	100	70	130
Isopropylbenzene	1	20.4306	0	20	102	70	130
Cyclohexanone	1	111.7782	0	100	112	50	150
Camphene	1	4.3249	0	20	22*	70	130
1,2,3-Trichloropropane	1	19.2964	0	20	96	70	130
2-Chlorotoluene	1	20.3054	0	20	102	70	130
p-Ethyltoluene	1	20.8376	0	20	104	70	130
4-Chlorotoluene	1	19.6932	0	20	98	70	130
n-Propylbenzene	1	20.8866	0	20	104	70	130
Bromobenzene	1	18.4086	0	20	92	70	130
1,3,5-Trimethylbenzene	1	20.1962	0	20	101	70	130
Butyl methacrylate	1	22.4114	0	20	112	70	130
t-Butylbenzene	1	20.8648	0	20	104	70	130
1,2,4-Trimethylbenzene	1	20.6948	0	20	103	70	130
sec-Butylbenzene	1	21.5487	0	20	108	70	130
4-Isopropyltoluene	1	21.2796	0	20	106	70	130
n-Butylbenzene	1	22.265	0	20	111	70	130
p-Diethylbenzene	1	21.7373	0	20	109	70	130
1,2,4,5-Tetramethylbenzene	1	24.8685	0	20	124	70	130
1,2-Dibromo-3-Chloropropane	1	19.3752	0	20	97	50	150
Camphor	1	227.9987	0	200	114	20	150
Hexachlorobutadiene	1	19.3389	0	20	97	50	150
1,2,4-Trichlorobenzene	1	21.339	0	20	107	70	130
1,2,3-Trichlorobenzene	1	22.3372	0	20	112	70	130
Naphthalene	1	22.1962	0	20	111	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS99326

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M162764.D	AD28258-010(MSD)	1/19/2022 5:43:00 PM
Duplicate(If applicable):	2M162763.D	AD28258-010(MS)	1/19/2022 5:24:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	22.4028	25.0711	11	30
Dichlorodifluoromethane	1	4.99	5.6362	12	30
Chloromethane	1	9.9844	12.1488	20	30
Bromomethane	1	13.1283	16.464	23	30
Vinyl Chloride	1	11.0422	12.3541	11	40
Chloroethane	1	14.2529	15.9131	11	30
Trichlorofluoromethane	1	15.4741	16.7907	8.2	30
Ethyl ether	1	18.0594	19.0693	5.4	30
Furan	1	17.7045	19.6578	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.1787	18.0342	4.9	30
Methylene Chloride	1	17.8135	19.1135	7	30
Acrolein	1	95.9894	103.5138	7.5	30
Acrylonitrile	1	19.1864	19.5193	1.7	30
Iodomethane	1	14.2907	13.5209	5.5	30
Acetone	1	100.049	103.6989	3.6	30
Carbon Disulfide	1	14.7462	16.7591	13	30
t-Butyl Alcohol	1	106.3371	104.0016	2.2	30
n-Hexane	1	19.1562	18.8824	1.4	30
Di-isopropyl-ether	1	19.3864	20.562	5.9	30
1,1-Dichloroethene	1	16.7267	18.6985	11	40
Methyl Acetate	1	18.0011	18.9367	5.1	30
Methyl-t-butyl ether	1	18.9713	19.5899	3.2	30
1,1-Dichloroethane	1	18.4073	19.7404	7	40
trans-1,2-Dichloroethene	1	17.5287	18.9548	7.8	30
Ethyl-t-butyl ether	1	19.4204	20.3746	4.8	30
cis-1,2-Dichloroethene	1	18.7035	19.9162	6.3	30
Bromochloromethane	1	19.6194	20.7339	5.5	30
2,2-Dichloropropane	1	19.4457	20.8584	7	30
Ethyl acetate	1	19.6646	20.1257	2.3	30
1,4-Dioxane	1	1035.624	981.9954	5.3	30
1,1-Dichloropropene	1	18.7649	20.2046	7.4	30
Chloroform	1	19.1135	20.4255	6.6	40
Cyclohexane	1	19.404	19.2942	0.57	30
1,2-Dichloroethane	1	19.279	19.665	2	40
2-Butanone	1	19.0288	19.3838	1.8	40
1,1,1-Trichloroethane	1	19.2042	20.0716	4.4	30
Carbon Tetrachloride	1	19.8245	20.1197	1.5	40
Vinyl Acetate	1	19.2507	20.257	5.1	30
Bromodichloromethane	1	19.8981	19.7855	0.57	30
Methylcyclohexane	1	20.765	20.3052	2.2	30
Dibromomethane	1	18.8183	19.561	3.9	30
1,2-Dichloropropane	1	19.308	19.6483	1.7	30
Trichloroethene	1	18.89	20.0654	6	40
Benzene	1	18.629	19.8938	6.6	40
tert-Amyl methyl ether	1	20.1322	20.0624	0.35	30
Iso-propylacetate	1	19.8739	20.2725	2	30
Methyl methacrylate	1	20.081	19.4176	3.4	30
Dibromochloromethane	1	20.5245	20.3561	0.82	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	19.7687	20.5511	3.9	30
trans-1,3-Dichloropropene	1	19.9808	20.7751	3.9	30
Ethyl methacrylate	1	21.2852	21.8706	2.7	30
1,1,2-Trichloroethane	1	19.9943	20.5759	2.9	30
1,2-Dibromoethane	1	19.7662	20.3938	3.1	30
1,3-Dichloropropane	1	28.509	20.5832	32*	30
4-Methyl-2-Pentanone	1	21.2247	21.3773	0.72	30
2-Hexanone	1	21.5043	21.5802	0.35	30
Tetrachloroethene	1	19.3562	20.3285	4.9	40
Toluene	1	19.172	20.3461	5.9	40
1,1,1,2-Tetrachloroethane	1	19.7673	20.2609	2.5	30
Chlorobenzene	1	19.6959	20.5941	4.5	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS99326

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	21.5432	22.6084	4.8	30
n-Amyl acetate	1	20.9263	23.0075	9.5	30
Bromoform	1	18.2936	18.8845	3.2	30
Ethylbenzene	1	18.7907	19.5697	4.1	30
1,1,2,2-Tetrachloroethane	1	18.6204	19.7108	5.7	30
Styrene	1	19.4177	20.302	4.5	30
m&p-Xylenes	1	38.4197	40.8572	6.1	30
o-Xylene	1	18.739	19.861	5.8	30
trans-1,4-Dichloro-2-butene	1	15.5805	17.5389	12	30
1,3-Dichlorobenzene	1	19.7314	20.4389	3.5	30
1,4-Dichlorobenzene	1	19.6199	20.261	3.2	40
1,2-Dichlorobenzene	1	20.0696	20.5409	2.3	40
Isopropylbenzene	1	20.4306	20.9318	2.4	30
Cyclohexanone	1	111.7782	116.8837	4.5	30
Camphene	1	4.3249	4.5015	4	30
1,2,3-Trichloropropane	1	19.2964	20.1358	4.3	30
2-Chlorotoluene	1	20.3054	20.8692	2.7	30
p-Ethyltoluene	1	20.8376	21.4351	2.8	30
4-Chlorotoluene	1	19.6932	19.9893	1.5	30
n-Propylbenzene	1	20.8866	21.5736	3.2	40
Bromobenzene	1	18.4086	18.8585	2.4	30
1,3,5-Trimethylbenzene	1	20.1962	20.0971	0.49	30
Butyl methacrylate	1	22.4114	24.782	10	30
t-Butylbenzene	1	20.8648	21.2372	1.8	30
1,2,4-Trimethylbenzene	1	20.6948	21.2361	2.6	30
sec-Butylbenzene	1	21.5487	22.1968	3	40
4-Isopropyltoluene	1	21.2796	21.7926	2.4	30
n-Butylbenzene	1	22.265	23.8931	7.1	30
p-Diethylbenzene	1	21.7373	22.6546	4.1	30
1,2,4,5-Tetramethylbenzene	1	24.8685	28.9842	15	30
1,2-Dibromo-3-Chloropropane	1	19.3752	18.7884	3.1	30
Camphor	1	227.9987	221.9754	2.7	30
Hexachlorobutadiene	1	19.3389	23.9213	21	30
1,2,4-Trichlorobenzene	1	21.339	21.9502	2.8	30
1,2,3-Trichlorobenzene	1	22.3372	24.3943	8.8	30
Naphthalene	1	22.1962	22.7181	2.3	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M162410.D
Matrix: Aqueous

Blank Analysis Date: 01/13/22 01:12
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD28258-001	2M162426.D	01/13/22 06:30
AD28258-002	2M162427.D	01/13/22 06:50
AD28258-003	2M162428.D	01/13/22 07:10
AD28258-004	2M162429.D	01/13/22 07:30
AD28258-005	2M162431.D	01/13/22 08:10
AD28258-006	2M162432.D	01/13/22 08:29
AD28258-007	2M162433.D	01/13/22 08:49
AD28258-008	2M162434.D	01/13/22 09:09
AD28256-008(MS:	2M162416.D	01/13/22 03:11
AD28256-009(MSD	2M162417.D	01/13/22 03:31
MBS99290	2M162435.D	01/13/22 09:29
AD28256-003	2M162412.D	01/13/22 01:52

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M162445.D
Matrix: Aqueous

Blank Analysis Date: 01/13/22 12:54
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD28258-012	2M162469.D	01/13/22 20:50
AD28258-013	2M162470.D	01/13/22 21:09
AD28258-014	2M162471.D	01/13/22 21:29
AD28258-015	2M162472.D	01/13/22 21:49
AD28258-016	2M162464.D	01/13/22 19:11
AD28247-010(MSD	2M162460.D	01/13/22 17:51
AD28247-010	2M162446.D	01/13/22 13:14
MBS99292	2M162449.D	01/13/22 14:14
AD28247-010(MS)	2M162459.D	01/13/22 17:32

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M162746.D
Matrix: Aqueous

Blank Analysis Date: 01/19/22 11:46
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD28258-009	2M162747.D	01/19/22 12:06
AD28258-010	2M162748.D	01/19/22 12:26
AD28258-011	2M162750.D	01/19/22 13:06
MBS99326	2M162752.D	01/19/22 13:45
AD28258-010(MS)	2M162763.D	01/19/22 17:24
AD28258-010(MSD	2M162764.D	01/19/22 17:43

Form 5

Tune Name: BFB TUNE **Data File:** 2M161959.D
Instrument: GCMS 2 **Analysis Date:** 01/03/22 21:18
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.330 to 7.373 min

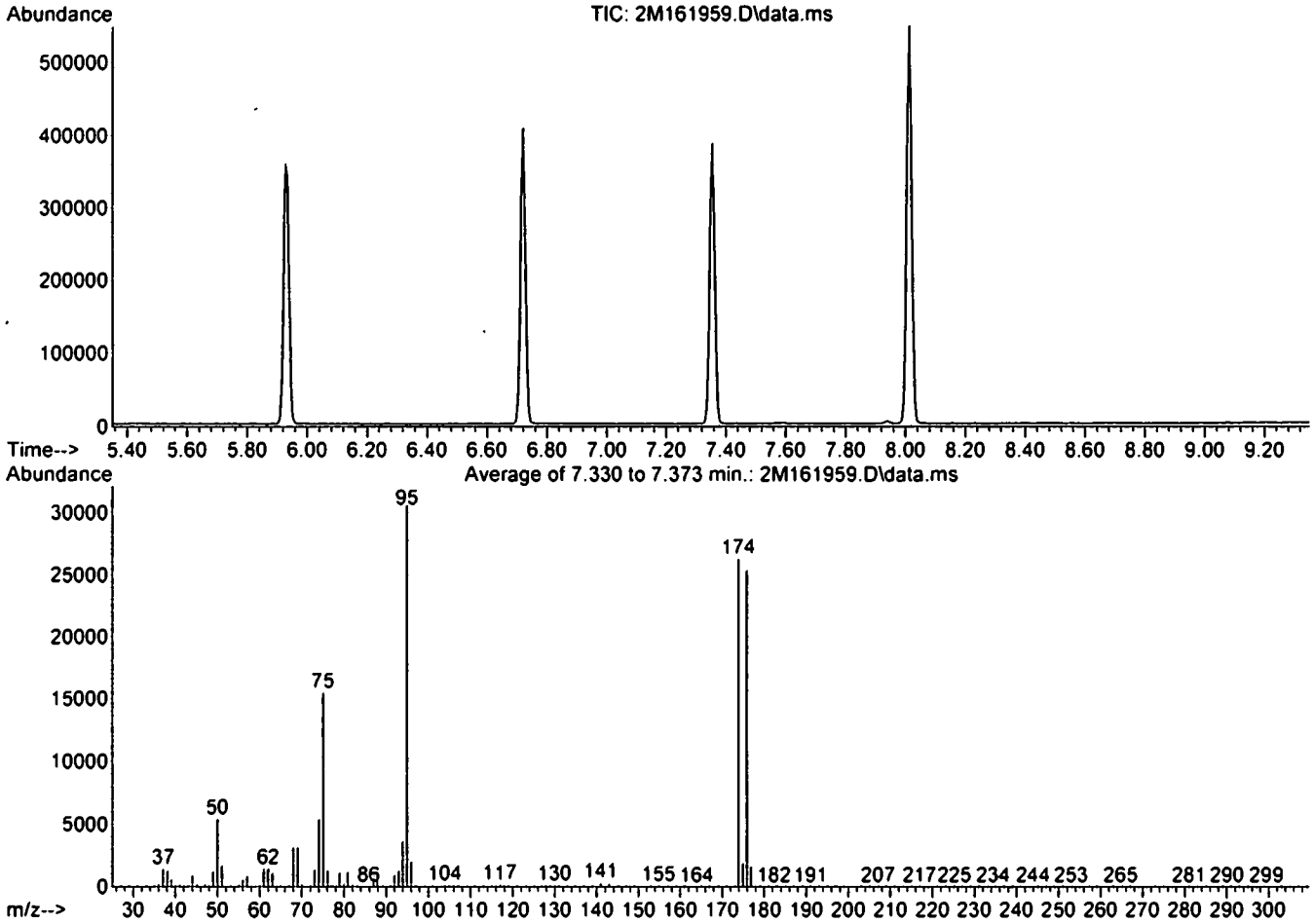
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.7	5437	PASS
75	95	30	60	50.6	15521	PASS
95	95	100	100	100.0	30645	PASS
96	95	5	9	6.7	2051	PASS
173	174	0.00	2	0.1	14	PASS
174	95	50	100	85.9	26334	PASS
175	174	5	9	7.3	1934	PASS
176	174	95	101	96.6	25440	PASS
177	176	5	9	6.4	1632	PASS

Data File	Sample Number	Analysis Date:
2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53
2M161962.D	CAL @ 1 PPB	01/03/22 22:13
2M161963.D	CAL @ 5 PPB	01/03/22 22:33
2M161964.D	CAL @ 10 PPB	01/03/22 22:53
2M161965.D	CAL @ 20 PPB	01/03/22 23:12
2M161967.D	CAL @ 50 PPB	01/03/22 23:52
2M161969.D	CAL @ 100 PPB	01/04/22 00:32
2M161971.D	CAL @ 250 PPB	01/04/22 01:12
2M161973.D	CAL @ 500 PPB	01/04/22 01:51
2M161975.D	BLK	01/04/22 02:31
2M161978.D	1 PPB	01/04/22 03:30
2M161979.D	ICV	01/04/22 03:50
2M161980.D	STD	01/04/22 04:10
2M161981.D	BLK	01/04/22 04:29
2M161982.D	BLK	01/04/22 04:49
2M161983.D	DAILY BLANK	01/04/22 05:09
2M161984.D	DAILY BLANK	01/04/22 05:29
2M161985.D	MDL @ 1 PPB	01/04/22 05:48
2M161986.D	MDL @ 1 PPB	01/04/22 06:08
2M161987.D	@ 1 PPB	01/04/22 06:28
2M161988.D	1 PPB	01/04/22 06:47
2M161989.D	MBS99204	01/04/22 07:07
2M161990.D	MBS99205	01/04/22 07:26
2M161991.D	MBS99206	01/04/22 07:46
2M161992.D	MBS99207	01/04/22 08:06
2M161993.D	MBS99208	01/04/22 08:25
2M161994.D	MBS99209	01/04/22 08:45
2M161995.D	MBS99210	01/04/22 09:05
2M161996.D	BLK	01/04/22 09:25

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-03-22\
Data File : 2M161959.D
Acq On : 03 Jan 2022 21:18
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A1222.M
Title : @GCMS_2,ug,624,8260
Last Update : Thu Dec 23 17:12:26 2021



Spectrum Information: Average of 7.330 to 7.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	5437	PASS
75	95	30	60	50.6	15521	PASS
95	95	100	100	100.0	30645	PASS
96	95	5	9	6.7	2051	PASS
173	174	0.00	2	0.1	14	PASS
174	95	50	100	85.9	26334	PASS
175	174	5	9	7.3	1934	PASS
176	174	95	101	96.6	25440	PASS
177	176	5	9	6.4	1632	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M162680.D
Analysis Date: 01/18/22 13:55
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.348 to 7.360 min

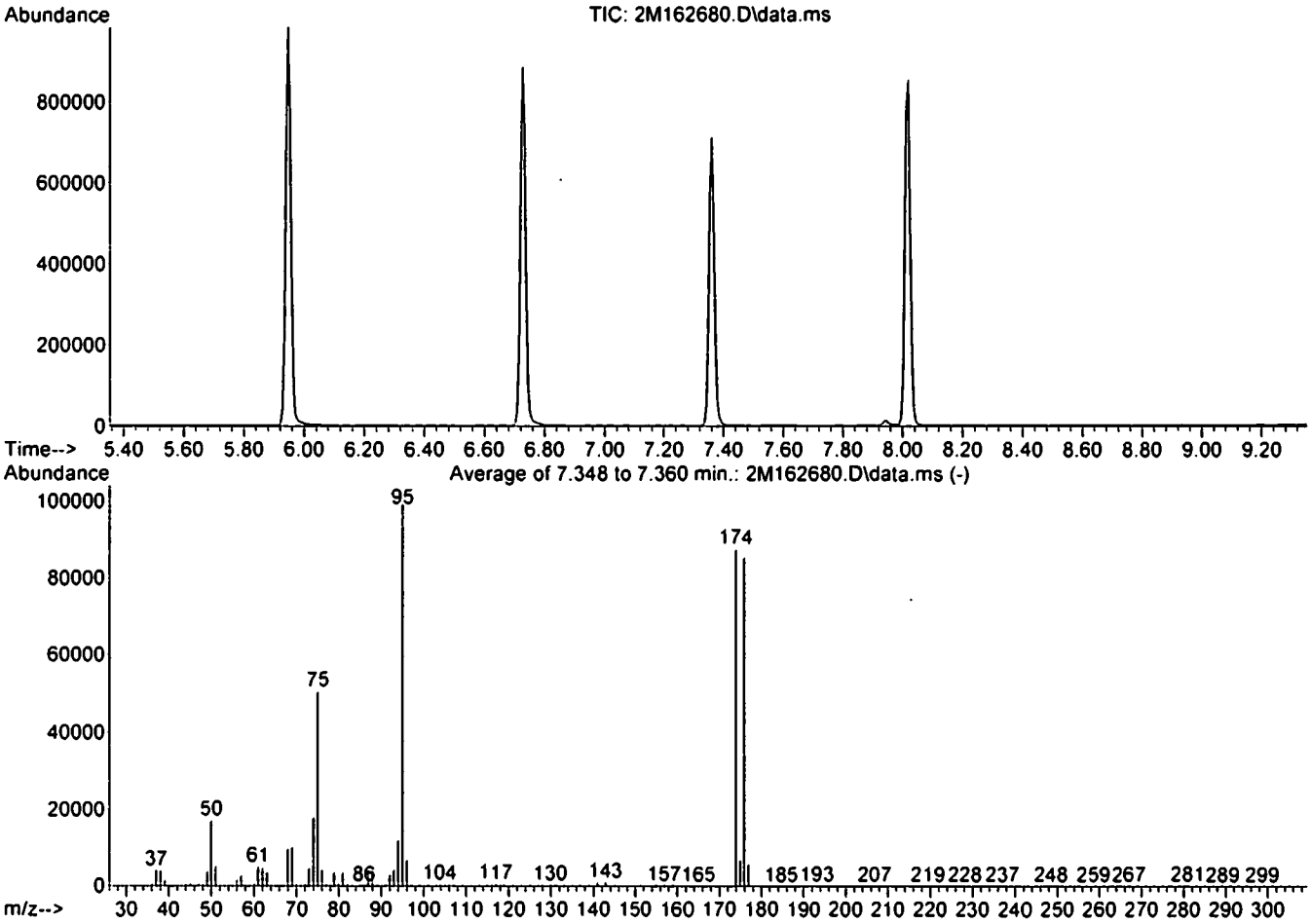
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.3	17161	PASS
75	95	30	60	50.9	50520	PASS
95	95	100	100	100.0	99320	PASS
96	95	5	9	6.9	6820	PASS
173	174	0.00	2	0.1	73	PASS
174	95	50	100	88.3	87719	PASS
175	174	5	9	7.7	6786	PASS
176	174	95	101	97.6	85632	PASS
177	176	5	9	6.7	5724	PASS

Data File	Sample Number	Analysis Date:
2M162682.D	CAL @ 0.5PPB	01/18/22 14:34
2M162683.D	CAL @ 1PPB	01/18/22 14:54
2M162684.D	CAL @ 5PPB	01/18/22 15:14
2M162685.D	CAL @ 10PPB	01/18/22 15:34
2M162686.D	CAL @ 20PPB	01/18/22 15:54
2M162688.D	CAL @ 50PPB	01/18/22 16:34
2M162690.D	CAL @ 100PPB	01/18/22 17:14
2M162692.D	CAL @ 250PPB	01/18/22 17:53
2M162694.D	CAL @ 500PPB	01/18/22 18:33
2M162695.D	BLK	01/18/22 18:53
2M162699.D	ICV	01/18/22 20:12
2M162700.D	STD	01/18/22 20:32

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-18-22\
Data File : 2M162680.D
Acq On : 18 Jan 2022 13:55
Operator : JM
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 15 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_2\MethodQt\2M_A0103.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Jan 04 16:15:48 2022



Spectrum Information: Average of 7.348 to 7.360 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	17161	PASS
75	95	30	60	50.9	50520	PASS
95	95	100	100	100.0	99320	PASS
96	95	5	9	6.9	6820	PASS
173	174	0.00	2	0.1	73	PASS
174	95	50	100	88.3	87719	PASS
175	174	5	9	7.7	6786	PASS
176	174	95	101	97.6	85632	PASS
177	176	5	9	6.7	5724	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M162402.D
Analysis Date: 01/12/22 22:40
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.336 to 7.385 min

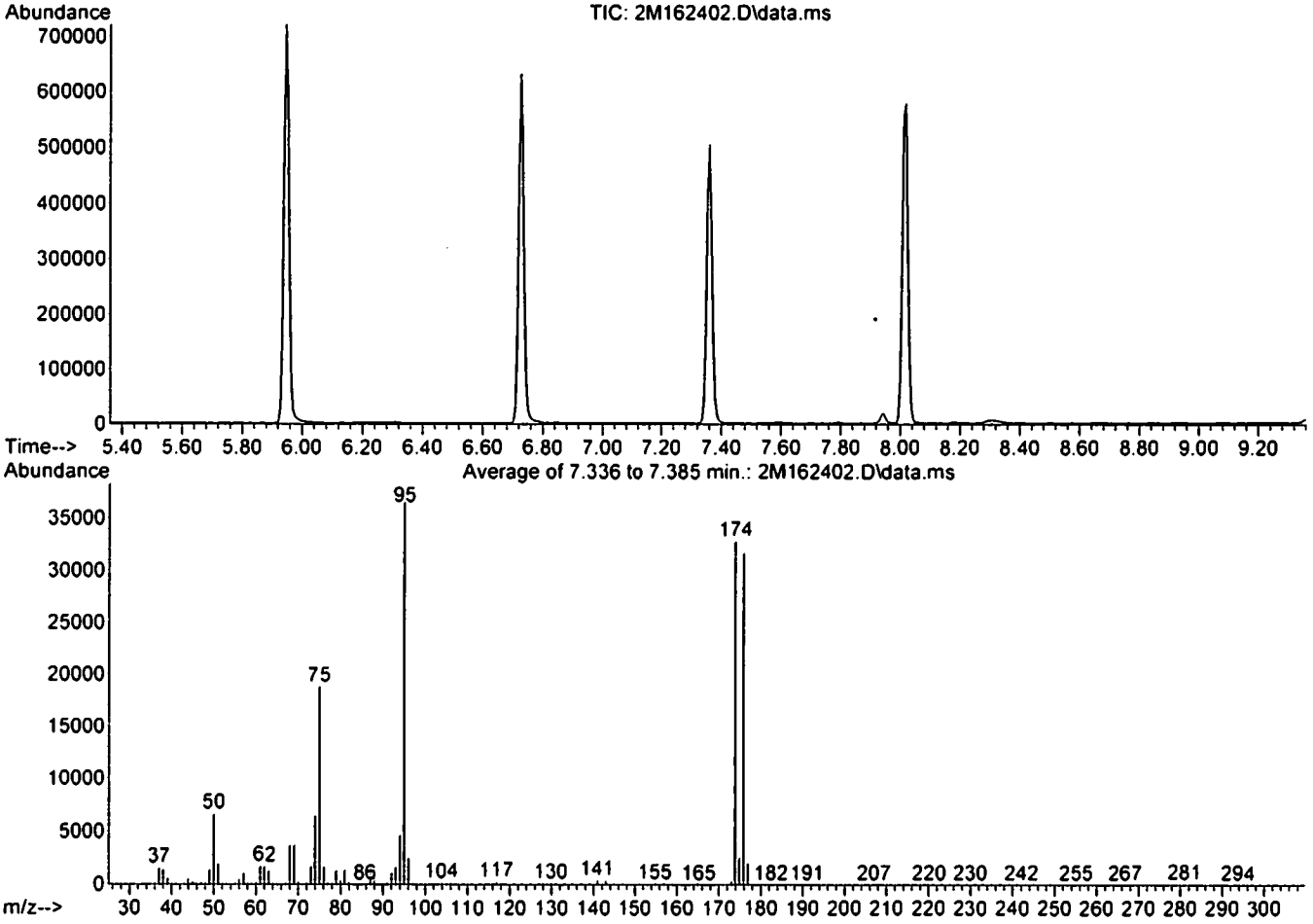
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.2	6651	PASS
75	95	30	60	51.6	18871	PASS
95	95	100	100	100.0	36551	PASS
96	95	5	9	6.9	2528	PASS
173	174	0.00	2	1.2	395	PASS
174	95	50	100	89.9	32863	PASS
175	174	5	9	7.8	2560	PASS
176	174	95	101	96.7	31769	PASS
177	176	5	9	6.4	2048	PASS

Data File	Sample Number	Analysis Date:
2M162403.D	CAL @ 20 PPB	01/12/22 23:00
2M162404.D	20 PPB	01/12/22 23:19
2M162406.D	20 PPB	01/12/22 23:53
2M162410.D	DAILY BLANK	01/13/22 01:12
2M162411.D	AD28256-010	01/13/22 01:32
2M162412.D	AD28256-003	01/13/22 01:52
2M162413.D	AD28256-002	01/13/22 02:12
2M162414.D	STD	01/13/22 02:32
2M162415.D	STD	01/13/22 02:52
2M162416.D	AD28256-008(MS:	01/13/22 03:11
2M162417.D	AD28256-009(MSD	01/13/22 03:31
2M162418.D	BLK	01/13/22 03:51
2M162419.D	BLK	01/13/22 04:11
2M162420.D	AD28256-001	01/13/22 04:30
2M162421.D	AD28256-004	01/13/22 04:50
2M162422.D	AD28256-005	01/13/22 05:10
2M162423.D	AD28256-006	01/13/22 05:30
2M162424.D	AD28256-007	01/13/22 05:50
2M162425.D	BLK	01/13/22 06:10
2M162426.D	AD28258-001	01/13/22 06:30
2M162427.D	AD28258-002	01/13/22 06:50
2M162428.D	AD28258-003	01/13/22 07:10
2M162429.D	AD28258-004	01/13/22 07:30
2M162430.D	BLK	01/13/22 07:50
2M162431.D	AD28258-005	01/13/22 08:10
2M162432.D	AD28258-006	01/13/22 08:29
2M162433.D	AD28258-007	01/13/22 08:49
2M162434.D	AD28258-008	01/13/22 09:09
2M162435.D	MBS99290	01/13/22 09:29

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-1222\
Data File : 2M162402.D
Acq On : 12 Jan 2022 22:40
Operator : JM
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_A1229.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Dec 30 13:12:46 2021



Spectrum Information: Average of 7.336 to 7.385 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	6651	PASS
75	95	30	60	51.6	18871	PASS
95	95	100	100	100.0	36551	PASS
96	95	5	9	6.9	2528	PASS
173	174	0.00	2	1.2	395	PASS
174	95	50	100	89.9	32863	PASS
175	174	5	9	7.8	2560	PASS
176	174	95	101	96.7	31769	PASS
177	176	5	9	6.4	2048	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M162439.D
Analysis Date: 01/13/22 10:55
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.336 to 7.385 min

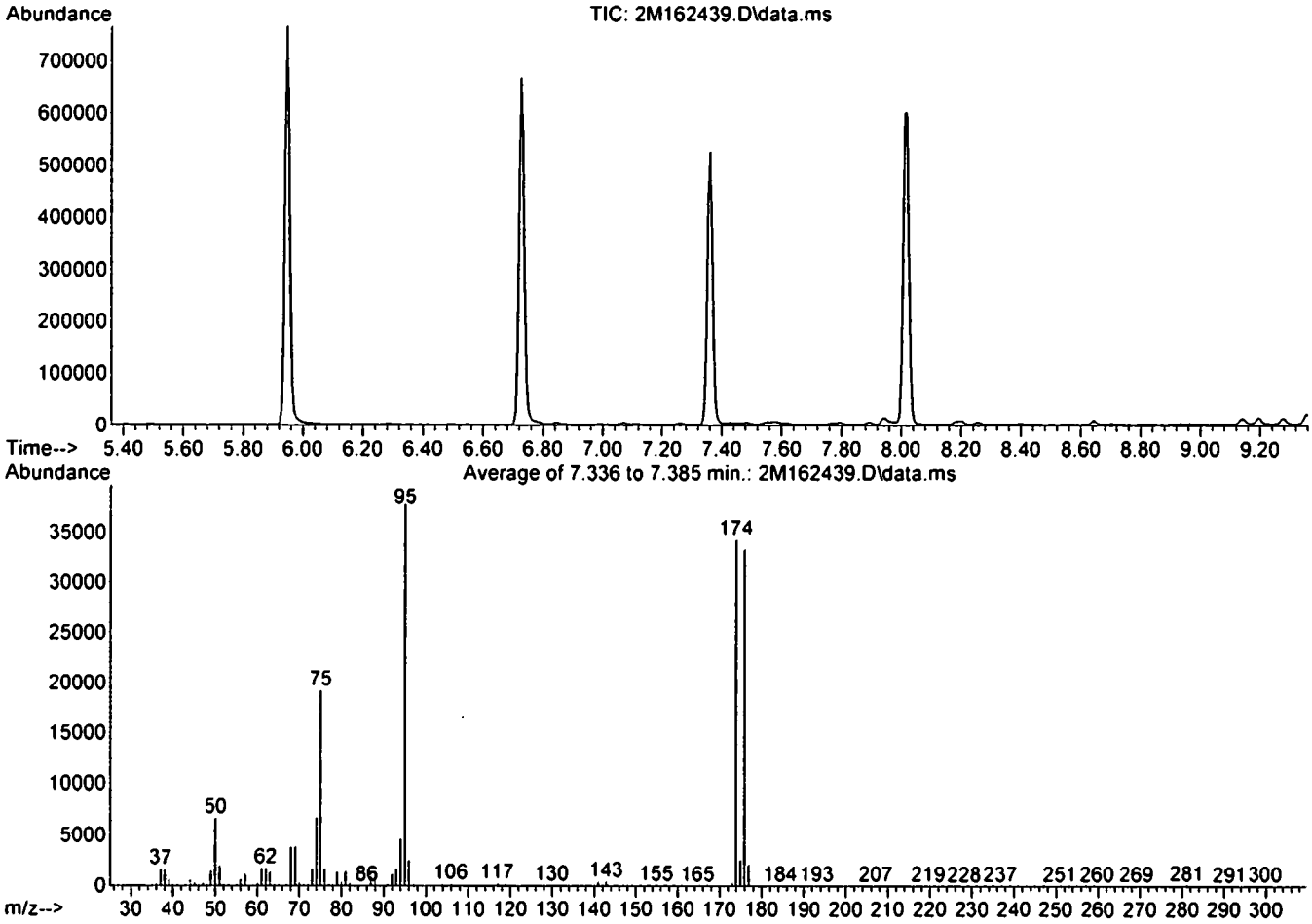
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.7	6683	PASS
75	95	30	60	51.0	19291	PASS
95	95	100	100	100.0	37817	PASS
96	95	5	9	6.7	2543	PASS
173	174	0.00	2	1.1	375	PASS
174	95	50	100	90.7	34305	PASS
175	174	5	9	7.4	2549	PASS
176	174	95	101	97.4	33419	PASS
177	176	5	9	6.3	2121	PASS

Data File	Sample Number	Analysis Date:
2M162440.D	CAL @ 20 PPB	01/13/22 11:15
2M162441.D	20 PPB	01/13/22 11:35
2M162442.D	BLK	01/13/22 11:54
2M162443.D	BLK	01/13/22 12:14
2M162444.D	DAILY BLANK	01/13/22 12:34
2M162445.D	DAILY BLANK	01/13/22 12:54
2M162446.D	AD28247-010	01/13/22 13:14
2M162447.D	AD28248-001	01/13/22 13:34
2M162448.D	MBS99291	01/13/22 13:54
2M162449.D	MBS99292	01/13/22 14:14
2M162450.D	AD28250-005	01/13/22 14:34
2M162451.D	AD28250-002(5X)	01/13/22 14:53
2M162452.D	AD28241-011(MS)	01/13/22 15:13
2M162453.D	AD28241-011(MSD	01/13/22 15:33
2M162454.D	AD28241-011	01/13/22 15:52
2M162455.D	BLK	01/13/22 16:12
2M162456.D	AD28241-004	01/13/22 16:32
2M162457.D	AD28241-012	01/13/22 16:52
2M162458.D	AD28261-002(80uL	01/13/22 17:12
2M162459.D	AD28247-010(MS)	01/13/22 17:32
2M162460.D	AD28247-010(MSD	01/13/22 17:51
2M162461.D	BLK	01/13/22 18:11
2M162462.D	AD28281-008	01/13/22 18:31
2M162463.D	AD28281-023	01/13/22 18:51
2M162464.D	AD28258-016	01/13/22 19:11
2M162465.D	AD28247-001	01/13/22 19:30
2M162466.D	28302-004	01/13/22 19:50
2M162467.D	28302-002	01/13/22 20:10
2M162468.D	AD28302-001	01/13/22 20:30
2M162469.D	AD28258-012	01/13/22 20:50
2M162470.D	AD28258-013	01/13/22 21:09
2M162471.D	AD28258-014	01/13/22 21:29
2M162472.D	AD28258-015	01/13/22 21:49
2M162473.D	AD28281-012	01/13/22 22:09
2M162474.D	AD28281-013	01/13/22 22:29
2M162475.D	AD28281-014	01/13/22 22:48
2M162476.D	AD28281-015	01/13/22 23:08
2M162477.D	BLK	01/13/22 23:28
2M162478.D	AD28263-001	01/13/22 23:48

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-13-22\
Data File : 2M162439.D
Acq On : 13 Jan 2022 10:55
Operator : JM
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_11\MethodQt\11M_S0112.M
Title : @GCMS_11,ug,624,8260
Last Update : Wed Jan 12 17:31:38 2022



Spectrum Information: Average of 7.336 to 7.385 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	6683	PASS
75	95	30	60	51.0	19291	PASS
95	95	100	100	100.0	37817	PASS
96	95	5	9	6.7	2543	PASS
173	174	0.00	2	1.1	375	PASS
174	95	50	100	90.7	34305	PASS
175	174	5	9	7.4	2549	PASS
176	174	95	101	97.4	33419	PASS
177	176	5	9	6.3	2121	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 2M162740.D
Instrument: GCMS 2 **Analysis Date:** 01/19/22 09:47
Method: EPA 8260D
Tune Scan/Time Range: Average of 7.354 to 7.360 min

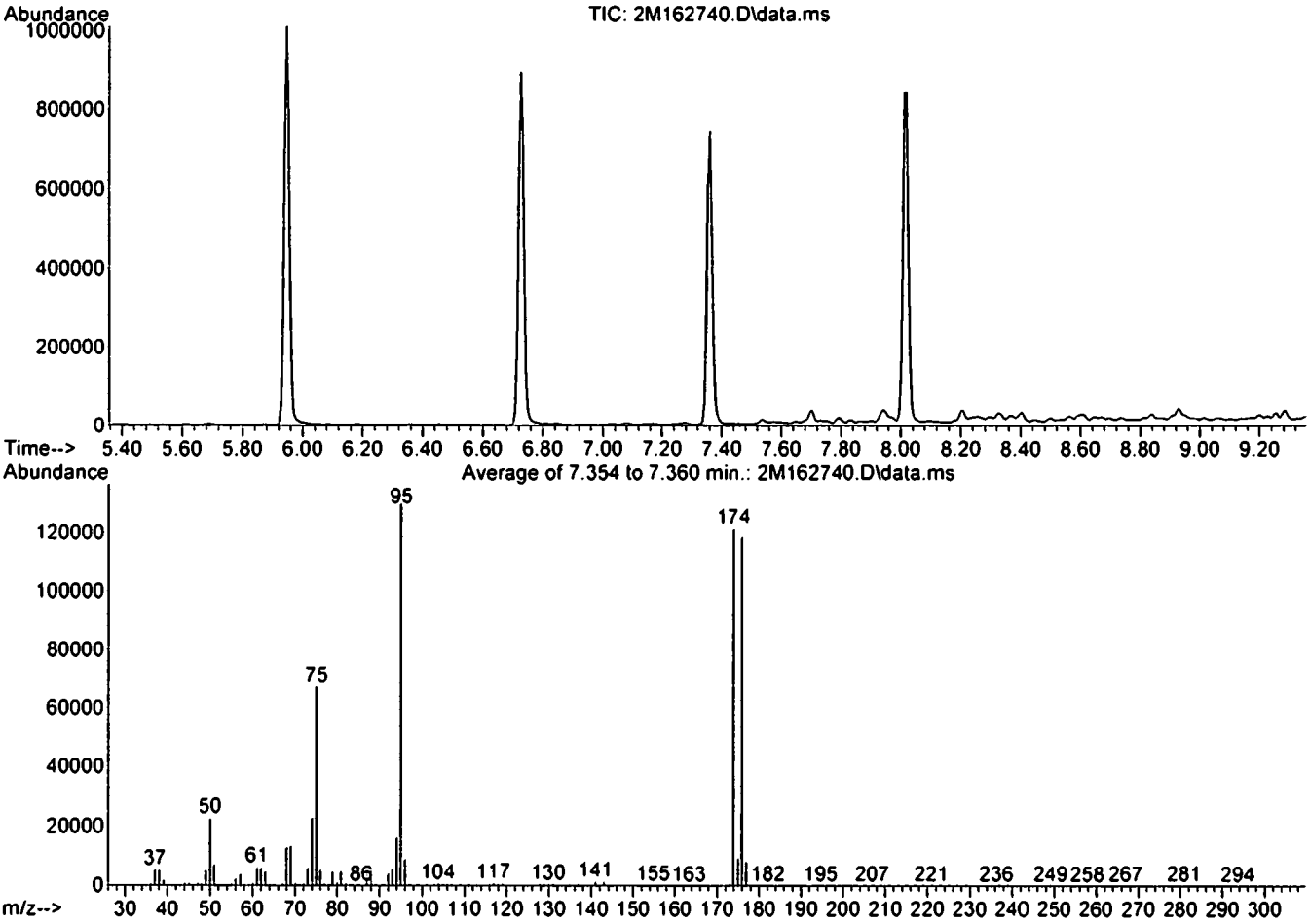
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.4	22660	PASS
75	95	30	60	51.9	67408	PASS
95	95	100	100	100.0	129876	PASS
96	95	5	9	6.9	8942	PASS
173	174	0.00	2	0.5	646	PASS
174	95	50	100	93.5	121372	PASS
175	174	5	9	7.7	9329	PASS
176	174	95	101	97.6	118460	PASS
177	176	5	9	6.9	8133	PASS

Data File	Sample Number	Analysis Date:
2M162741.D	CAL @ 20PPB	01/19/22 10:07
2M162743.D	HCL	01/19/22 10:46
2M162744.D	DI	01/19/22 11:06
2M162745.D	DAILY BLANK	01/19/22 11:26
2M162746.D	DAILY BLANK	01/19/22 11:46
2M162747.D	AD28258-009	01/19/22 12:06
2M162748.D	AD28258-010	01/19/22 12:26
2M162749.D	28290-008	01/19/22 12:46
2M162750.D	AD28258-011	01/19/22 13:06
2M162751.D	MBS99325	01/19/22 13:26
2M162752.D	MBS99326	01/19/22 13:45
2M162753.D	BLK	01/19/22 14:05
2M162754.D	AD28301-001(5X)	01/19/22 14:25
2M162755.D	AD28294-010	01/19/22 14:45
2M162756.D	AD28294-002(10X)	01/19/22 15:05
2M162757.D	AD28294-012(5X)	01/19/22 15:25
2M162758.D	AD28294-001(10X)	01/19/22 15:45
2M162759.D	AD28386-001	01/19/22 16:05
2M162760.D	AD28294-012(5X)	01/19/22 16:25
2M162761.D	AD28294-002(50X)	01/19/22 16:44
2M162762.D	AD28320-008	01/19/22 17:04
2M162763.D	AD28258-010(MS)	01/19/22 17:24
2M162764.D	AD28258-010(MSD	01/19/22 17:43
2M162765.D	BLK	01/19/22 18:03
2M162766.D	AD28320-002	01/19/22 18:23
2M162767.D	AD28320-003(400u	01/19/22 18:43
2M162768.D	AD28320-004(80uL	01/19/22 19:03
2M162769.D	AD28320-003(80uL	01/19/22 19:23
2M162770.D	AD28320-006(400u	01/19/22 19:43
2M162771.D	AD28386-001(MS)	01/19/22 20:02
2M162772.D	AD28386-001(MSD	01/19/22 20:22
2M162773.D	AD28330-005	01/19/22 20:44
2M162774.D	AD28330-004	01/19/22 21:04
2M162775.D	AD28320-004(400u	01/19/22 21:24
2M162776.D	AD28391-001	01/19/22 21:43

Data Path : G:\GcMsData\2022\GCMS_2\Data\01-19-22\
Data File : 2M162740.D
Acq On : 19 Jan 2022 09:47
Operator : JM
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_2\MethodQt\2M_A0118.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Jan 18 19:21:59 2022



Spectrum Information: Average of 7.354 to 7.360 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	22660	PASS
75	95	30	60	51.9	67408	PASS
95	95	100	100	100.0	129876	PASS
96	95	5	9	6.9	8942	PASS
173	174	0.00	2	0.5	646	PASS
174	95	50	100	93.5	121372	PASS
175	174	5	9	7.7	9329	PASS
176	174	95	101	97.6	118460	PASS
177	176	5	9	6.9	8133	PASS

2011202 0161

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M161965.D	CAL @ 20 PPB	01/03/22 23:12	2	2M161963.D	CAL @ 5 PPB	01/03/22 22:33
3	2M161964.D	CAL @ 10 PPB	01/03/22 22:53	4	2M161967.D	CAL @ 50 PPB	01/03/22 23:52
5	2M161969.D	CAL @ 100 PPB	01/04/22 00:32	6	2M161971.D	CAL @ 250 PPB	01/04/22 01:12
7	2M161973.D	CAL @ 500 PPB	01/04/22 01:51	8	2M161962.D	CAL @ 1 PPB	01/03/22 22:13
9	2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2207	0.2112	0.2473	0.2692	0.2613	0.2780	0.3001	0.2213	----	0.251	1.70	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.1260	0.1236	0.1390	0.1530	0.1456	0.1547	0.1656	0.1412	----	0.144	1.68	0.999	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1297	0.1380	0.1551	0.1607	0.1424	0.1499	0.1687	0.1853	----	0.154	1.86	0.997	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.0978	0.1211	0.1263	0.1158	0.1182	0.1630	0.1492	0.1570	----	0.131	2.25	0.996	0.996	17	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Chloride	1	0	Avg	0.1779	0.1826	0.2102	0.2211	0.2029	0.2165	0.2327	0.1996	----	0.205	1.95	0.999	1.00	9.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1315	0.1356	0.1568	0.1621	0.1480	0.1543	0.1721	0.1668	----	0.153	2.34	0.997	1.00	9.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.3563	0.3648	0.4238	0.4387	0.4078	0.4370	0.4750	0.3694	----	0.409	2.56	0.998	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1536	0.1494	0.1830	0.1958	0.1794	0.1836	0.2002	0.1744	----	0.177	2.80	0.998	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.2977	0.3123	0.3571	0.3740	0.3403	0.3565	0.3863	0.3458	----	0.346	2.84	0.998	1.00	8.6	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.2-Trichloro-1.2.2-tr	1	0	Avg	0.1480	0.1462	0.1762	0.1874	0.1765	0.1905	0.2074	0.1571	----	0.174	3.00	0.998	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.1802	0.1836	0.2172	0.2264	0.2083	0.2143	0.2338	0.2053	----	0.209	3.41	0.998	1.00	9.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0291	0.0285	0.0347	0.0360	0.0345	0.0363	0.0408	0.0380	----	0.0348	2.92	0.997	1.00	12		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0834	0.0813	0.0977	0.1020	0.0981	0.0998	0.1109	0.0985	----	0.0965	3.62	0.998	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.1600	0.1221	0.1558	0.2370	0.2252	0.2540	0.2618	0.1244	----	0.193	3.15	0.994	0.997	30		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0648	0.0609	0.0744	0.0759	0.0759	0.0735	0.0781	0.0787	----	0.0728	3.04	0.999	1.00	8.8	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4323	0.4418	0.5101	0.5428	0.5000	0.5313	0.5762	0.5140	----	0.506	3.21	0.998	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0261	0.0252	0.0312	0.0314	0.0303	0.0308	0.0342	0.0311	----	0.0301	3.48	0.998	1.00	9.8		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1431	0.1507	0.1762	0.1808	0.1709	0.1804	0.1910	0.1981	----	0.174	3.87	0.999	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.5233	0.5286	0.6093	0.6597	0.6007	0.6245	0.6816	0.5421	----	0.596	4.03	0.998	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1-Dichloroethene	1	0	Avg	0.2509	0.2582	0.2995	0.3100	0.2825	0.2985	0.3274	0.2760	----	0.288	3.01	0.998	1.00	9.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.1665	0.1614	0.2009	0.2040	0.1931	0.1967	0.2150	0.1920	----	0.191	3.32	0.998	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.5592	0.5581	0.6539	0.7086	0.6597	0.6768	0.7378	0.5541	0.6111	0.636	3.64	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1.1-Dichloroethane	1	0	Avg	0.3098	0.3167	0.3650	0.3918	0.3576	0.3731	0.4054	0.3287	----	0.356	4.00	0.998	1.00	9.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1.2-Dichloroethe	1	0	Avg	0.1875	0.1968	0.2185	0.2352	0.2152	0.2295	0.2575	0.2028	----	0.218	3.65	0.997	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5756	0.5756	0.6720	0.7226	0.6651	0.6801	0.7343	0.5785	----	0.651	4.29	0.999	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1.2-Dichloroethene	1	0	Avg	0.3132	0.3214	0.3668	0.3915	0.3572	0.3727	0.4130	0.3377	----	0.359	4.41	0.998	1.00	9.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1450	0.1457	0.1629	0.1725	0.1550	0.1537	0.1615	0.1458	----	0.155	4.57	0.999	1.00	6.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2.2-Dichloropropane	1	0	Avg	0.2896	0.2975	0.3402	0.3576	0.3242	0.3405	0.3702	0.2977	----	0.327	4.42	0.998	1.00	9.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2212	0.1985	0.2641	0.2602	0.2471	0.2442	0.2746	0.2625	----	0.247	4.43	0.997	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.4-Dioxane	1	0	Avg	0.0034	0.0031	0.0038	0.0039	0.0037	0.0038	0.0043	0.0034	----	0.00372	5.49	0.997	1.00	10		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1.1-Dichloropropene	1	0	Avg	0.2531	0.2587	0.3051	0.3205	0.2906	0.3091	0.3382	0.2758	----	0.294	4.82	0.998	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.3429	0.3474	0.4082	0.4314	0.3936	0.4072	0.4438	0.3866	----	0.395	4.60	0.998	1.00	9.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2828	0.2845	0.2824	0.2891	0.2957	0.2970	0.2936	0.2808	0.2842	0.288	4.70	-1	-1	2.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2113	0.2241	0.2575	0.2646	0.2485	0.2660	0.2840	0.2475	----	0.250	4.77	0.999	1.00	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dichloroethane-d4	1	0	Avg	0.1488	0.1473	0.1457	0.1437	0.1490	0.1495	0.1463	0.1425	0.1464	0.147	4.91	-1	-1	1.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1.2-Dichloroethane	1	0	Avg	0.2704	0.2749	0.3195	0.3359	0.3091	0.3202	0.3677	0.2973	0.3688	0.318	4.95	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.0841	0.1035	0.1001	0.1117	0.1074	0.1133	0.1208	0.1082	----	0.106	4.41	0.999	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.1-Trichloroethane	1	0	Avg	0.3219	0.3307	0.3833	0.4025	0.3685	0.3876	0.4247	0.3241	----	0.368	4.73	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.2509	0.2324	0.2843	0.3214	0.3008	0.3338	0.3774	0.2189	----	0.290	4.83	0.996	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.5887	0.5825	0.7050	0.7431	0.6670	0.7146	0.7909	0.6048	----	0.675	4.02	0.998	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.2597	0.2580	0.3072	0.3339	0.3101	0.3232	0.3526	0.2576	----	0.300	5.57	0.998	1.00	12	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011202 0162

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M161965.D	CAL @ 20 PPB	01/03/22 23:12	2	2M161963.D	CAL @ 5 PPB	01/03/22 22:33
3	2M161964.D	CAL @ 10 PPB	01/03/22 22:53	4	2M161967.D	CAL @ 50 PPB	01/03/22 23:52
5	2M161969.D	CAL @ 100 PPB	01/04/22 00:32	6	2M161971.D	CAL @ 250 PPB	01/04/22 01:12
7	2M161973.D	CAL @ 500 PPB	01/04/22 01:51	8	2M161962.D	CAL @ 1 PPB	01/03/22 22:13
9	2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2102	0.2172	0.2590	0.2678	0.2560	0.2742	0.2976	0.2345	----	0.252	5.42	0.998	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1486	0.1455	0.1767	0.1850	0.1752	0.1854	0.2105	0.1542	----	0.173	5.50	0.997	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.1762	0.1809	0.2116	0.2245	0.2045	0.2108	0.2340	0.1789	----	0.203	5.43	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2155	0.2266	0.2574	0.2739	0.2498	0.2622	0.2947	0.2252	----	0.251	5.30	0.997	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.7155	0.7169	0.8507	0.8974	0.8157	0.8516	0.9429	0.7426	0.8584	0.821	4.95	0.998	1.00	9.8	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5661	0.5685	0.6634	0.7163	0.6595	0.6608	0.7122	0.5876	----	0.642	4.99	0.999	1.00	9.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.4850	0.4667	0.5710	0.6032	0.5567	0.5639	0.6188	0.4798	----	0.543	4.95	0.998	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.2138	0.2096	0.2784	0.2896	0.2425	0.2619	0.2620	0.2465	----	0.251	5.45	1.00	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.2632	0.2409	0.3018	0.3384	0.3148	0.3255	0.3485	0.2340	----	0.296	6.42	0.999	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.0047	0.0057	0.0061	0.0070	0.0068	0.0066	0.0065	0.0056	----	0.00618	5.71	1.00	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.3926	0.3886	0.4585	0.4963	0.4453	0.4524	0.4823	0.3844	----	0.438	5.81	0.999	1.00	10	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3629	0.3414	0.4270	0.4566	0.4177	0.4256	0.4525	0.3646	----	0.406	6.09	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2360	0.2189	0.2727	0.2869	0.2648	0.2670	0.2886	0.2237	----	0.257	6.11	0.999	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2286	0.2330	0.2720	0.2836	0.2574	0.2600	0.2815	0.2372	----	0.257	6.20	0.999	1.00	8.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2590	0.2530	0.3095	0.3168	0.2907	0.2937	0.3120	0.2772	----	0.289	6.49	0.999	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.3824	0.3820	0.4589	0.4725	0.4295	0.4366	0.4724	0.4202	----	0.432	6.29	0.999	1.00	8.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2713	0.2616	0.3163	0.3247	0.3010	0.3038	0.3291	0.2755	----	0.298	5.87	0.999	1.00	8.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1995	0.1892	0.2299	0.2367	0.2211	0.2213	0.2411	0.2183	----	0.220	6.31	0.998	1.00	8.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2106	0.2029	0.2414	0.2613	0.2340	0.2545	0.2902	0.2138	----	0.239	6.29	0.996	1.00	12	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2795	1.2773	1.2658	1.2585	1.2458	1.2380	1.2092	1.2929	1.2654	1.26	5.95	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6038	0.6231	0.7173	0.7377	0.6580	0.6808	0.7350	0.6710	----	0.678	5.99	0.999	1.00	7.3	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2396	0.2292	0.2896	0.3050	0.2810	0.3005	0.3399	0.2353	----	0.278	6.78	0.997	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.6721	0.6783	0.8026	0.8348	0.7479	0.7714	0.8243	0.7044	----	0.755	6.75	0.999	1.00	8.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.0119	0.9833	1.2130	1.3177	1.1897	1.2141	1.2699	1.1162	----	1.16	6.99	0.999	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.9075	0.8752	1.1033	1.1815	1.0709	1.1001	1.1673	0.9607	----	1.05	7.11	0.999	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.4040	0.3807	0.4728	0.5546	0.5145	0.5376	0.5775	0.3821	----	0.478	7.20	0.999	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6167	0.6215	0.7920	0.8040	0.7101	0.7593	0.8375	0.7273	----	0.734	6.79	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7043	0.6771	0.8568	0.8802	0.7629	0.7830	0.8237	0.7285	----	0.777	7.42	0.999	1.00	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8689	0.8775	0.8731	0.8890	0.8732	0.8515	0.8209	0.8967	0.8811	0.870	7.37	-1	-1	2.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.5222	1.5472	1.8313	1.9542	1.7132	1.8071	1.8658	1.5740	----	1.73	7.07	1.00	1.00	9.4	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.8879	0.9251	1.0806	1.1282	0.9824	1.0216	1.0568	0.9964	1.1012	1.02	6.85	1.00	1.00	7.9	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8830	0.8955	1.0656	1.1252	0.9909	1.0556	1.1213	0.9841	----	1.02	7.07	0.999	1.00	9.2	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2606	0.2457	0.3029	0.3335	0.3117	0.3273	0.3573	0.2787	----	0.302	7.45	0.998	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	0.9105	0.9486	1.1196	1.1744	1.0339	1.1005	1.1631	1.0389	----	1.06	7.99	0.999	1.00	9.1	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	0.9541	0.9871	1.1801	1.1965	1.0635	1.1227	1.1899	1.0845	----	1.10	8.04	0.999	1.00	8.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	0.8813	0.9161	1.0767	1.1211	0.9996	1.0465	1.1141	1.0144	----	1.02	8.26	0.999	1.00	8.6	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.0651	2.1412	2.5179	2.6058	2.2558	2.3145	2.3341	2.2803	----	2.31	7.26	1.00	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0317	0.0340	0.0372	0.0327	0.0363	0.0348	0.0309	0.0343	----	0.0340	7.34	0.996	1.00	6.4		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5114	0.5097	0.6585	0.6377	0.5852	0.6208	0.6493	0.6570	----	0.604	7.43	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.8766	0.8691	1.0553	1.1238	1.0285	1.0609	1.1414	0.9367	----	1.01	7.46	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.2098	1.2450	1.4457	1.5440	1.3225	1.3926	1.4305	1.2856	----	1.36	7.56	1.00	1.00	8.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011202 0163

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M161965.D	CAL @ 20 PPB	01/03/22 23:12	2	2M161963.D	CAL @ 5 PPB	01/03/22 22:33
3	2M161964.D	CAL @ 10 PPB	01/03/22 22:53	4	2M161967.D	CAL @ 50 PPB	01/03/22 23:52
5	2M161969.D	CAL @ 100 PPB	01/04/22 00:32	6	2M161971.D	CAL @ 250 PPB	01/04/22 01:12
7	2M161973.D	CAL @ 500 PPB	01/04/22 01:51	8	2M161962.D	CAL @ 1 PPB	01/03/22 22:13
9	2M161961.D	CAL @ 0.5 PPB	01/03/22 21:53				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.2009	2.2818	2.6693	2.8124	2.4084	2.5147	2.4824	2.4069	----	2.47	7.55	1.00	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.1919	1.2609	1.4822	1.5203	1.3899	1.4321	1.4834	1.2879	----	1.38	7.62	1.00	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.2503	2.3406	2.7749	2.8401	2.4512	2.4917	2.4865	2.4805	----	2.51	7.49	1.00	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.2896	1.3123	1.6134	1.6669	1.4641	1.5079	1.5903	1.4033	----	1.48	7.46	0.999	1.00	9.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.4534	1.5287	1.7968	1.7930	1.6036	1.6987	1.8627	1.6580	----	1.67	7.58	0.998	1.00	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.6502	0.6743	0.7976	0.8490	0.7544	0.8031	0.8462	0.6003	----	0.747	7.59	0.999	1.00	13	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.4706	1.4974	1.8085	1.8620	1.6349	1.7271	1.8210	1.6569	----	1.68	7.78	0.999	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.5880	1.6417	1.9315	1.9830	1.7457	1.8218	1.8910	1.8729	----	1.81	7.80	0.999	1.00	7.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.7546	1.8154	2.1623	2.1992	1.9261	2.0136	2.0894	1.9271	----	1.99	7.90	0.999	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.5323	1.6108	1.8648	1.8874	1.6792	1.7764	1.8477	2.0020	----	1.78	7.97	0.999	1.00	8.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5261	1.5438	1.8816	1.9032	1.6874	1.7951	1.8845	1.7346	----	1.74	8.21	0.999	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8850	0.9119	1.0975	1.1303	1.0054	1.0880	1.1653	1.0311	----	1.04	8.19	0.999	1.00	9.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.2887	1.3189	1.5868	1.6509	1.4892	1.5966	1.6864	1.5504	----	1.52	8.65	0.999	1.00	9.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1678	0.1538	0.1977	0.2203	0.2055	0.2202	0.2407	0.1705	----	0.197	8.71	0.998	1.00	15	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0912	0.0808	0.1066	0.1111	0.1075	0.1182	0.1452	0.0924	0.1022	0.106	9.15	0.991	1.00	18		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.1877	0.1946	0.2366	0.2382	0.2308	0.2488	0.2727	0.2628	----	0.234	9.28	0.998	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.4461	0.4497	0.5480	0.5595	0.5300	0.5685	0.6019	0.5228	----	0.528	9.20	0.999	1.00	10	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.3951	0.3847	0.4901	0.4859	0.4602	0.4853	0.5158	0.4446	----	0.458	9.50	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.5270	1.4431	1.8493	1.8885	1.7765	1.8368	1.9101	1.7510	----	1.75	9.36	1.00	1.00	9.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 9.9
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011202 0164

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M162686.D	CAL @ 20PPB	01/18/22 15:54	2	2M162684.D	CAL @ 5PPB	01/18/22 15:14
3	2M162685.D	CAL @ 10PPB	01/18/22 15:34	4	2M162688.D	CAL @ 50PPB	01/18/22 16:34
5	2M162690.D	CAL @ 100PPB	01/18/22 17:14	6	2M162692.D	CAL @ 250PPB	01/18/22 17:53
7	2M162694.D	CAL @ 500PPB	01/18/22 18:33	8	2M162683.D	CAL @ 1PPB	01/18/22 14:54
9	2M162682.D	CAL @ 0.5PPB	01/18/22 14:34				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2375	0.2063	0.2429	0.2586	0.2705	0.2942	0.2894	0.2322	----	0.254	1.70	1.00	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.2680	0.2351	0.2554	0.2777	0.2843	0.2970	0.2953	0.2524	----	0.271	1.68	1.00	1.00	8.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1776	0.1605	0.1814	0.1845	0.1894	0.1962	0.2012	0.1793	----	0.184	1.86	1.00	1.00	6.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1160	0.1243	0.1341	0.1284	0.1548	0.2022	0.1430	0.1817	----	0.148	2.25	0.966	0.989	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Chloride	1	0	Avg	0.2476	0.2164	0.2469	0.2559	0.2683	0.2775	0.2724	0.2453	----	0.254	1.95	1.00	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1540	0.1495	0.1691	0.1720	0.1749	0.1811	0.1829	0.1690	----	0.169	2.34	1.00	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.4571	0.4254	0.4921	0.4997	0.5070	0.5308	0.5384	0.4570	----	0.488	2.56	1.00	1.00	8.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1624	0.1455	0.1691	0.1731	0.1807	0.1837	0.1843	0.1703	----	0.171	2.80	1.00	1.00	7.5	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.2906	0.2544	0.2947	0.3026	0.3137	0.3224	0.3245	0.2969	----	0.300	2.84	1.00	1.00	7.5	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.2042	0.1806	0.2069	0.2116	0.2168	0.2267	0.2296	0.2045	----	0.210	3.00	1.00	1.00	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2256	0.2041	0.2292	0.2349	0.2416	0.2438	0.2395	0.2374	----	0.232	3.41	1.00	1.00	5.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0302	0.0253	0.0302	0.0330	0.0347	0.0365	0.0375	0.0208	----	0.0311	2.92	1.00	1.00	18		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0858	0.0788	0.0877	0.0931	0.0957	0.0987	0.1007	0.0819	----	0.0903	3.62	1.00	1.00	8.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.2544	0.1509	0.2027	0.2958	0.3197	0.3349	0.3160	0.1604	----	0.254	3.15	0.997	0.997	29		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0639	0.0550	0.0645	0.0671	0.0669	0.0699	0.0697	0.0676	----	0.0656	3.04	1.00	1.00	7.3	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.5488	0.4819	0.5446	0.5855	0.6073	0.6405	0.6345	0.5615	----	0.576	3.21	1.00	1.00	9.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0243	0.0209	0.0251	0.0252	0.0259	0.0283	0.0293	0.0257	----	0.0256	3.48	0.999	1.00	9.9		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1670	0.1509	0.1715	0.1752	0.1779	0.1800	0.1878	0.1603	----	0.171	3.87	1.00	1.00	6.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.5353	0.4723	0.5435	0.5625	0.5813	0.6047	0.6094	0.5045	----	0.552	4.03	1.00	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.2856	0.2545	0.2880	0.2934	0.3038	0.3147	0.3190	0.2833	----	0.293	3.01	1.00	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.1596	0.1398	0.1650	0.1644	0.1677	0.1735	0.1749	0.1683	----	0.164	3.32	1.00	1.00	6.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6339	0.5487	0.6500	0.6799	0.7047	0.7202	0.7312	0.5990	0.6422	0.657	3.64	1.00	1.00	9.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3585	0.3167	0.3722	0.3774	0.3899	0.4012	0.4015	0.3529	----	0.371	4.00	1.00	1.00	7.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2357	0.2067	0.2365	0.2451	0.2554	0.2643	0.2685	0.2395	----	0.244	3.65	1.00	1.00	8.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5562	0.4720	0.5683	0.5931	0.6132	0.6326	0.6342	0.5173	----	0.573	4.29	1.00	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3557	0.3186	0.3617	0.3725	0.3826	0.4011	0.4071	0.3543	----	0.369	4.41	1.00	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1555	0.1414	0.1579	0.1616	0.1624	0.1592	0.1555	0.1561	----	0.156	4.57	1.00	1.00	4.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3017	0.2476	0.2965	0.3148	0.3282	0.3529	0.3530	0.2807	----	0.309	4.42	1.00	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2181	0.1693	0.2180	0.2252	0.2262	0.2334	0.2412	0.2238	----	0.219	4.43	1.00	1.00	9.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0038	0.0032	0.0039	0.0038	0.0038	0.0040	0.0042	0.0039	----	0.00387	5.49	1.00	1.00	7.6		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.3119	0.2863	0.3224	0.3244	0.3315	0.3457	0.3488	0.3047	----	0.322	4.82	1.00	1.00	6.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4279	0.3766	0.4359	0.4497	0.4548	0.4674	0.4654	0.3953	----	0.434	4.60	1.00	1.00	7.6	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2922	0.2830	0.2854	0.2925	0.2945	0.2999	0.2962	0.2842	0.2797	0.290	4.70	-1	-1	2.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2463	0.2293	0.2591	0.2572	0.2627	0.2764	0.2797	0.2430	----	0.257	4.77	1.00	1.00	6.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1338	0.1319	0.1338	0.1350	0.1343	0.1346	0.1364	0.1341	0.1339	0.134	4.91	-1	-1	0.88		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.3139	0.2862	0.3257	0.3312	0.3409	0.3542	0.3823	0.3197	0.3467	0.333	4.95	0.999	1.00	8.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.0871	0.0908	0.0859	0.0948	0.1020	0.1103	0.1114	0.0904	----	0.0966	4.41	1.00	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3914	0.3426	0.3955	0.4115	0.4236	0.4431	0.4484	0.3853	----	0.405	4.73	1.00	1.00	8.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3145	0.2641	0.3099	0.3301	0.3442	0.3792	0.3930	0.2515	----	0.323	4.83	0.999	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.6128	0.5089	0.6051	0.6694	0.7035	0.7345	0.7525	0.5323	----	0.640	4.02	1.00	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3101	0.2736	0.3089	0.3373	0.3524	0.3660	0.3709	0.2827	----	0.325	5.57	1.00	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 8.87
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011202 0165

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M162686.D	CAL @ 20PPB	01/18/22 15:54	2	2M162684.D	CAL @ 5PPB	01/18/22 15:14
3	2M162685.D	CAL @ 10PPB	01/18/22 15:34	4	2M162688.D	CAL @ 50PPB	01/18/22 16:34
5	2M162690.D	CAL @ 100PPB	01/18/22 17:14	6	2M162692.D	CAL @ 250PPB	01/18/22 17:53
7	2M162694.D	CAL @ 500PPB	01/18/22 18:33	8	2M162683.D	CAL @ 1PPB	01/18/22 14:54
9	2M162682.D	CAL @ 0.5PPB	01/18/22 14:34				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2604	0.2490	0.2717	0.2762	0.2848	0.3030	0.3101	0.2664	----	0.278	5.42	1.00	1.00	7.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2088	0.1797	0.2141	0.2204	0.2259	0.2343	0.2386	0.2001	----	0.215	5.50	1.00	1.00	8.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2071	0.1933	0.2148	0.2199	0.2226	0.2317	0.2334	0.2081	----	0.216	5.43	1.00	1.00	6.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2902	0.2644	0.2985	0.2993	0.3104	0.3234	0.3257	0.2818	----	0.299	5.30	1.00	1.00	6.9	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.8864	0.8006	0.8988	0.9138	0.9482	0.9675	0.9582	0.8790	0.8861	0.904	4.95	1.00	1.00	5.7	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.6195	0.5484	0.6393	0.6654	0.6881	0.7014	0.7013	0.5892	----	0.644	4.99	1.00	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.4235	0.3489	0.4185	0.4564	0.4720	0.4815	0.5145	0.3487	----	0.433	4.95	0.999	1.00	14	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.2020	0.1566	0.1880	0.1964	0.2240	0.2244	0.2093	0.1746	----	0.197	5.45	0.999	1.00	12	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3023	0.2530	0.2976	0.3288	0.3476	0.3495	0.3517	0.2403	----	0.309	6.42	1.00	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.0209	0.0153	0.0196	0.0239	0.0255	0.0249	0.0224	0.0188	----	0.0214	5.71	0.997	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.3969	0.3218	0.3897	0.4339	0.4487	0.4504	0.4468	0.3274	----	0.402	5.81	1.00	1.00	13	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3536	0.2865	0.3496	0.3953	0.4185	0.4198	0.4208	0.2842	----	0.366	6.09	1.00	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2008	0.1615	0.1986	0.2154	0.2295	0.2318	0.2352	0.1677	----	0.205	6.11	1.00	1.00	14	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2565	0.2354	0.2801	0.2692	0.2811	0.2741	0.2750	0.2494	----	0.265	6.20	1.00	1.00	6.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2896	0.2540	0.2991	0.3058	0.3176	0.3121	0.3113	0.2713	----	0.295	6.49	1.00	1.00	7.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4131	0.3752	0.4361	0.4370	0.4505	0.4428	0.4461	0.4023	----	0.425	6.29	1.00	1.00	6.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2333	0.1975	0.2367	0.2471	0.2541	0.2586	0.2649	0.2121	----	0.238	5.87	1.00	1.00	9.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1712	0.1342	0.1753	0.1772	0.1860	0.1875	0.1960	0.1682	----	0.175	6.31	1.00	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2587	0.2399	0.2662	0.2682	0.2754	0.2820	0.2885	0.2571	----	0.267	6.29	1.00	1.00	5.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2023	1.1975	1.2023	1.1728	1.1934	1.1642	1.1446	1.1863	1.1890	1.18	5.95	-1	-1	1.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6775	0.6187	0.7152	0.6966	0.7134	0.7134	0.7001	0.7100	----	0.693	5.99	1.00	1.00	4.7	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2805	0.2375	0.2858	0.3020	0.3153	0.3241	0.3300	0.2338	----	0.289	6.78	1.00	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7862	0.7183	0.8164	0.8115	0.8338	0.8289	0.8023	0.7837	----	0.798	6.75	1.00	1.00	4.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	0.8606	0.6735	0.8477	0.9615	1.0913	0.9989	1.0542	0.6907	----	0.897	6.99	0.999	0.999	18	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.7493	0.5739	0.7035	0.8149	0.9258	0.8044	0.9190	0.5890	----	0.760	7.11	0.996	0.999	18	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.4624	0.3807	0.4545	0.5190	0.6026	0.5783	0.5841	0.3774	----	0.495	7.20	1.00	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6664	0.6248	0.6896	0.6859	0.7718	0.7589	0.7449	0.7163	----	0.707	6.79	1.00	1.00	7.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7331	0.6681	0.7632	0.7674	0.7850	0.7551	0.7754	0.7896	----	0.755	7.42	1.00	1.00	5.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8977	0.9098	0.8911	0.8906	0.9302	0.8730	0.8675	0.9609	0.8941	0.902	7.37	-1	-1	3.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.6373	1.4603	1.7041	1.7246	1.9191	1.7055	1.7383	1.6012	----	1.69	7.07	0.999	0.999	7.8	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.9716	0.8991	1.0168	0.9978	1.1097	1.0365	0.9854	1.0322	0.9348	0.998	6.85	0.999	1.00	6.1	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.9757	0.9023	1.0038	0.9915	1.1094	1.0016	1.0501	1.0382	----	1.01	7.07	0.999	0.999	6.0	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2208	0.1850	0.2111	0.2469	0.2500	0.2775	0.3004	0.2187	----	0.239	7.45	0.998	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.0672	0.9778	1.0981	1.0806	1.1275	1.1346	1.0805	1.1048	----	1.08	7.99	0.999	1.00	4.5	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1003	0.9929	1.1567	1.1282	1.1692	1.1645	1.1202	1.1639	----	1.12	8.04	1.00	1.00	5.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.0252	0.8776	1.0645	1.0504	1.1310	1.0879	1.0597	1.0085	----	1.04	8.26	1.00	1.00	7.2	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.2268	2.1335	2.3525	2.3050	2.5576	2.3323	2.2080	2.3654	----	2.31	7.26	0.999	1.00	5.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0220	0.0196	0.0241	0.0235	0.0212	0.0206	0.0222	0.0381	----	0.0240	7.34	0.999	1.00	25		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5213	0.4980	0.5471	0.5345	0.5449	0.5737	0.5923	0.5364	----	0.544	7.43	1.00	1.00	5.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.8430	0.7551	0.8400	0.9130	0.9268	0.9770	1.0204	0.8284	----	0.888	7.46	0.999	1.00	9.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.3119	1.1808	1.3610	1.3377	1.3524	1.3562	1.3138	1.2570	----	1.31	7.56	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 8.87

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M162686.D	CAL @ 20PPB	01/18/22 15:54	2	2M162684.D	CAL @ 5PPB	01/18/22 15:14
3	2M162685.D	CAL @ 10PPB	01/18/22 15:34	4	2M162688.D	CAL @ 50PPB	01/18/22 16:34
5	2M162690.D	CAL @ 100PPB	01/18/22 17:14	6	2M162692.D	CAL @ 250PPB	01/18/22 17:53
7	2M162694.D	CAL @ 500PPB	01/18/22 18:33	8	2M162683.D	CAL @ 1PPB	01/18/22 14:54
9	2M162682.D	CAL @ 0.5PPB	01/18/22 14:34				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.2590	1.9918	2.2436	2.2410	2.3203	2.3086	2.1665	2.2353	----	2.22	7.55	0.999	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.2479	1.2303	1.3590	1.3299	1.4163	1.3406	1.4234	1.3433	----	1.34	7.62	0.999	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.4157	2.2506	2.5019	2.4540	2.4773	2.3727	2.3175	2.5362	----	2.42	7.49	1.00	1.00	4.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3280	1.2248	1.3705	1.3755	1.3834	1.4228	1.4647	1.4437	----	1.38	7.46	1.00	1.00	5.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.5207	1.4637	1.6099	1.6080	1.6588	1.6597	1.7237	1.5579	----	1.60	7.58	1.00	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.5536	0.4683	0.5385	0.6076	0.6421	0.6484	0.7119	0.5221	----	0.587	7.59	0.998	1.00	14	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.6366	1.5072	1.7055	1.6875	1.7498	1.7206	1.7533	1.6498	----	1.68	7.78	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.7094	1.5833	1.7360	1.7543	1.8395	1.7649	1.7757	1.6996	----	1.73	7.80	1.00	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.9249	1.7537	1.9641	1.9504	2.0802	1.9607	1.9226	1.8695	----	1.93	7.90	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.6692	1.5297	1.6949	1.6982	1.7208	1.7808	1.7027	1.6800	----	1.68	7.97	1.00	1.00	4.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5832	1.3189	1.6049	1.6016	1.6973	1.6882	1.5983	1.3908	----	1.56	8.21	0.999	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8976	0.7519	0.9089	0.9141	0.9979	0.9857	0.9460	0.8382	----	0.905	8.19	0.999	1.00	8.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.2579	1.0063	1.2487	1.2876	1.4346	1.4039	1.4231	1.2169	----	1.28	8.65	1.00	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1791	0.1403	0.1752	0.1923	0.2203	0.2206	0.2308	0.1737	----	0.192	8.71	1.00	1.00	16	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.0775	0.0557	0.0730	0.0808	0.0924	0.0996	0.1145	0.0602	0.0530	0.0786	9.15	0.996	1.00	27		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.2443	0.2274	0.2585	0.2461	0.2723	0.2824	0.2794	0.2735	----	0.261	9.28	1.00	1.00	7.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5293	0.4673	0.5441	0.5379	0.6065	0.6045	0.5818	0.5718	----	0.555	9.20	0.999	1.00	8.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.4536	0.3861	0.4551	0.4518	0.5041	0.5018	0.4923	0.4767	----	0.465	9.50	1.00	1.00	8.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.6070	1.3000	1.6382	1.6329	1.8490	1.8020	1.7066	1.6948	----	1.65	9.36	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 8.87
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB Data File: 2M162403.D Instrument: GCMS 2

Cont Calibration Date/Time 1/12/2022 11:00:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	25.92	20	20	0.1	0.251	0.326	29.59	C1
Dichlorodifluoromethane	1	0		1.66	4.86	20	20	0.1	0.144	0.035	75.70	C1
Chloromethane	1	0		1.83	8.93	20	20	0.1	0.154	0.069	55.35	C1
Bromomethane	1	0		2.23	13.27	20	20	0.1	0.131	0.087	33.66	C1
Vinyl Chloride	1	0		1.93	11.09	20	20	0.1	0.205	0.114	44.53	C1
Chloroethane	1	0		2.32	16.41	20	20	0.1	0.153	0.126	17.95	
Trichlorofluoromethane	1	0		2.54	16.60	20	20	0.1	0.409	0.340	17.00	
Ethyl ether	1	0		2.78	19.24	20	20	0.5	0.177	0.171	3.81	
Furan	1	0		2.81	17.76	20	20	0.5	0.346	0.307	11.21	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.98	18.21	20	20	0.1	0.174	0.158	8.94	
Methylene Chloride	1	0		3.39	20.91	20	20	0.1	0.209	0.218	4.56	
Acrolein	1	0		2.89	72.17	100	20		0.035	0.025	27.83	C1
Acrylonitrile	1	0		3.60	18.20	20	20		0.097	0.088	8.99	
Iodomethane	1	0		3.12	15.45	20	20		0.193	0.168	22.73	C1
Acetone	1	0		3.02	89.92	100	20	0.1	0.073	0.065	10.08	
Carbon Disulfide	1	0		3.19	15.53	20	20	0.1	0.506	0.393	22.36	C1
t-Butyl Alcohol	1	0		3.46	84.04	100	20		0.030	0.025	15.96	
n-Hexane	1	0		3.85	15.43	20	20		0.174	0.134	22.85	C1
Di-isopropyl-ether	1	0		4.01	20.72	20	20		0.596	0.618	3.62	
1,1-Dichloroethene	1	0		2.98	17.65	20	20	0.1	0.288	0.254	11.74	
Methyl Acetate	1	0		3.29	19.66	20	20	0.1	0.191	0.188	1.68	
Methyl-t-butyl ether	1	0		3.62	20.97	20	20	0.1	0.636	0.666	4.86	
1,1-Dichloroethane	1	0		3.98	20.58	20	20	0.2	0.356	0.366	2.91	
trans-1,2-Dichloroethene	1	0		3.63	20.19	20	20	0.1	0.218	0.220	0.96	
Ethyl-t-butyl ether	1	0		4.28	21.29	20	20	0.5	0.651	0.692	6.44	
cis-1,2-Dichloroethene	1	0		4.40	20.50	20	20	0.1	0.359	0.368	2.52	
Bromochloromethane	1	0		4.56	23.25	20	20		0.155	0.181	16.23	
2,2-Dichloropropane	1	0		4.40	16.02	20	20		0.327	0.262	19.92	
Ethyl acetate	1	0		4.42	19.13	20	20		0.247	0.236	4.35	
1,4-Dioxane	1	0		5.48	999.56	1000	20		0.004	0.004	0.04	
1,1-Dichloropropene	1	0		4.81	21.41	20	20		0.294	0.315	7.03	
Chloroform	1	0		4.59	23.03	20	20	0.2	0.395	0.455	15.17	
Dibromofluoromethane	1	0	S	4.69	30.06	30	**		0.288	0.288	0.22	
Cyclohexane	1	0		4.76	19.65	20	20	0.1	0.250	0.246	1.75	
1,2-Dichloroethane-d4	1	0	S	4.90	28.82	30	**		0.147	0.141	3.93	
1,2-Dichloroethane	1	0		4.94	21.71	20	20	0.1	0.318	0.346	8.57	
2-Butanone	1	0		4.40	17.02	20	20	0.1	0.106	0.090	14.88	
1,1,1-Trichloroethane	1	0		4.72	21.42	20	20	0.1	0.368	0.394	7.10	
Carbon Tetrachloride	1	0		4.82	21.52	20	20	0.1	0.290	0.312	7.60	
Vinyl Acetate	1	0		4.01	17.18	20	20		0.675	0.580	14.08	
Bromodichloromethane	1	0		5.56	23.24	20	20	0.2	0.300	0.349	16.18	
Methylcyclohexane	1	0		5.40	20.97	20	20	0.1	0.252	0.264	4.86	
Dibromomethane	1	0		5.49	22.66	20	20		0.173	0.196	13.29	
1,2-Dichloropropane	1	0		5.42	22.09	20	20	0.1	0.203	0.224	10.43	
Trichloroethene	1	0		5.29	22.39	20	20	0.2	0.251	0.281	11.95	
Benzene	1	0		4.94	21.83	20	20	0.5	0.821	0.897	9.17	
tert-Amyl methyl ether	1	0		4.98	22.34	20	20		0.642	0.717	11.71	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.94	18.59	20	20	0.5	0.543	0.505	7.04	
Methyl methacrylate	1	0		5.45	21.65	20	20	0.5	0.251	0.271	8.25	
Dibromochloromethane	1	0		6.42	22.18	20	20	0.1	0.296	0.328	10.91	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M162403.D **Instrument:** GCMS 2

Cont Calibration Date/Time 1/12/2022 11:00:00 P **Method:** EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.70	21.80	20	20		0.006	0.007	9.01	
cis-1,3-Dichloropropene	1	0		5.79	20.26	20	20	0.2	0.438	0.443	1.32	
trans-1,3-Dichloropropene	1	0		6.08	19.62	20	20	0.1	0.406	0.398	1.92	
Ethyl methacrylate	1	0		6.10	18.80	20	20	0.5	0.257	0.242	5.98	
1,1,2-Trichloroethane	1	0		6.19	22.56	20	20	0.1	0.257	0.290	12.82	
1,2-Dibromoethane	1	0		6.49	22.44	20	20	0.1	0.289	0.324	12.18	
1,3-Dichloropropane	1	0		6.28	22.36	20	20		0.432	0.483	11.82	
4-Methyl-2-Pentanone	1	0		5.86	18.78	20	20	0.1	0.298	0.280	6.10	
2-Hexanone	1	0		6.30	18.10	20	20	0.1	0.220	0.199	9.48	
Tetrachloroethene	1	0		6.28	21.63	20	20	0.2	0.239	0.258	8.14	
Toluene-d8	1	0	S	5.95	29.11	30	**		1.259	1.222	2.96	
Toluene	1	0		5.98	21.70	20	20	0.4	0.678	0.736	8.50	
1,1,1,2-Tetrachloroethane	1	0		6.78	22.02	20	20		0.278	0.306	10.09	
Chlorobenzene	1	0		6.74	22.81	20	20	0.5	0.755	0.861	14.06	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	17.77	20	20	0.5	1.165	1.035	11.13	
n-Amyl acetate	1	0		7.10	15.88	20	20	0.5	1.046	0.830	20.62	C1
Bromoform	1	0		7.20	20.21	20	20	0.1	0.478	0.483	1.05	
Ethylbenzene	1	0		6.79	19.99	20	20	0.1	0.734	0.733	0.04	
1,1,2,2-Tetrachloroethane	1	0		7.42	20.64	20	20	0.1	0.777	0.802	3.18	
Bromofluorobenzene	1	0	S	7.36	29.28	30	**		0.870	0.849	2.40	
Styrene	1	0		7.07	20.96	20	20	0.3	1.727	1.809	4.78	
m&p-Xylenes	1	0		6.84	41.54	40	20	0.1	1.020	1.059	3.85	
o-Xylene	1	0		7.07	21.01	20	20	0.3	1.015	1.066	5.03	
trans-1,4-Dichloro-2-butene	1	0		7.44	16.55	20	20		0.302	0.250	17.23	
1,3-Dichlorobenzene	1	0		7.98	21.66	20	20	0.6	1.061	1.149	8.29	
1,4-Dichlorobenzene	1	0		8.03	21.57	20	20	0.5	1.097	1.183	7.83	
1,2-Dichlorobenzene	1	0		8.26	21.51	20	20	0.4	1.021	1.098	7.56	
Isopropylbenzene	1	0		7.26	21.51	20	20	0.1	2.314	2.489	7.56	
Cyclohexanone	1	0		7.34	66.20	100	20		0.034	0.023	33.80	C1
Camphene	1	0		7.43	21.60	20	20		0.604	0.652	8.02	
1,2,3-Trichloropropane	1	0		7.45	17.93	20	20		1.012	0.907	10.34	
2-Chlorotoluene	1	0		7.56	21.54	20	20		1.360	1.464	7.71	
p-Ethyltoluene	1	0		7.54	21.49	20	20		2.472	2.656	7.43	
4-Chlorotoluene	1	0		7.62	21.26	20	20		1.381	1.468	6.32	
n-Propylbenzene	1	0		7.49	21.61	20	20		2.515	2.717	8.04	
Bromobenzene	1	0		7.46	20.89	20	20		1.481	1.547	4.43	
1,3,5-Trimethylbenzene	1	0		7.57	20.77	20	20		1.674	1.739	3.83	
Butyl methacrylate	1	0		7.58	18.59	20	20	0.5	0.747	0.694	7.05	
t-Butylbenzene	1	0		7.77	21.47	20	20		1.685	1.808	7.33	
1,2,4-Trimethylbenzene	1	0		7.79	21.01	20	20		1.810	1.901	5.06	
sec-Butylbenzene	1	0		7.89	21.71	20	20		1.986	2.156	8.57	
4-Isopropyltoluene	1	0		7.96	20.75	20	20		1.775	1.842	3.75	
n-Butylbenzene	1	0		8.20	20.88	20	20		1.745	1.822	4.42	
p-Diethylbenzene	1	0		8.18	20.71	20	20		1.039	1.077	3.57	
1,2,4,5-Tetramethylbenzene	1	0		8.64	20.59	20	20		1.521	1.566	2.94	
1,2-Dibromo-3-Chloropropane	1	0		8.70	17.12	20	20	0.05	0.197	0.169	14.38	
Camphor	1	0		9.14	146.03	200	20		0.106	0.078	26.98	C1
Hexachlorobutadiene	1	0		9.27	20.17	20	20		0.234	0.236	0.86	
1,2,4-Trichlorobenzene	1	0		9.20	20.32	20	20	0.2	0.528	0.537	1.62	
1,2,3-Trichlorobenzene	1	0		9.49	17.98	20	20		0.458	0.411	10.11	
Naphthalene	1	0		9.35	17.23	20	20		1.748	1.506	13.83	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB Data File: 2M162440.D Instrument: GCMS 2

Cont Calibration Date/Time 1/13/2022 11:15:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	23.41	20	20	0.1	0.251	0.294	17.03	
Dichlorodifluoromethane	1	0		1.66	8.30	20	20	0.1	0.144	0.060	58.51	C1
Chloromethane	1	0		1.83	12.50	20	20	0.1	0.154	0.096	37.49	C1
Bromomethane	1	0		2.23	18.13	20	20	0.1	0.131	0.119	9.35	
Vinyl Chloride	1	0		1.93	14.01	20	20	0.1	0.205	0.144	29.94	C1
Chloroethane	1	0		2.32	17.23	20	20	0.1	0.153	0.132	13.83	
Trichlorofluoromethane	1	0		2.54	18.68	20	20	0.1	0.409	0.382	6.60	
Ethyl ether	1	0		2.78	19.48	20	20	0.5	0.177	0.173	2.60	
Furan	1	0		2.82	17.93	20	20	0.5	0.346	0.311	10.33	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.98	20.03	20	20	0.1	0.174	0.174	0.15	
Methylene Chloride	1	0		3.39	22.54	20	20	0.1	0.209	0.235	12.71	
Acrolein	1	0		2.89	77.16	100	20		0.035	0.027	22.84	C1
Acrylonitrile	1	0		3.60	17.73	20	20		0.097	0.086	11.34	
Iodomethane	1	0		3.12	20.43	20	20		0.193	0.223	2.13	
Acetone	1	0		3.02	81.97	100	20	0.1	0.073	0.060	18.03	
Carbon Disulfide	1	0		3.19	17.81	20	20	0.1	0.506	0.451	10.97	
t-Butyl Alcohol	1	0		3.46	75.70	100	20		0.030	0.023	24.30	C1
n-Hexane	1	0		3.85	18.90	20	20		0.174	0.164	5.52	
Di-isopropyl-ether	1	0		4.01	21.35	20	20		0.596	0.636	6.74	
1,1-Dichloroethene	1	0		2.98	19.22	20	20	0.1	0.288	0.277	3.88	
Methyl Acetate	1	0		3.29	17.24	20	20	0.1	0.191	0.165	13.78	
Methyl-t-butyl ether	1	0		3.62	21.17	20	20	0.1	0.636	0.673	5.83	
1,1-Dichloroethane	1	0		3.98	21.98	20	20	0.2	0.356	0.391	9.88	
trans-1,2-Dichloroethene	1	0		3.63	22.02	20	20	0.1	0.218	0.240	10.12	
Ethyl-t-butyl ether	1	0		4.28	20.60	20	20	0.5	0.651	0.670	3.01	
cis-1,2-Dichloroethene	1	0		4.40	21.75	20	20	0.1	0.359	0.391	8.73	
Bromochloromethane	1	0		4.55	23.94	20	20		0.155	0.186	19.68	
2,2-Dichloropropane	1	0		4.40	21.23	20	20		0.327	0.347	6.17	
Ethyl acetate	1	0		4.42	17.37	20	20		0.247	0.214	13.15	
1,4-Dioxane	1	0		5.48	911.17	1000	20		0.004	0.003	8.88	
1,1-Dichloropropene	1	0		4.81	22.38	20	20		0.294	0.329	11.92	
Chloroform	1	0		4.59	24.03	20	20	0.2	0.395	0.475	20.17	
Dibromofluoromethane	1	0	S	4.69	29.91	30	**		0.288	0.287	0.31	
Cyclohexane	1	0		4.76	20.39	20	20	0.1	0.250	0.255	1.96	
1,2-Dichloroethane-d4	1	0	S	4.90	28.54	30	**		0.147	0.139	4.86	
1,2-Dichloroethane	1	0		4.94	22.44	20	20	0.1	0.318	0.357	12.19	
2-Butanone	1	0		4.40	16.37	20	20	0.1	0.106	0.087	18.13	
1,1,1-Trichloroethane	1	0		4.72	22.69	20	20	0.1	0.368	0.417	13.46	
Carbon Tetrachloride	1	0		4.82	23.06	20	20	0.1	0.290	0.334	15.30	
Vinyl Acetate	1	0		4.00	20.02	20	20		0.675	0.675	0.12	
Bromodichloromethane	1	0		5.56	23.48	20	20	0.2	0.300	0.353	17.40	
Methylcyclohexane	1	0		5.40	22.67	20	20	0.1	0.252	0.286	13.37	
Dibromomethane	1	0		5.49	23.69	20	20		0.173	0.205	18.44	
1,2-Dichloropropane	1	0		5.42	23.27	20	20	0.1	0.203	0.236	16.36	
Trichloroethene	1	0		5.29	24.34	20	20	0.2	0.251	0.305	21.71	C1
Benzene	1	0		4.94	23.09	20	20	0.5	0.821	0.948	15.46	
tert-Amyl methyl ether	1	0		4.98	21.47	20	20		0.642	0.689	7.36	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.94	17.11	20	20	0.5	0.543	0.465	14.47	
Methyl methacrylate	1	0		5.45	17.07	20	20	0.5	0.251	0.214	14.63	
Dibromochloromethane	1	0		6.42	23.24	20	20	0.1	0.296	0.344	16.19	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M162440.D **Instrument:** GCMS 2

Cont Calibration Date/Time 1/13/2022 11:15:00 **Method:** EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.70	24.07	20	20		0.006	0.007	20.36	
cis-1,3-Dichloropropene	1	0		5.79	22.01	20	20	0.2	0.438	0.482	10.06	
trans-1,3-Dichloropropene	1	0		6.08	21.70	20	20	0.1	0.406	0.441	8.50	
Ethyl methacrylate	1	0		6.10	19.68	20	20	0.5	0.257	0.253	1.60	
1,1,2-Trichloroethane	1	0		6.19	23.43	20	20	0.1	0.257	0.301	17.14	
1,2-Dibromoethane	1	0		6.49	22.98	20	20	0.1	0.289	0.332	14.92	
1,3-Dichloropropane	1	0		6.28	22.89	20	20		0.432	0.494	14.47	
4-Methyl-2-Pentanone	1	0		5.86	17.51	20	20	0.1	0.298	0.261	12.44	
2-Hexanone	1	0		6.30	17.07	20	20	0.1	0.220	0.188	14.65	
Tetrachloroethene	1	0		6.28	23.00	20	20	0.2	0.239	0.274	14.99	
Toluene-d8	1	0	S	5.95	29.75	30	**		1.259	1.249	0.84	
Toluene	1	0		5.98	22.88	20	20	0.4	0.678	0.776	14.41	
1,1,1,2-Tetrachloroethane	1	0		6.78	23.76	20	20		0.278	0.330	18.81	
Chlorobenzene	1	0		6.74	23.94	20	20	0.5	0.755	0.903	19.68	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	18.65	20	20	0.5	1.165	1.086	6.77	
n-Amyl acetate	1	0		7.10	18.02	20	20	0.5	1.046	0.942	9.90	
Bromoform	1	0		7.20	20.61	20	20	0.1	0.478	0.493	3.05	
Ethylbenzene	1	0		6.79	21.90	20	20	0.1	0.734	0.803	9.51	
1,1,2,2-Tetrachloroethane	1	0		7.42	21.12	20	20	0.1	0.777	0.821	5.59	
Bromofluorobenzene	1	0	S	7.36	29.85	30	**		0.870	0.866	0.49	
Styrene	1	0		7.07	22.97	20	20	0.3	1.727	1.984	14.87	
m&p-Xylenes	1	0		6.84	45.73	40	20	0.1	1.020	1.166	14.32	
o-Xylene	1	0		7.07	23.08	20	20	0.3	1.015	1.171	15.39	
trans-1,4-Dichloro-2-butene	1	0		7.44	17.21	20	20		0.302	0.260	13.96	
1,3-Dichlorobenzene	1	0		7.98	23.76	20	20	0.6	1.061	1.261	18.80	
1,4-Dichlorobenzene	1	0		8.03	23.85	20	20	0.5	1.097	1.309	19.27	
1,2-Dichlorobenzene	1	0		8.26	23.35	20	20	0.4	1.021	1.192	16.76	
Isopropylbenzene	1	0		7.26	23.52	20	20	0.1	2.314	2.722	17.61	
Cyclohexanone	1	0		7.34	98.85	100	20		0.034	0.034	1.15	
Camphene	1	0		7.43	22.77	20	20		0.604	0.687	13.83	
1,2,3-Trichloropropane	1	0		7.45	18.57	20	20		1.012	0.939	7.15	
2-Chlorotoluene	1	0		7.56	23.26	20	20		1.360	1.581	16.30	
p-Ethyltoluene	1	0		7.54	22.38	20	20		2.472	2.766	11.89	
4-Chlorotoluene	1	0		7.62	22.87	20	20		1.381	1.580	14.37	
n-Propylbenzene	1	0		7.49	23.71	20	20		2.515	2.981	18.54	
Bromobenzene	1	0		7.46	22.06	20	20		1.481	1.633	10.29	
1,3,5-Trimethylbenzene	1	0		7.57	22.53	20	20		1.674	1.886	12.63	
Butyl methacrylate	1	0		7.58	20.20	20	20	0.5	0.747	0.755	1.02	
t-Butylbenzene	1	0		7.77	23.41	20	20		1.685	1.972	17.07	
1,2,4-Trimethylbenzene	1	0		7.79	23.33	20	20		1.810	2.111	16.65	
sec-Butylbenzene	1	0		7.89	23.93	20	20		1.986	2.376	19.65	
4-Isopropyltoluene	1	0		7.96	23.11	20	20		1.775	2.051	15.55	
n-Butylbenzene	1	0		8.20	23.28	20	20		1.745	2.031	16.41	
p-Diethylbenzene	1	0		8.18	21.66	20	20		1.039	1.125	8.28	
1,2,4,5-Tetramethylbenzene	1	0		8.64	21.02	20	20		1.521	1.599	5.11	
1,2-Dibromo-3-Chloropropane	1	0		8.71	16.47	20	20	0.05	0.197	0.162	17.66	
Camphor	1	0		9.14	127.21	200	20		0.106	0.068	36.40	C1
Hexachlorobutadiene	1	0		9.28	23.07	20	20		0.234	0.270	15.36	
1,2,4-Trichlorobenzene	1	0		9.20	21.95	20	20	0.2	0.528	0.580	9.75	
1,2,3-Trichlorobenzene	1	0		9.50	18.97	20	20		0.458	0.434	5.13	
Naphthalene	1	0		9.35	16.68	20	20		1.748	1.458	16.60	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20PPB Data File: 2M162741.D Instrument: GCMS 2

Cont Calibration Date/Time 1/19/2022 10:07:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	21.65	20	20	0.1	0.254	0.275	8.26	
Dichlorodifluoromethane	1	0		1.66	7.44	20	20	0.1	0.271	0.101	62.78	C1
Chloromethane	1	0		1.83	13.75	20	20	0.1	0.184	0.126	31.26	C1
Bromomethane	1	0		2.23	16.03	20	20	0.1	0.148	0.119	19.83	
Vinyl Chloride	1	0		1.93	14.13	20	20	0.1	0.254	0.179	29.38	C1
Chloroethane	1	0		2.32	17.55	20	20	0.1	0.169	0.148	12.27	
Trichlorofluoromethane	1	0		2.54	18.83	20	20	0.1	0.488	0.460	5.83	
Ethyl ether	1	0		2.78	20.61	20	20	0.5	0.171	0.176	3.07	
Furan	1	0		2.81	20.57	20	20	0.5	0.300	0.309	2.85	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.98	20.43	20	20	0.1	0.210	0.215	2.16	
Methylene Chloride	1	0		3.39	20.90	20	20	0.1	0.232	0.242	4.48	
Acrolein	1	0		2.89	110.62	100	20		0.031	0.034	10.62	
Acrylonitrile	1	0		3.60	21.36	20	20		0.090	0.096	6.78	
Iodomethane	1	0		3.12	14.75	20	20		0.254	0.226	26.26	C1
Acetone	1	0		3.02	111.83	100	20	0.1	0.066	0.073	11.83	
Carbon Disulfide	1	0		3.19	18.30	20	20	0.1	0.576	0.527	8.49	
t-Butyl Alcohol	1	0		3.46	110.08	100	20		0.026	0.028	10.08	
n-Hexane	1	0		3.86	22.28	20	20		0.171	0.191	11.38	
Di-isopropyl-ether	1	0		4.01	22.03	20	20		0.552	0.608	10.14	
1,1-Dichloroethene	1	0		2.98	19.51	20	20	0.1	0.293	0.286	2.45	
Methyl Acetate	1	0		3.29	21.11	20	20	0.1	0.164	0.173	5.56	
Methyl-t-butyl ether	1	0		3.62	21.60	20	20	0.1	0.657	0.709	8.02	
1,1-Dichloroethane	1	0		3.98	21.20	20	20	0.2	0.371	0.394	6.01	
trans-1,2-Dichloroethene	1	0		3.63	20.93	20	20	0.1	0.244	0.255	4.66	
Ethyl-t-butyl ether	1	0		4.28	22.24	20	20	0.5	0.573	0.638	11.20	
cis-1,2-Dichloroethene	1	0		4.40	21.94	20	20	0.1	0.369	0.405	9.71	
Bromochloromethane	1	0		4.55	22.43	20	20		0.156	0.175	12.14	
2,2-Dichloropropane	1	0		4.40	24.19	20	20		0.309	0.374	20.94	C1
Ethyl acetate	1	0		4.42	22.92	20	20		0.219	0.251	14.60	
1,4-Dioxane	1	0		5.48	1101.18	1000	20		0.004	0.004	10.12	
1,1-Dichloropropene	1	0		4.81	21.41	20	20		0.322	0.345	7.05	
Chloroform	1	0		4.59	22.10	20	20	0.2	0.434	0.480	10.51	
Dibromofluoromethane	1	0	S	4.69	30.36	30	**		0.290	0.293	1.18	
Cyclohexane	1	0		4.76	21.16	20	20	0.1	0.257	0.272	5.81	
1,2-Dichloroethane-d4	1	0	S	4.90	29.97	30	**		0.134	0.134	0.10	
1,2-Dichloroethane	1	0		4.94	21.56	20	20	0.1	0.333	0.360	7.82	
2-Butanone	1	0		4.40	21.05	20	20	0.1	0.097	0.102	5.24	
1,1,1-Trichloroethane	1	0		4.72	21.85	20	20	0.1	0.405	0.443	9.24	
Carbon Tetrachloride	1	0		4.82	22.23	20	20	0.1	0.323	0.359	11.14	
Vinyl Acetate	1	0		4.01	22.47	20	20		0.640	0.719	12.34	
Bromodichloromethane	1	0		5.56	22.12	20	20	0.2	0.325	0.360	10.58	
Methylcyclohexane	1	0		5.40	22.10	20	20	0.1	0.278	0.307	10.49	
Dibromomethane	1	0		5.49	21.94	20	20		0.215	0.236	9.70	
1,2-Dichloropropane	1	0		5.42	21.75	20	20	0.1	0.216	0.235	8.76	
Trichloroethene	1	0		5.29	22.01	20	20	0.2	0.299	0.329	10.05	
Benzene	1	0		4.94	21.60	20	20	0.5	0.904	0.977	8.01	
tert-Amyl methyl ether	1	0		4.98	22.50	20	20		0.644	0.725	12.52	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.93	23.25	20	20	0.5	0.433	0.503	16.24	
Methyl methacrylate	1	0		5.45	24.35	20	20	0.5	0.197	0.240	21.76	C1
Dibromochloromethane	1	0		6.42	22.97	20	20	0.1	0.309	0.355	14.85	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20PPB Data File: 2M162741.D Instrument: GCMS 2

Cont Calibration Date/Time 1/19/2022 10:07:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.70	28.56	20	20		0.021	0.031	42.82	C1
cis-1,3-Dichloropropene	1	0		5.79	23.48	20	20	0.2	0.402	0.472	17.42	
trans-1,3-Dichloropropene	1	0		6.08	23.44	20	20	0.1	0.366	0.429	17.22	
Ethyl methacrylate	1	0		6.10	23.85	20	20	0.5	0.205	0.245	19.27	
1,1,2-Trichloroethane	1	0		6.19	22.66	20	20	0.1	0.265	0.300	13.30	
1,2-Dibromoethane	1	0		6.49	23.16	20	20	0.1	0.295	0.342	15.82	
1,3-Dichloropropane	1	0		6.28	22.83	20	20		0.425	0.486	14.16	
4-Methyl-2-Pentanone	1	0		5.86	23.46	20	20	0.1	0.238	0.279	17.31	
2-Hexanone	1	0		6.30	23.26	20	20	0.1	0.175	0.203	16.32	
Tetrachloroethene	1	0		6.28	22.46	20	20	0.2	0.267	0.300	12.28	
Toluene-d8	1	0	S	5.95	30.23	30	**		1.184	1.193	0.76	
Toluene	1	0		5.98	22.14	20	20	0.4	0.693	0.767	10.70	
1,1,1,2-Tetrachloroethane	1	0		6.78	22.55	20	20		0.289	0.325	12.75	
Chlorobenzene	1	0		6.74	22.71	20	20	0.5	0.798	0.906	13.53	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	23.11	20	20	0.5	0.897	1.037	15.55	
n-Amyl acetate	1	0		7.10	24.11	20	20	0.5	0.760	0.916	20.55	C1
Bromoform	1	0		7.20	21.44	20	20	0.1	0.495	0.531	7.19	
Ethylbenzene	1	0		6.79	21.64	20	20	0.1	0.707	0.765	8.19	
1,1,2,2-Tetrachloroethane	1	0		7.42	21.81	20	20	0.1	0.755	0.823	9.05	
Bromofluorobenzene	1	0	S	7.36	29.66	30	**		0.902	0.891	1.14	
Styrene	1	0		7.07	22.32	20	20	0.3	1.686	1.882	11.58	
m&p-Xylenes	1	0		6.84	44.34	40	20	0.1	0.998	1.106	10.84	
o-Xylene	1	0		7.07	21.81	20	20	0.3	1.009	1.101	9.05	
trans-1,4-Dichloro-2-butene	1	0		7.44	23.19	20	20		0.239	0.277	15.97	
1,3-Dichlorobenzene	1	0		7.98	22.60	20	20	0.6	1.084	1.225	13.00	
1,4-Dichlorobenzene	1	0		8.03	22.54	20	20	0.5	1.125	1.267	12.69	
1,2-Dichlorobenzene	1	0		8.26	20.87	20	20	0.4	1.038	1.083	4.33	
Isopropylbenzene	1	0		7.26	22.47	20	20	0.1	2.310	2.595	12.34	
Cyclohexanone	1	0		7.34	162.07	100	20		0.024	0.033	62.07	C1
Camphene	1	0		7.43	23.53	20	20		0.544	0.639	17.63	
1,2,3-Trichloropropane	1	0		7.45	22.55	20	20		0.888	1.001	12.74	
2-Chlorotoluene	1	0		7.56	23.36	20	20		1.309	1.529	16.82	
p-Ethyltoluene	1	0		7.54	23.17	20	20		2.221	2.573	15.84	
4-Chlorotoluene	1	0		7.62	22.20	20	20		1.336	1.483	10.98	
n-Propylbenzene	1	0		7.49	22.93	20	20		2.416	2.770	14.67	
Bromobenzene	1	0		7.46	22.42	20	20		1.377	1.543	12.08	
1,3,5-Trimethylbenzene	1	0		7.57	22.08	20	20		1.600	1.767	10.40	
Butyl methacrylate	1	0		7.58	23.03	20	20	0.5	0.587	0.676	15.17	
t-Butylbenzene	1	0		7.77	22.99	20	20		1.676	1.927	14.93	
1,2,4-Trimethylbenzene	1	0		7.79	23.14	20	20		1.733	2.005	15.71	
sec-Butylbenzene	1	0		7.89	23.39	20	20		1.928	2.255	16.95	
4-Isopropyltoluene	1	0		7.96	23.39	20	20		1.685	1.970	16.97	
n-Butylbenzene	1	0		8.20	21.50	20	20		1.560	1.678	7.51	
p-Diethylbenzene	1	0		8.18	21.72	20	20		0.905	0.983	8.59	
1,2,4,5-Tetramethylbenzene	1	0		8.64	21.37	20	20		1.285	1.373	6.86	
1,2-Dibromo-3-Chloropropane	1	0		8.71	19.73	20	20	0.05	0.192	0.189	1.37	
Camphor	1	0		9.14	184.74	200	20		0.079	0.079	7.63	
Hexachlorobutadiene	1	0		9.28	22.36	20	20		0.261	0.291	11.80	
1,2,4-Trichlorobenzene	1	0		9.20	21.43	20	20	0.2	0.555	0.595	7.15	
1,2,3-Trichlorobenzene	1	0		9.49	20.79	20	20		0.465	0.484	3.93	
Naphthalene	1	0		9.35	19.91	20	20		1.654	1.647	0.44	

S-Surrogate Compound I-Internal Standard Compound Page 2 of 2

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

2011202 0173

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M161965.D Method: EPA 8260D

Analysis Date/Time: 01/03/22 23:12

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	430080	5.09	336651	6.73	160045	8.02								
Eval File Area Limit:	215040-860160		168326-673302		80022-320090									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File	Sample													
2M161961.D	CAL @ 0.5 PPB	378384	5.09	297049	6.73	131818	8.02							
2M161962.D	CAL @ 1 PPB	379656	5.09	292295	6.73	129675	8.02							
2M161963.D	CAL @ 5 PPB	423316	5.09	330944	6.73	152342	8.02							
2M161964.D	CAL @ 10 PPB	376549	5.09	294274	6.73	137589	8.02							
2M161965.D	CAL @ 20 PPB	430080	5.09	336651	6.73	160045	8.02							
2M161967.D	CAL @ 50 PPB	381222	5.09	305373	6.73	141801	8.02							
2M161969.D	CAL @ 100 PPB	406131	5.09	332933	6.73	159292	8.02							
2M161971.D	CAL @ 250 PPB	401907	5.09	334983	6.73	162147	8.02							
2M161973.D	CAL @ 500 PPB	356825	5.09	304088	6.73	153988	8.02							
2M161975.D	BLK	392867	5.09	306507	6.73	135844	8.02							
2M161978.D	1 PPB	379697	5.09	298614	6.73	136834	8.02							
2M161979.D	ICV	351129	5.09	279413	6.73	133874	8.02							
2M161980.D	STD	441840	5.09	356806	6.73	167251	8.02							
2M161981.D	BLK	379515	5.09	297899	6.73	135372	8.02							
2M161982.D	BLK	372716	5.09	293011	6.73	137012	8.02							
2M161983.D	DAILY BLANK	370013	5.09	292267	6.73	135786	8.02							
2M161984.D	DAILY BLANK	348546	5.09	277924	6.73	130659	8.02							
2M161985.D	MDL @ 1 PPB	349050	5.09	276043	6.73	125368	8.02							
2M161986.D	MDL @ 1 PPB	377362	5.09	300829	6.73	142571	8.02							
2M161987.D	@ 1 PPB	345193	5.09	277107	6.73	127202	8.02							
2M161988.D	1 PPB	401269	5.09	317954	6.73	143600	8.02							
2M161989.D	MBS99204	347851	5.09	274571	6.73	126904	8.02							
2M161990.D	MBS99205	382191	5.09	307106	6.73	148275	8.02							
2M161991.D	MBS99206	351751	5.09	276643	6.73	133137	8.02							
2M161992.D	MBS99207	411260	5.09	325239	6.73	151894	8.02							
2M161993.D	MBS99208	353779	5.09	283449	6.73	137293	8.02							
2M161994.D	MBS99209	407961	5.09	327904	6.73	155168	8.02							
2M161995.D	MBS99210	369433	5.09	295683	6.73	139062	8.02							
2M161996.D	BLK	370890	5.09	298555	6.73	139547	8.02							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162403.D Method: EPA 8260D

Analysis Date/Time: 01/12/22 23:00

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	292534	5.09	244890	6.73	121414	8.02								
Eval File Area Limit:	146267-585068		122445-489780		60707-242828									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162404.D 20 PPB	331322	5.09	277216	6.73	132814	8.02								
2M162406.D 20 PPB	323094	5.09	269116	6.73	130613	8.01								
2M162410.D DAILY BLANK	326105	5.09	271311	6.73	128733	8.02								
2M162411.D AD28256-010	360120	5.09	303103	6.73	139732	8.02								
2M162412.D AD28256-003	323727	5.09	273912	6.73	126860	8.02								
2M162413.D AD28256-002	318847	5.09	271308	6.73	129694	8.02								
2M162414.D STD	326320	5.09	271755	6.73	130928	8.02								
2M162415.D STD	371414	5.09	310542	6.73	149762	8.02								
2M162416.D AD28256-008(MS:AD	316086	5.09	264362	6.73	130392	8.02								
2M162417.D AD28256-009(MSD:A	335661	5.09	284225	6.73	139191	8.02								
2M162418.D BLK	337176	5.09	285152	6.73	134634	8.02								
2M162419.D BLK	323447	5.09	267778	6.73	126070	8.02								
2M162420.D AD28256-001	321363	5.09	269785	6.73	126633	8.02								
2M162421.D AD28256-004	331826	5.09	280239	6.73	129638	8.02								
2M162422.D AD28256-005	320299	5.09	266531	6.73	121252	8.02								
2M162423.D AD28256-006	321345	5.09	269158	6.73	126613	8.02								
2M162424.D AD28256-007	322725	5.09	270661	6.73	127475	8.02								
2M162425.D BLK	347874	5.09	293263	6.73	135977	8.02								
2M162426.D AD28258-001	315774	5.09	271210	6.73	125890	8.02								
2M162427.D AD28258-002	315627	5.09	265393	6.73	123300	8.02								
2M162428.D AD28258-003	316582	5.09	266024	6.73	125502	8.02								
2M162429.D AD28258-004	314612	5.09	265327	6.73	122646	8.02								
2M162430.D BLK	309020	5.09	260464	6.73	123306	8.02								
2M162431.D AD28258-005	308306	5.09	261947	6.73	123814	8.02								
2M162432.D AD28258-006	312840	5.09	263976	6.73	122888	8.02								
2M162433.D AD28258-007	313316	5.09	262939	6.73	122566	8.02								
2M162434.D AD28258-008	312768	5.09	264297	6.73	120692	8.02								
2M162435.D MBS99290	314077	5.09	264772	6.73	123863	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162440.D Method: EPA 8260D

Analysis Date/Time: 01/13/22 11:15

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	285132	5.09	237728	6.73	114862	8.02								
Eval File Area Limit:	142566-570264		118864-475456		57431-229724									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162441.D 20 PPB	311046	5.09	262050	6.73	125952	8.02								
2M162442.D BLK	309130	5.09	258397	6.73	120970	8.02								
2M162443.D BLK	307730	5.09	257881	6.73	118691	8.02								
2M162444.D DAILY BLANK	298905	5.09	255896	6.73	119604	8.02								
2M162445.D DAILY BLANK	305068	5.09	258115	6.73	119264	8.02								
2M162446.D AD28247-010	305800	5.09	261894	6.73	122130	8.02								
2M162447.D AD28248-001	285585	5.09	245652	6.73	150716	8.02								
2M162448.D MBS99291	331093	5.09	273240	6.73	131373	8.02								
2M162449.D MBS99292	345459	5.09	285510	6.73	136528	8.02								
2M162452.D AD28241-011(MS)	295844	5.09	245137	6.73	116672	8.02								
2M162453.D AD28241-011(MSD)	333027	5.09	274735	6.73	132763	8.02								
2M162454.D AD28241-011	365916	5.09	308487	6.73	147730	8.02								
2M162455.D BLK	344423	5.09	291290	6.73	139170	8.02								
2M162456.D AD28241-004	320719	5.09	270869	6.73	134422	8.02								
2M162457.D AD28241-012	325696	5.09	274437	6.73	131034	8.02								
2M162458.D AD28261-002(80uL)	336144	5.09	287980	6.73	151277	8.02								
2M162459.D AD28247-010(MS)	324512	5.09	270852	6.73	130350	8.02								
2M162460.D AD28247-010(MSD)	341902	5.09	285537	6.73	132260	8.02								
2M162461.D BLK	359224	5.09	306905	6.73	138441	8.02								
2M162462.D AD28281-008	319525	5.09	272329	6.73	128224	8.02								
2M162463.D AD28281-023	315701	5.09	272471	6.73	126682	8.02								
2M162464.D AD28258-016	314438	5.09	265525	6.73	125386	8.02								
2M162465.D AD28247-001	357801	5.09	300093	6.73	141105	8.02								
2M162466.D 28302-004	292867	5.09	245385	6.73	116933	8.02								
2M162467.D 28302-002	295676	5.09	252199	6.73	118040	8.02								
2M162468.D AD28302-001	292444	5.09	250616	6.73	118246	8.02								
2M162469.D AD28258-012	315919	5.09	268294	6.73	125370	8.02								
2M162470.D AD28258-013	315164	5.09	266969	6.73	123746	8.02								
2M162471.D AD28258-014	308583	5.09	259886	6.73	122002	8.02								
2M162472.D AD28258-015	304432	5.09	260770	6.73	130732	8.02								
2M162473.D AD28281-012	307175	5.09	262349	6.73	117986	8.02								
2M162474.D AD28281-013	293112	5.09	248616	6.73	112364	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162440.D Method: EPA 8260D

Analysis Date/Time: 01/13/22 11:15

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	285132	5.09	237728	6.73	114862	8.02								
Eval File Area Limit:	142566-570264		118864-475456		57431-229724									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162475.D AD28281-014	288993	5.09	243204	6.73	106253	8.02								
2M162476.D AD28281-015	280228	5.09	236949	6.73	101075	8.02								
2M162477.D BLK	288082	5.09	242234	6.73	105525	8.02								
2M162478.D AD28263-001	276314	5.09	232598	6.73	103809	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2011202 0177

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162686.D Method: EPA 8260D

Analysis Date/Time: 01/18/22 15:54

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	425674	5.09	372640	6.73	183074	8.02								
Eval File Area Limit:	212837-851348		186320-745280		91537-366148									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162682.D CAL @ 0.5PPB	430038	5.09	371236	6.73	178462	8.02								
2M162683.D CAL @ 1PPB	426661	5.09	374031	6.73	168566	8.02								
2M162684.D CAL @ 5PPB	484186	5.09	417542	6.73	199543	8.02								
2M162685.D CAL @ 10PPB	421915	5.09	364752	6.73	180466	8.02								
2M162686.D CAL @ 20PPB	425674	5.09	372640	6.73	183074	8.02								
2M162688.D CAL @ 50PPB	425682	5.09	375648	6.73	187202	8.02								
2M162690.D CAL @ 100PPB	414706	5.09	368466	6.73	171703	8.02								
2M162692.D CAL @ 250PPB	398168	5.09	369953	6.73	183583	8.02								
2M162694.D CAL @ 500PPB	395975	5.09	372729	6.73	190668	8.02								
2M162695.D BLK	432461	5.09	373163	6.73	185843	8.02								
2M162699.D ICV	419238	5.09	364019	6.73	182263	8.02								
2M162700.D STD	469502	5.09	417773	6.73	206020	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162741.D Method: EPA 8260D

Analysis Date/Time: 01/19/22 10:07

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	407150	5.09	357157	6.73	179513	8.02								
Eval File Area Limit:	203575-814300		178578-714314		89756-359026									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162743.D HCL	475070	5.09	416333	6.73	203336	8.02								
2M162744.D DI	436860	5.09	380539	6.73	175287	8.02								
2M162745.D DAILY BLANK	405590	5.09	357890	6.73	180700	8.02								
2M162746.D DAILY BLANK	424419	5.09	380607	6.73	178332	8.02								
2M162747.D AD28258-009	434441	5.09	383423	6.73	186346	8.02								
2M162748.D AD28258-010	437012	5.09	390340	6.73	194830	8.02								
2M162749.D 28290-008	465047	5.09	410685	6.73	199496	8.02								
2M162750.D AD28258-011	436825	5.09	355476	6.73	193401	8.02								
2M162751.D MBS99325	393024	5.09	350558	6.73	176745	8.02								
2M162752.D MBS99326	411285	5.09	347120	6.73	171376	8.02								
2M162753.D BLK	482352	5.09	420499	6.73	209077	8.02								
2M162754.D AD28301-001(5X)	415558	5.09	366708	6.73	180231	8.02								
2M162755.D AD28294-010	417089	5.09	376205	6.73	183738	8.02								
2M162756.D AD28294-002(10X)	393653	5.09	361511	6.73	173360	8.02								
2M162757.D AD28294-012(5X)	413566	5.09	370758	6.73	182572	8.02								
2M162758.D AD28294-001(10X)	416542	5.09	376651	6.73	182830	8.02								
2M162759.D AD28386-001	398726	5.09	357172	6.73	175781	8.02								
2M162760.D AD28294-012(5X)	415251	5.09	373796	6.73	183113	8.02								
2M162761.D AD28294-002(50X)	413968	5.09	361885	6.73	175523	8.02								
2M162762.D AD28320-008	437992	5.08	388903	6.73	212626	8.02								
2M162763.D AD28258-010(MS)	410831	5.09	360421	6.73	179901	8.01								
2M162764.D AD28258-010(MSD)	452039	5.09	401769	6.73	206183	8.02								
2M162765.D BLK	443404	5.09	382948	6.73	197132	8.02								
2M162766.D AD28320-002	434275	5.08	391709	6.73	209441	8.02								
2M162767.D AD28320-003(400uL)	422096	5.09	360852	6.73	233220	8.02								
2M162768.D AD28320-004(80uL)	493679	5.09	437274	6.73	220574	8.02								
2M162769.D AD28320-003(80uL)	456700	5.09	409879	6.73	209148	8.02								
2M162770.D AD28320-006(400uL)	433946	5.09	387602	6.73	224614	8.02								
2M162771.D AD28386-001(MS)	480831	5.09	417003	6.73	206233	8.02								
2M162772.D AD28386-001(MSD)	449324	5.09	395747	6.73	202338	8.02								
2M162773.D AD28330-005	461412	5.09	414809	6.73	207268	8.02								
2M162774.D AD28330-004	519118	5.09	428232	6.73	224852	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M162741.D Method: EPA 8260D

Analysis Date/Time: 01/19/22 10:07

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	407150	5.09	357157	6.73	179513	8.02								
Eval File Area Limit:	203575-814300		178578-714314		89756-359026									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File Sample														
2M162775.D AD28320-004(400uL)	418525	5.09	352706	6.73	218671	8.02								
2M162776.D AD28391-001	454521	5.08	394299	6.73	193030	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-001
Client Id: TMW-015
Data File: 10M89147.D
Analysis Date: 01/13/22 19:35
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	50-32-8	Benzo[a]pyrene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
122-66-7	1,2-Diphenylhydrazine	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
123-91-1	1,4-Dioxane	0.56	U	207-08-9	Benzo[k]fluoranthene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	100-51-6	Benzyl alcohol	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.56	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.61	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.76	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	1.2	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	62-75-9	N-Nitrosodimethylamine	2.2	U
98-86-2	Acetophenone	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.71	U
120-12-7	Anthracene	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
1912-24-9	Atrazine	2.2	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.2	U	85-01-8	Phenanthrene	2.2	U
92-87-5	Benzidine	11	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD28258-001 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89147.D Sam Mult : 1 Vial# : 14 Qt On : 01/14/22 07:59
Acq On : 01/13/22 19:35 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.574	96	64432	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.794	152	124247	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	461736	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	229421	40.00	ng	-0.01
77) Phenanthrene-d10	9.666	188	426550	40.00	ng	-0.01
91) Chrysene-d12	12.709	240	352101	40.00	ng	-0.02
103) Perylene-d12	14.319	264	375308	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	215867	57.83	ng	-0.02
Spiked Amount 100.000			Recovery = 57.83%			
16) Phenol-d5	5.467	99	185286	42.03	ng	-0.01
Spiked Amount 100.000			Recovery = 42.03%			
32) Nitrobenzene-d5	6.238	128	82524	46.62	ng	-0.01
Spiked Amount 50.000			Recovery = 93.24%			
55) 2-Fluorobiphenyl	7.628	172	375608	47.01	ng	0.00
Spiked Amount 50.000			Recovery = 94.02%			
80) 2,4,6-Tribromophenol	8.949	330	93062	89.08	ng	-0.01
Spiked Amount 100.000			Recovery = 89.08%			
94) Terphenyl-d14	11.469	244	316678	54.12	ng	-0.01
Spiked Amount 50.000			Recovery = 108.24%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

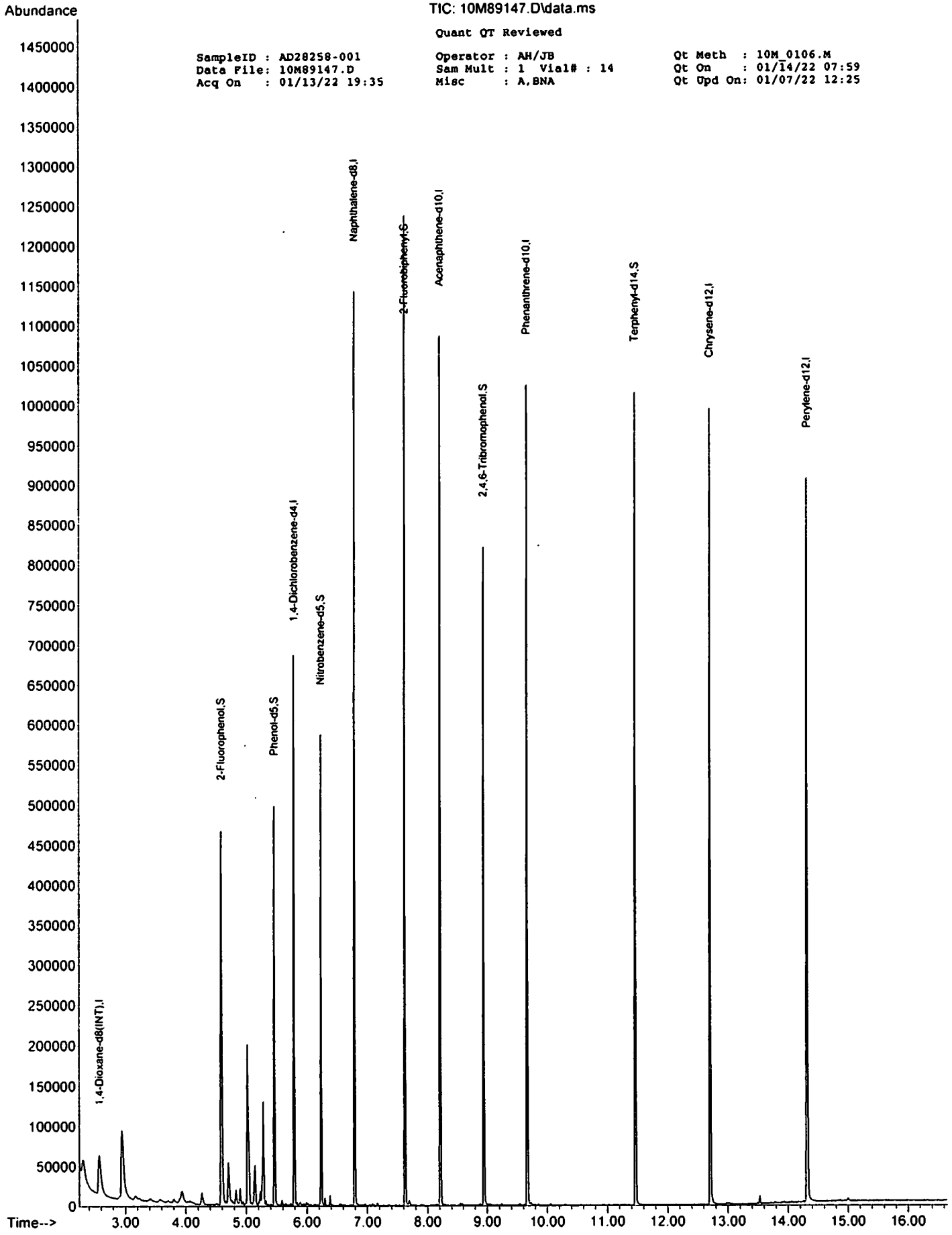
TIC: 10M89147.D\data.ms

Quant QT Reviewed

SampleID : AD28258-001
Data File: 10M89147.D
Acq On : 01/13/22 19:35

Operator : AH/JB
Sam Mult : 1 Vial# : 14
Misc : A,BNA

Qt Meth : 10M_0106.M
Qt On : 01/14/22 07:59
Qt Upd On: 01/07/22 12:25



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-002(R)
Client Id: TMW-016
Data File: 9M110742.D
Analysis Date: 01/16/22 19:32
Date Rec/Extracted: 01/12/22-01/15/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	50-32-8	Benzo[a]pyrene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
122-66-7	1,2-Diphenylhydrazine	2.1	U	191-24-2	Benzo[g,h,i]perylene	0.89	U
123-91-1	1,4-Dioxane	0.53	U	207-08-9	Benzo[k]fluoranthene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	100-51-6	Benzyl alcohol	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.53	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.58	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	132-64-9	Dibenzofuran	0.72	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	**3&4-Methylphenol**	**0.53**	**0.76**	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	91-20-3	Naphthalene	0.53	U
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	62-75-9	N-Nitrosodimethylamine	2.1	U
98-86-2	Acetophenone	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.68	U
120-12-7	Anthracene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
1912-24-9	Atrazine	2.1	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.1	U	85-01-8	Phenanthrene	2.1	U
92-87-5	Benzidine	10	U	108-95-2	Phenol	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U

Worksheet #: 625758

Total Target Concentration 0.76

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

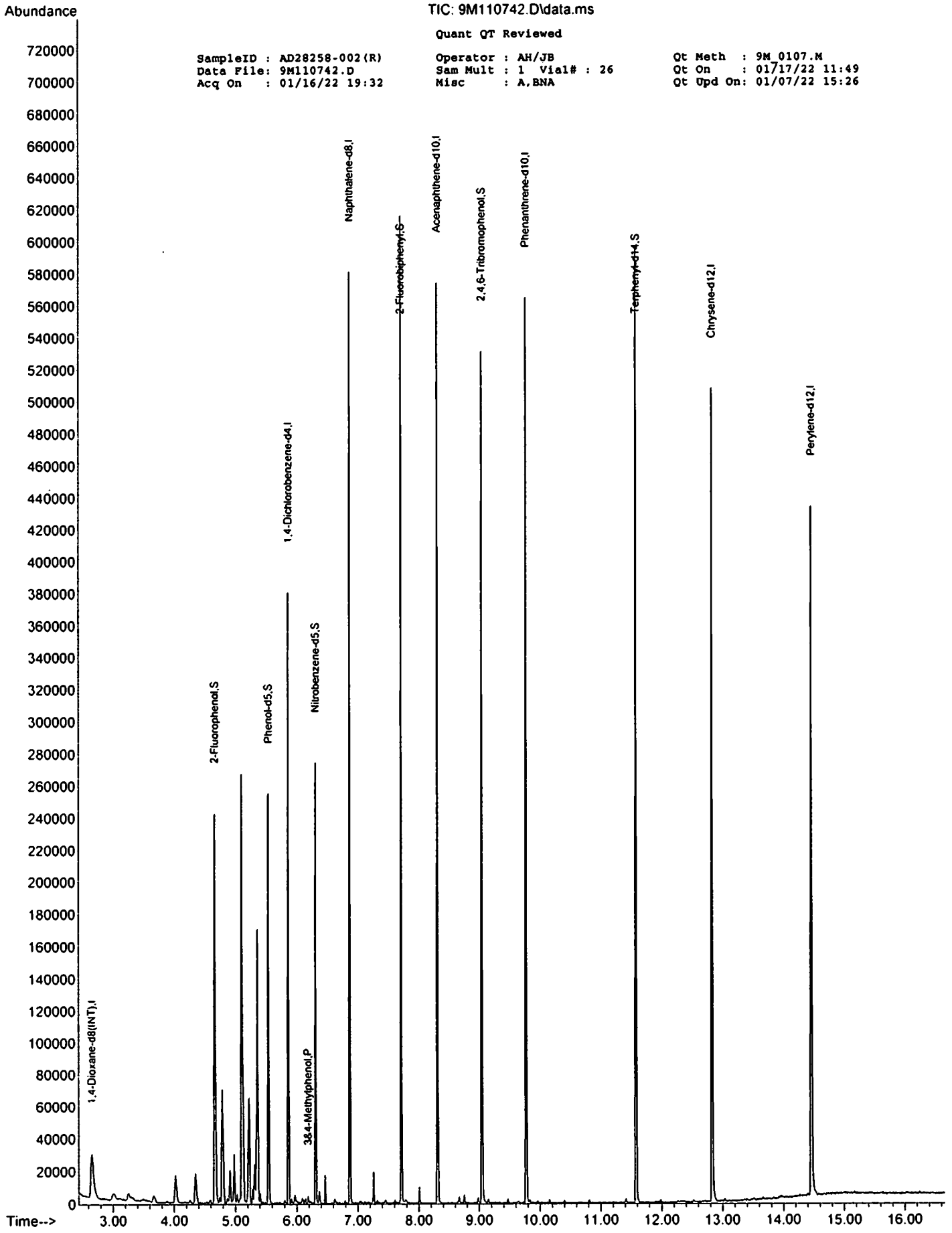
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD28258-002(R) Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110742.D Sam Mult : 1 Vial# : 26 Qt On : 01/17/22 11:49
Acq On : 01/16/22 19:32 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-16-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.655	96	30840	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.866	152	51686	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	201819	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	104106	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	198095	40.00	ng	0.00
91) Chrysene-d12	12.830	240	180188	40.00	ng	0.00
103) Perylene-d12	14.460	264	190479	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.666	112	89905	45.38	ng	0.00
Spiked Amount 100.000			Recovery = 45.38%			
16) Phenol-d5	5.543	99	86917	34.45	ng	0.00
Spiked Amount 100.000			Recovery = 34.45%			
32) Nitrobenzene-d5	6.313	128	32308	43.29	ng	0.00
Spiked Amount 50.000			Recovery = 86.58%			
55) 2-Fluorobiphenyl	7.713	172	161818	43.79	ng	0.00
Spiked Amount 50.000			Recovery = 87.58%			
80) 2,4,6-Tribromophenol	9.048	330	48539	93.51	ng	0.00
Spiked Amount 100.000			Recovery = 93.51%			
94) Terphenyl-d14	11.583	244	177006	57.10	ng	0.00
Spiked Amount 50.000			Recovery = 114.20%			
Target Compounds						Qvalue
30) 3&4-Methylphenol	6.184	108	1122	0.7212	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110742.D\data.ms
Quant QT Reviewed
SampleID : AD28258-002(R)
Data File: 9M110742.D
Acq On : 01/16/22 19:32
Operator : AH/JB
Sam Mult : 1 Vial# : 26
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/17/22 11:49
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
3&4-Methylphenol,P
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-003
Client Id: TMW-017
Data File: 10M89149.D
Analysis Date: 01/13/22 20:19
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	50-32-8	Benzo[a]pyrene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
122-66-7	1,2-Diphenylhydrazine	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
123-91-1	1,4-Dioxane	0.53	U	207-08-9	Benzo[k]fluoranthene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	100-51-6	Benzyl alcohol	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.53	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.58	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	132-64-9	Dibenzofuran	0.72	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.53	U	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	91-20-3	Naphthalene	0.53	U
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	62-75-9	N-Nitrosodimethylamine	2.1	U
98-86-2	Acetophenone	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.68	U
120-12-7	Anthracene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
1912-24-9	Atrazine	2.1	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.1	U	85-01-8	Phenanthrene	2.1	U
92-87-5	Benzidine	10	U	**108-95-2**	**Phenol**	**2.1**	**4.6**
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U

Worksheet #: 625758 *Total Target Concentration* 4.6 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

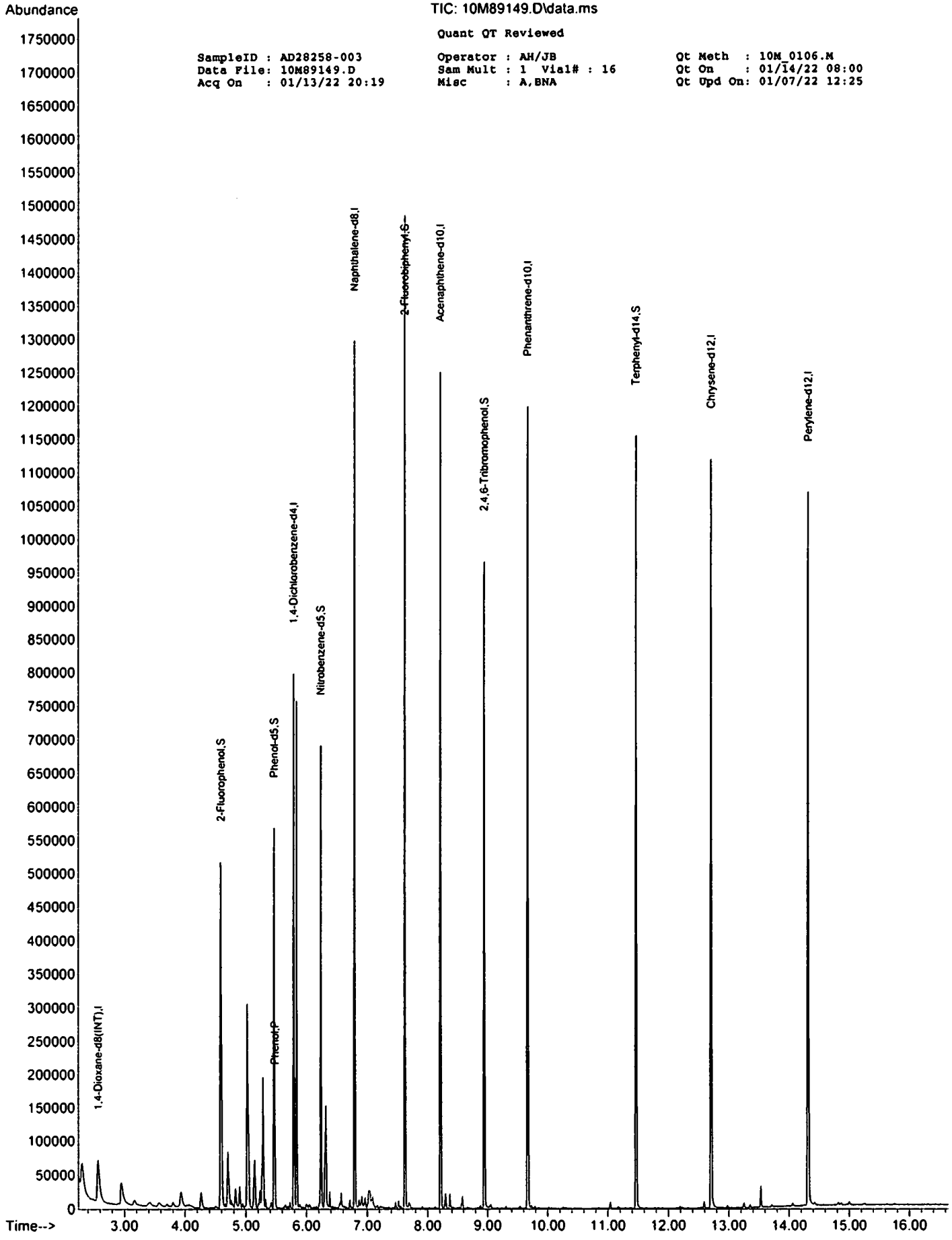
Quantitation Report (QT Reviewed)

SampleID : AD28258-003 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89149.D Sam Mult : 1 Vial# : 16 Qt On : 01/14/22 08:00
Acq On : 01/13/22 20:19 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.569	96	69400	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.788	152	138660	40.00	ng	-0.01
31) Naphthalene-d8	6.794	136	526066	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	261005	40.00	ng	-0.01
77) Phenanthrene-d10	9.672	188	496425	40.00	ng	0.00
91) Chrysene-d12	12.710	240	410359	40.00	ng	-0.02
103) Perylene-d12	14.320	264	442697	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	238457	59.31	ng	-0.02
Spiked Amount 100.000			Recovery = 59.31%			
16) Phenol-d5	5.468	99	201855	42.51	ng	-0.01
Spiked Amount 100.000			Recovery = 42.51%			
32) Nitrobenzene-d5	6.238	128	100148	49.66	ng	-0.01
Spiked Amount 50.000			Recovery = 99.32%			
55) 2-Fluorobiphenyl	7.628	172	447993	49.29	ng	0.00
Spiked Amount 50.000			Recovery = 98.58%			
80) 2,4,6-Tribromophenol	8.950	330	112789	92.56	ng	-0.01
Spiked Amount 100.000			Recovery = 92.56%			
94) Terphenyl-d14	11.469	244	362881	53.21	ng	-0.01
Spiked Amount 50.000			Recovery = 106.42%			
Target Compounds						Qvalue
17) Phenol	5.478	94	24467	4.3895	ng	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89149.D\data.ms
Quant QT Reviewed
SampleID : AD28258-003
Data File: 10M89149.D
Acq On : 01/13/22 20:19
Operator : AH/JB
Sam Mult : 1 Vial# : 16
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 08:00
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
Phenol.P
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-004
Client Id: TMW-018
Data File: 10M89150.D
Analysis Date: 01/13/22 20:41
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 850ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.2	U	50-32-8	Benzo[a]pyrene	1.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	205-99-2	Benzo[b]fluoranthene	1.2	U
122-66-7	1,2-Diphenylhydrazine	1.2	U	191-24-2	Benzo[g,h,i]perylene	1.2	U
123-91-1	1,4-Dioxane	0.29	U	207-08-9	Benzo[k]fluoranthene	1.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.2	U	100-51-6	Benzyl alcohol	1.2	U
95-95-4	2,4,5-Trichlorophenol	1.2	U	111-91-1	bis(2-Chloroethoxy)methan	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U	111-44-4	bis(2-Chloroethyl)ether	0.29	U
120-83-2	2,4-Dichlorophenol	0.29	U	108-60-1	bis(2-chloroisopropyl)ether	1.2	U
105-67-9	2,4-Dimethylphenol	0.32	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
51-28-5	2,4-Dinitrophenol	5.9	U	85-68-7	Butylbenzylphthalate	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U	105-60-2	Caprolactam	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U	86-74-8	Carbazole	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U	218-01-9	Chrysene	1.2	U
95-57-8	2-Chlorophenol	1.2	U	53-70-3	Dibenzo[a,h]anthracene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U	132-64-9	Dibenzofuran	0.40	U
95-48-7	2-Methylphenol	0.29	U	84-66-2	Diethylphthalate	1.2	U
88-74-4	2-Nitroaniline	1.2	U	131-11-3	Dimethylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U	84-74-2	Di-n-butylphthalate	0.64	U
106-44-5	**3&4-Methylphenol**	**0.29**	**0.62**	117-84-0	Di-n-octylphthalate	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U	206-44-0	Fluoranthene	1.2	U
99-09-2	3-Nitroaniline	1.2	U	86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	5.9	U	118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U	87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U	77-47-4	Hexachlorocyclopentadiene	1.2	U
106-47-8	4-Chloroaniline	0.29	U	67-72-1	Hexachloroethane	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
100-01-6	4-Nitroaniline	1.2	U	78-59-1	Isophorone	1.2	U
100-02-7	4-Nitrophenol	1.2	U	91-20-3	Naphthalene	0.29	U
83-32-9	Acenaphthene	1.2	U	98-95-3	Nitrobenzene	1.2	U
208-96-8	Acenaphthylene	1.2	U	62-75-9	N-Nitrosodimethylamine	1.2	U
98-86-2	Acetophenone	1.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.38	U
120-12-7	Anthracene	1.2	U	86-30-6	n-Nitrosodiphenylamine	1.2	U
1912-24-9	Atrazine	1.2	U	87-86-5	Pentachlorophenol	5.9	U
100-52-7	Benzaldehyde	1.2	U	85-01-8	Phenanthrene	1.2	U
92-87-5	Benzidine	5.8	U	**108-95-2**	**Phenol**	**1.2**	**5.2**
56-55-3	Benzo[a]anthracene	1.2	U	129-00-0	Pyrene	1.2	U

Worksheet #: 625758

Total Target Concentration 5.8

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

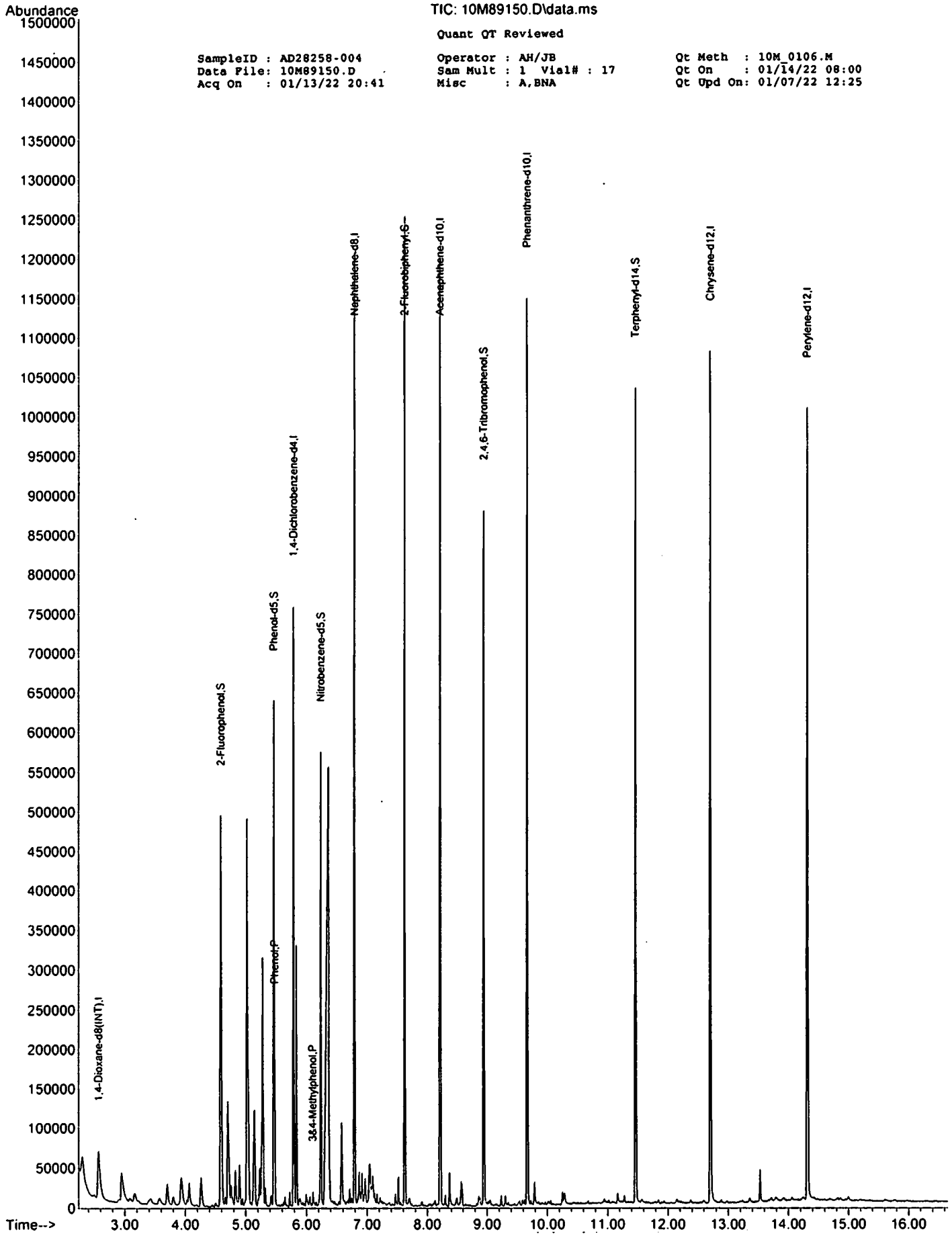
Quantitation Report (QT Reviewed)

SampleID : AD28258-004 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89150.D Sam Mult : 1 Vial# : 17 Qt On : 01/14/22 08:00
Acq On : 01/13/22 20:41 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.568	96	66605	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.788	152	130525	40.00	ng	-0.01
31) Naphthalene-d8	6.794	136	495138	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	248713	40.00	ng	-0.01
77) Phenanthrene-d10	9.666	188	468836	40.00	ng	-0.01
91) Chrysene-d12	12.709	240	389048	40.00	ng	-0.02
103) Perylene-d12	14.319	264	412564	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	232192	60.17	ng	-0.02
Spiked Amount 100.000			Recovery = 60.17%			
16) Phenol-d5	5.467	99	223045	48.94	ng	-0.01
Spiked Amount 100.000			Recovery = 48.94%			
32) Nitrobenzene-d5	6.238	128	83702	44.10	ng	-0.01
Spiked Amount 50.000			Recovery = 88.20%			
55) 2-Fluorobiphenyl	7.628	172	379265	43.79	ng	0.00
Spiked Amount 50.000			Recovery = 87.58%			
80) 2,4,6-Tribromophenol	8.949	330	99945	87.15	ng	-0.01
Spiked Amount 100.000			Recovery = 87.15%			
94) Terphenyl-d14	11.469	244	316810	49.00	ng	-0.01
Spiked Amount 50.000			Recovery = 98.00%			
Target Compounds						Qvalue
17) Phenol	5.478	94	47383	8.8575	ng	82
30) 3&4-Methylphenol	6.104	108	3802	1.0530	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89150.D\data.ms
Quant QT Reviewed
SampleID : AD28258-004
Data File: 10M89150.D
Acq On : 01/13/22 20:41
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 08:00
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
Phenol,P
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
3&4-Methylphenol,P
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-005
Client Id: TMW-014D
Data File: 10M89151.D
Analysis Date: 01/13/22 21:04
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

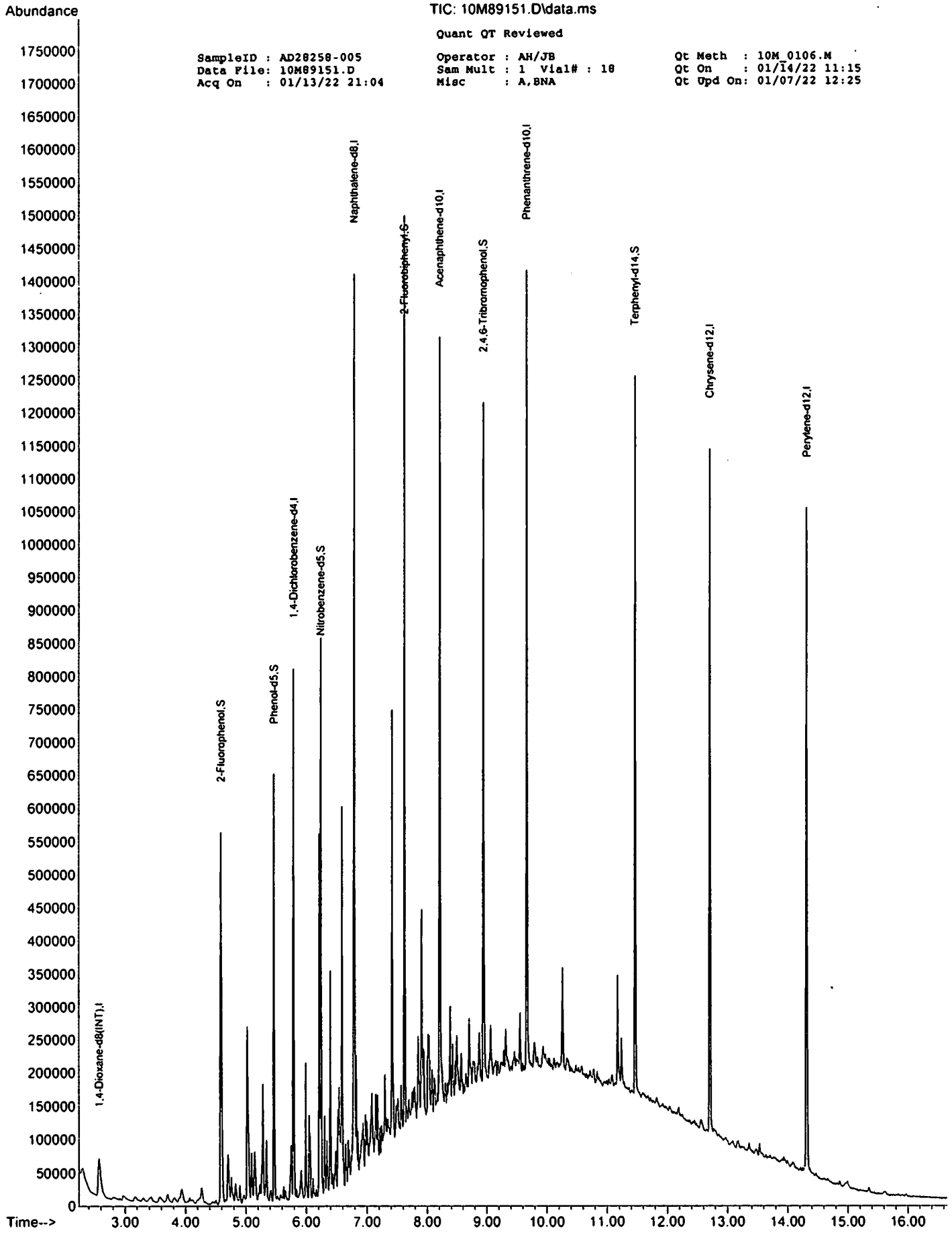
Quantitation Report (QT Reviewed)

SampleID : AD28258-005 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89151.D Sam Mult : 1 Vial# : 18 Qt On : 01/14/22 11:15
Acq On : 01/13/22 21:04 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.574	96	73560	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.794	152	142007	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	520167	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	254946	40.00	ng	-0.01
77) Phenanthrene-d10	9.671	188	470528	40.00	ng	0.00
91) Chrysene-d12	12.709	240	393407	40.00	ng	-0.02
103) Perylene-d12	14.319	264	435369	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	257731	60.48	ng	-0.02
Spiked Amount 100.000			Recovery = 60.48%			
16) Phenol-d5	5.467	99	235967	46.88	ng	-0.01
Spiked Amount 100.000			Recovery = 46.88%			
32) Nitrobenzene-d5	6.238	128	99596	49.95	ng	-0.01
Spiked Amount 50.000			Recovery = 99.90%			
55) 2-Fluorobiphenyl	7.628	172	408566	46.02	ng	0.00
Spiked Amount 50.000			Recovery = 92.04%			
80) 2,4,6-Tribromophenol	8.949	330	111887	96.62	ng	-0.01
Spiked Amount 100.000			Recovery = 96.62%			
94) Terphenyl-d14	11.469	244	342229	52.34	ng	-0.01
Spiked Amount 50.000			Recovery = 104.68%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89151.D\data.ms
Quant QT Reviewed
SampleID : AD28258-005
Data File: 10M89151.D
Acq On : 01/13/22 21:04
Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 11:15
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-006
Client Id: TMW-14S
Data File: 10M89152.D
Analysis Date: 01/13/22 21:26
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	50-32-8	Benzo[a]pyrene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
122-66-7	1,2-Diphenylhydrazine	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
123-91-1	1,4-Dioxane	0.56	U	207-08-9	Benzo[k]fluoranthene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	100-51-6	Benzyl alcohol	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.56	U
120-83-2	2,4-Dichlorophenol	0.56	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.61	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.76	U
95-48-7	2-Methylphenol	0.56	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	1.2	U
106-44-5	3&4-Methylphenol	0.56	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.56	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.56	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	62-75-9	N-Nitrosodimethylamine	2.2	U
98-86-2	Acetophenone	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.71	U
120-12-7	Anthracene	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
1912-24-9	Atrazine	2.2	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.2	U	85-01-8	Phenanthrene	2.2	U
92-87-5	Benzidine	11	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

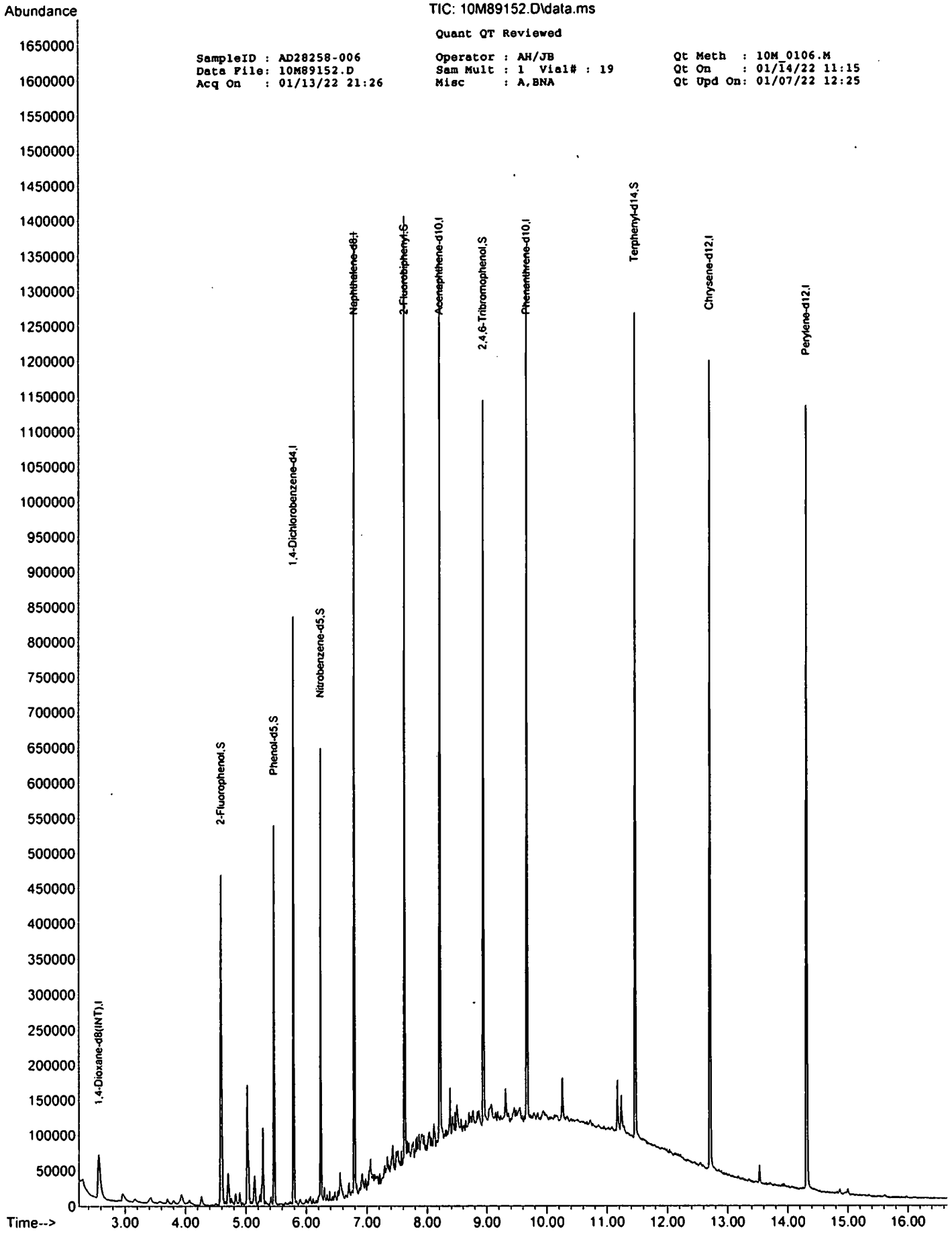
Quantitation Report (QT Reviewed)

SampleID : AD28258-006 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89152.D Sam Mult : 1 Vial# : 19 Qt On : 01/14/22 11:15
Acq On : 01/13/22 21:26 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.563	96	70739	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.788	152	144096	40.00	ng	-0.01
31) Naphthalene-d8	6.794	136	551245	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	267543	40.00	ng	-0.01
77) Phenanthrene-d10	9.672	188	495939	40.00	ng	0.00
91) Chrysene-d12	12.710	240	420235	40.00	ng	-0.02
103) Perylene-d12	14.319	264	463110	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	218241	53.25	ng	-0.02
Spiked Amount 100.000			Recovery = 53.25%			
16) Phenol-d5	5.467	99	201554	41.64	ng	-0.01
Spiked Amount 100.000			Recovery = 41.64%			
32) Nitrobenzene-d5	6.238	128	92873	43.95	ng	-0.01
Spiked Amount 50.000			Recovery = 87.90%			
55) 2-Fluorobiphenyl	7.628	172	414907	44.53	ng	0.00
Spiked Amount 50.000			Recovery = 89.06%			
80) 2,4,6-Tribromophenol	8.949	330	116334	95.39	ng	-0.01
Spiked Amount 100.000			Recovery = 95.39%			
94) Terphenyl-d14	11.469	244	359012	51.40	ng	-0.01
Spiked Amount 50.000			Recovery = 102.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89152.D\data.ms
Quant QT Reviewed
SampleID : AD28258-006
Data File: 10M89152.D
Acq On : 01/13/22 21:26
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 11:15
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-007
Client Id: TMW-012D
Data File: 10M89153.D
Analysis Date: 01/13/22 21:48
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 875ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.1	U	50-32-8	Benzo[a]pyrene	1.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	205-99-2	Benzo[b]fluoranthene	1.1	U
122-66-7	1,2-Diphenylhydrazine	1.1	U	191-24-2	Benzo[g,h,i]perylene	1.1	U
123-91-1	1,4-Dioxane	0.29	U	207-08-9	Benzo[k]fluoranthene	1.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.1	U	100-51-6	Benzyl alcohol	1.1	U
95-95-4	2,4,5-Trichlorophenol	1.1	U	111-91-1	bis(2-Chloroethoxy)methan	1.1	U
88-06-2	2,4,6-Trichlorophenol	1.1	U	111-44-4	bis(2-Chloroethyl)ether	0.29	U
120-83-2	2,4-Dichlorophenol	0.29	U	108-60-1	bis(2-chloroisopropyl)ether	1.1	U
105-67-9	2,4-Dimethylphenol	0.32	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.1	U
51-28-5	2,4-Dinitrophenol	5.7	U	85-68-7	Butylbenzylphthalate	1.1	U
121-14-2	2,4-Dinitrotoluene	1.1	U	105-60-2	Caprolactam	1.1	U
606-20-2	2,6-Dinitrotoluene	1.1	U	86-74-8	Carbazole	1.1	U
91-58-7	2-Chloronaphthalene	1.1	U	218-01-9	Chrysene	1.1	U
95-57-8	2-Chlorophenol	1.1	U	53-70-3	Dibenzo[a,h]anthracene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U	132-64-9	Dibenzofuran	0.39	U
95-48-7	2-Methylphenol	0.29	U	84-66-2	Diethylphthalate	1.1	U
88-74-4	2-Nitroaniline	1.1	U	131-11-3	Dimethylphthalate	1.1	U
88-75-5	2-Nitrophenol	1.1	U	84-74-2	Di-n-butylphthalate	0.62	U
106-44-5	3&4-Methylphenol	0.29	U	117-84-0	Di-n-octylphthalate	1.1	U
91-94-1	3,3'-Dichlorobenzidine	1.1	U	206-44-0	Fluoranthene	1.1	U
99-09-2	3-Nitroaniline	1.1	U	86-73-7	Fluorene	1.1	U
534-52-1	4,6-Dinitro-2-methylphenol	5.7	U	118-74-1	Hexachlorobenzene	1.1	U
101-55-3	4-Bromophenyl-phenylether	1.1	U	87-68-3	Hexachlorobutadiene	1.1	U
59-50-7	4-Chloro-3-methylphenol	1.1	U	77-47-4	Hexachlorocyclopentadiene	1.1	U
106-47-8	4-Chloroaniline	0.29	U	67-72-1	Hexachloroethane	1.1	U
7005-72-3	4-Chlorophenyl-phenylether	1.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.1	U
100-01-6	4-Nitroaniline	1.1	U	78-59-1	Isophorone	1.1	U
100-02-7	4-Nitrophenol	1.1	U	91-20-3	Naphthalene	0.29	U
83-32-9	Acenaphthene	1.1	U	98-95-3	Nitrobenzene	1.1	U
208-96-8	Acenaphthylene	1.1	U	62-75-9	N-Nitrosodimethylamine	1.1	U
98-86-2	Acetophenone	1.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.37	U
120-12-7	Anthracene	1.1	U	86-30-6	n-Nitrosodiphenylamine	1.1	U
1912-24-9	Atrazine	1.1	U	87-86-5	Pentachlorophenol	5.7	U
100-52-7	Benzaldehyde	1.1	U	85-01-8	Phenanthrene	1.1	U
92-87-5	Benzidine	5.7	U	108-95-2	Phenol	1.1	U
56-55-3	Benzo[a]anthracene	1.1	U	129-00-0	Pyrene	1.1	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

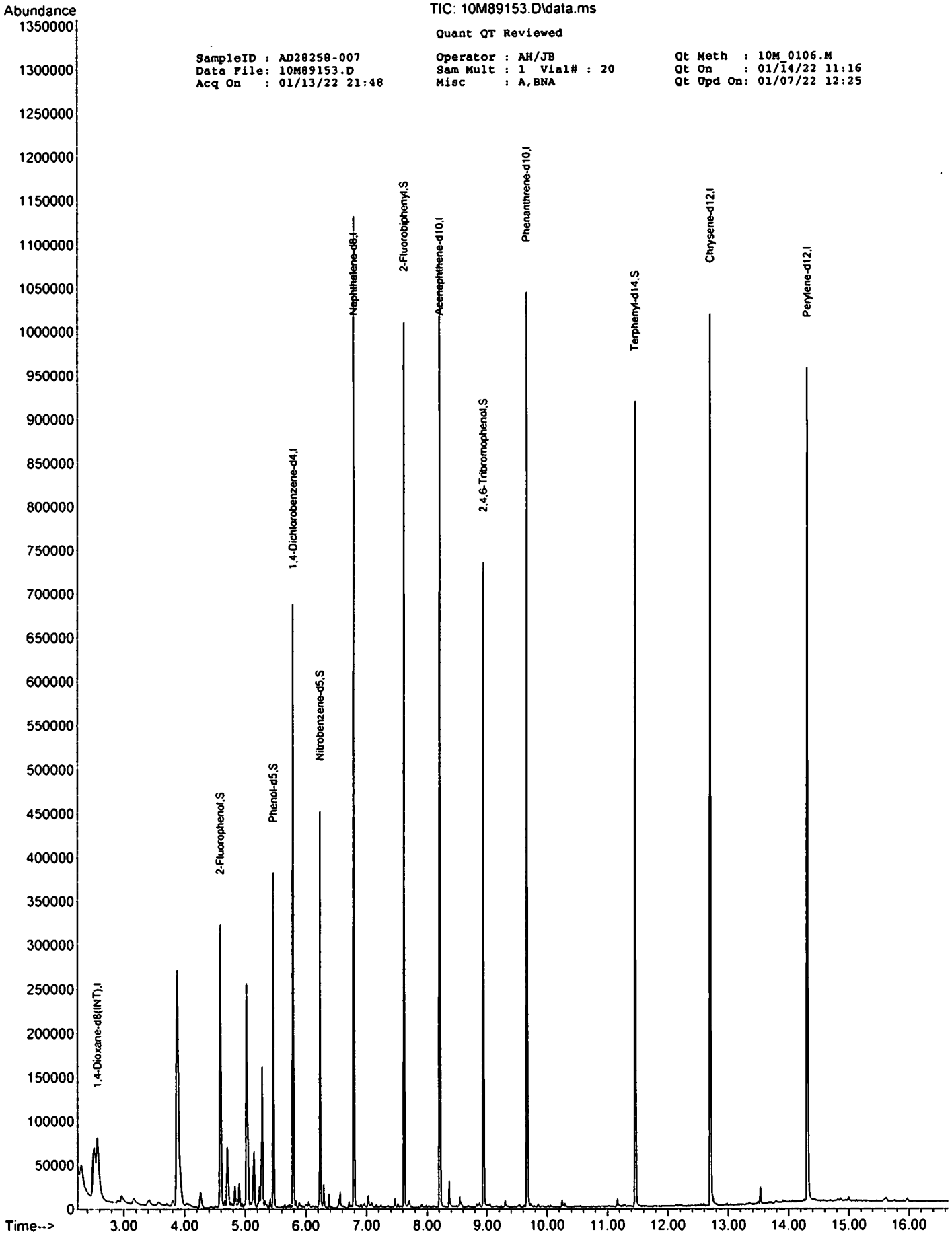
Quantitation Report (QT Reviewed)

SampleID : AD28258-007 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89153.D Sam Mult : 1 Vial# : 20 Qt On : 01/14/22 11:16
Acq On : 01/13/22 21:48 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.568	96	64696	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.794	152	121399	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	461404	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	231005	40.00	ng	-0.01
77) Phenanthrene-d10	9.666	188	429063	40.00	ng	-0.01
91) Chrysene-d12	12.709	240	363195	40.00	ng	-0.02
103) Perylene-d12	14.319	264	387004	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	147921	39.46	ng	-0.02
Spiked Amount 100.000			Recovery = 39.46%			
16) Phenol-d5	5.467	99	138209	31.22	ng	-0.01
Spiked Amount 100.000			Recovery = 31.22%			
32) Nitrobenzene-d5	6.238	128	64956	36.72	ng	-0.01
Spiked Amount 50.000			Recovery = 73.44%			
55) 2-Fluorobiphenyl	7.628	172	300094	37.30	ng	0.00
Spiked Amount 50.000			Recovery = 74.60%			
80) 2,4,6-Tribromophenol	8.949	330	86368	82.54	ng	-0.01
Spiked Amount 100.000			Recovery = 82.54%			
94) Terphenyl-d14	11.469	244	284301	47.10	ng	-0.01
Spiked Amount 50.000			Recovery = 94.20%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed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SampleID : AD28258-007
Data File: 10M89153.D
Acq On : 01/13/22 21:48
Operator : AH/JB
Sam Mult : 1 Vial# : 20
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 11:16
Qt Upd On: 01/07/22 12:25
Abundance
Time-->
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
Nitrobenzene-d5.S
1,4-Dichlorobenzene-d4.I
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-008
Client Id: TMW-012S
Data File: 10M89168.D
Analysis Date: 01/14/22 13:29
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

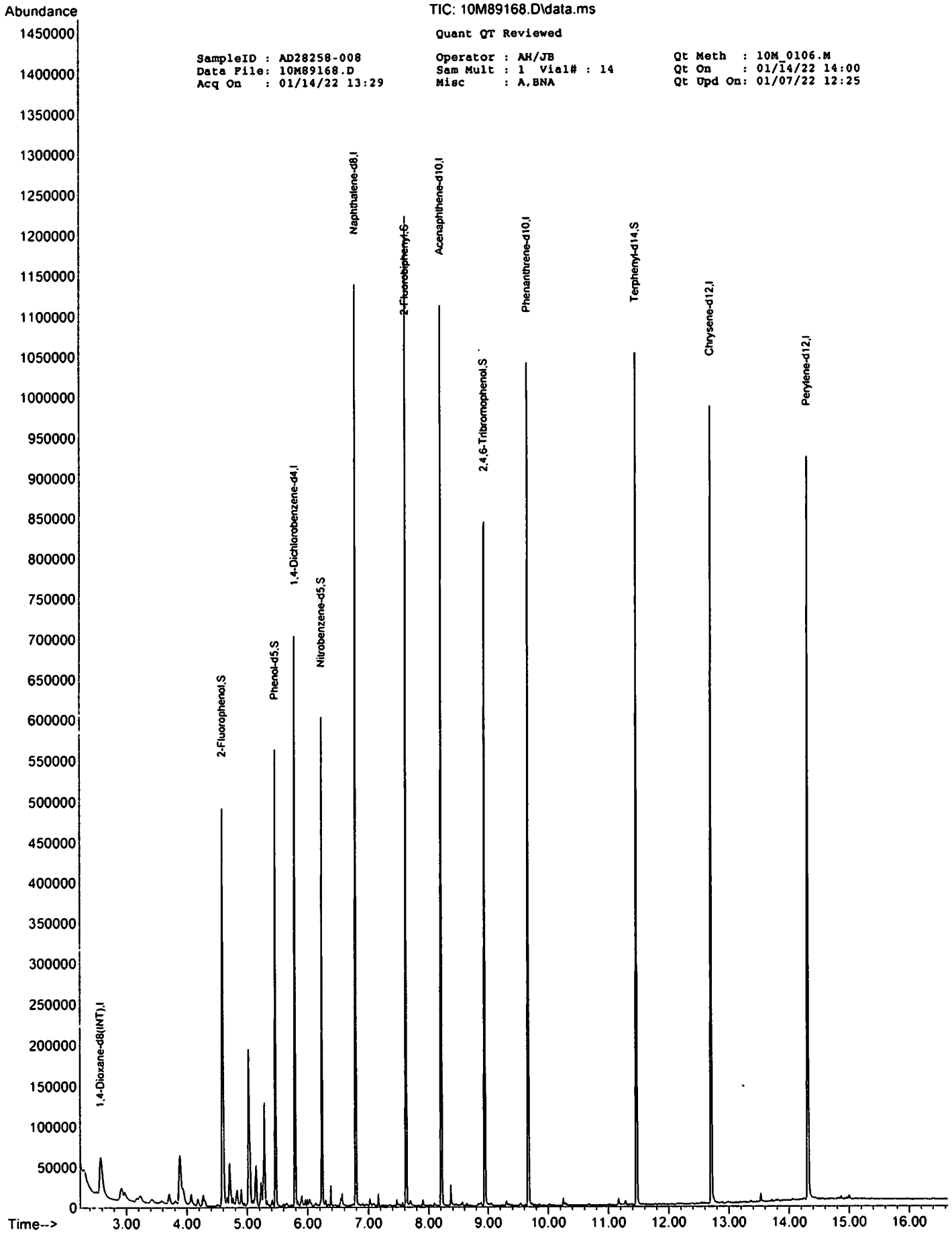
Quantitation Report (QT Reviewed)

SampleID : AD28258-008 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89168.D Sam Mult : 1 Vial# : 14 Qt On : 01/14/22 14:00
Acq On : 01/14/22 13:29 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.574	96	65932	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.794	152	126116	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	470876	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	229180	40.00	ng	-0.01
77) Phenanthrene-d10	9.666	188	424500	40.00	ng	-0.01
91) Chrysene-d12	12.710	240	354005	40.00	ng	-0.02
103) Perylene-d12	14.320	264	381464	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	231957	60.72	ng	-0.02
Spiked Amount 100.000			Recovery = 60.72%			
16) Phenol-d5	5.468	99	197852	43.86	ng	-0.01
Spiked Amount 100.000			Recovery = 43.86%			
32) Nitrobenzene-d5	6.238	128	87354	48.39	ng	-0.01
Spiked Amount 50.000			Recovery = 96.78%			
55) 2-Fluorobiphenyl	7.628	172	389898	48.85	ng	0.00
Spiked Amount 50.000			Recovery = 97.70%			
80) 2,4,6-Tribromophenol	8.950	330	100619	96.33	ng	-0.01
Spiked Amount 100.000			Recovery = 96.33%			
94) Terphenyl-d14	11.469	244	323904	55.05	ng	-0.01
Spiked Amount 50.000			Recovery = 110.10%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89168.D\data.ms
Quant QT Reviewed
SampleID : AD28258-008
Data File: 10M89168.D
Acq On : 01/14/22 13:29
Operator : AH/JB
Sam Mult : 1 Vial# : 14
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 14:00
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-009
Client Id: TMW-13D
Data File: 10M89160.D
Analysis Date: 01/14/22 10:31
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	50-32-8	Benzo[a]pyrene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
122-66-7	1,2-Diphenylhydrazine	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
123-91-1	1,4-Dioxane	0.53	U	207-08-9	Benzo[k]fluoranthene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	100-51-6	Benzyl alcohol	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.53	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.58	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	132-64-9	Dibenzofuran	0.72	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.53	U	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	91-20-3	Naphthalene	0.53	U
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	62-75-9	N-Nitrosodimethylamine	2.1	U
98-86-2	Acetophenone	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.68	U
120-12-7	Anthracene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
1912-24-9	Atrazine	2.1	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.1	U	85-01-8	Phenanthrene	2.1	U
92-87-5	Benzidine	10	U	108-95-2	Phenol	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

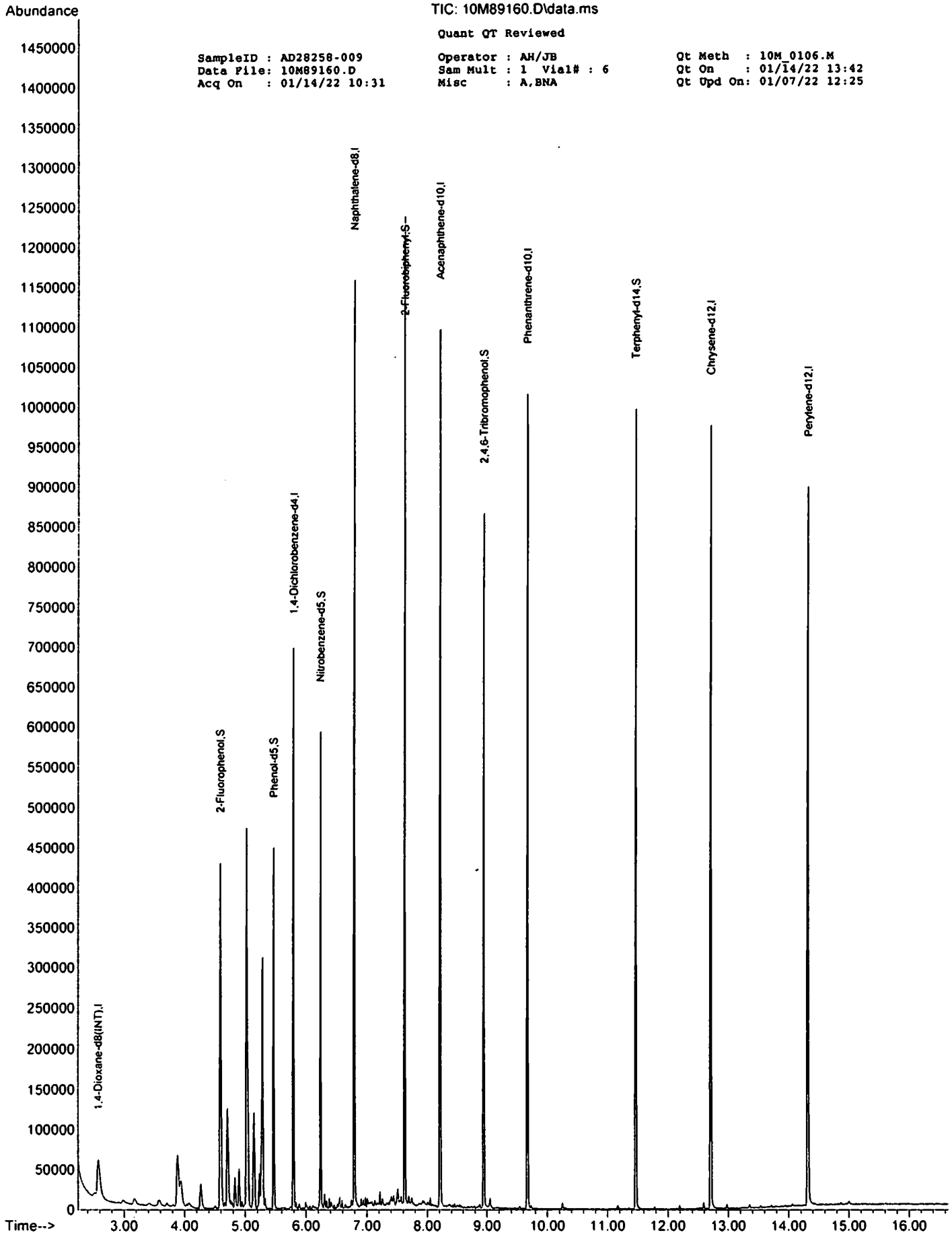
SampleID : AD28258-009 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89160.D Sam Mult : 1 Vial# : 6 Qt On : 01/14/22 13:42
Acq On : 01/14/22 10:31 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.574	96	64772	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.794	152	124301	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	469519	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	227305	40.00	ng	-0.01
77) Phenanthrene-d10	9.666	188	423139	40.00	ng	-0.01
91) Chrysene-d12	12.710	240	351884	40.00	ng	-0.02
103) Perylene-d12	14.319	264	384869	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	205945	54.88	ng	-0.02
Spiked Amount 100.000			Recovery = 54.88%			
16) Phenol-d5	5.467	99	161662	36.48	ng	-0.01
Spiked Amount 100.000			Recovery = 36.48%			
32) Nitrobenzene-d5	6.238	128	83491	46.39	ng	-0.01
Spiked Amount 50.000			Recovery = 92.78%			
55) 2-Fluorobiphenyl	7.628	172	384292	48.55	ng	0.00
Spiked Amount 50.000			Recovery = 97.10%			
80) 2,4,6-Tribromophenol	8.949	330	97314	93.63	ng	-0.01
Spiked Amount 100.000			Recovery = 93.63%			
94) Terphenyl-d14	11.469	244	316114	54.05	ng	-0.01
Spiked Amount 50.000			Recovery = 108.10%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89160.D\data.ms
Quant QT Reviewed
SampleID : AD28258-009
Data File: 10M89160.D
Acq On : 01/14/22 10:31
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 13:42
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-010
Client Id: TMW-13S
Data File: 10M89161.D
Analysis Date: 01/14/22 10:53
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 910ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.2	U	50-32-8	Benzo[a]pyrene	2.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	205-99-2	Benzo[b]fluoranthene	2.2	U
122-66-7	1,2-Diphenylhydrazine	2.2	U	191-24-2	Benzo[g,h,i]perylene	2.2	U
123-91-1	1,4-Dioxane	0.55	U	207-08-9	Benzo[k]fluoranthene	2.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.2	U	100-51-6	Benzyl alcohol	2.2	U
95-95-4	2,4,5-Trichlorophenol	2.2	U	111-91-1	bis(2-Chloroethoxy)methan	2.2	U
88-06-2	2,4,6-Trichlorophenol	2.2	U	111-44-4	bis(2-Chloroethyl)ether	0.55	U
120-83-2	2,4-Dichlorophenol	0.55	U	108-60-1	bis(2-chloroisopropyl)ether	2.2	U
105-67-9	2,4-Dimethylphenol	0.61	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.2	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.2	U
121-14-2	2,4-Dinitrotoluene	2.2	U	105-60-2	Caprolactam	2.2	U
606-20-2	2,6-Dinitrotoluene	2.2	U	86-74-8	Carbazole	2.2	U
91-58-7	2-Chloronaphthalene	2.2	U	218-01-9	Chrysene	2.2	U
95-57-8	2-Chlorophenol	2.2	U	53-70-3	Dibenzo[a,h]anthracene	2.2	U
91-57-6	2-Methylnaphthalene	2.2	U	132-64-9	Dibenzofuran	0.75	U
95-48-7	2-Methylphenol	0.55	U	84-66-2	Diethylphthalate	2.2	U
88-74-4	2-Nitroaniline	2.2	U	131-11-3	Dimethylphthalate	2.2	U
88-75-5	2-Nitrophenol	2.2	U	84-74-2	Di-n-butylphthalate	1.2	U
106-44-5	3&4-Methylphenol	0.55	U	117-84-0	Di-n-octylphthalate	2.2	U
91-94-1	3,3'-Dichlorobenzidine	2.2	U	206-44-0	Fluoranthene	2.2	U
99-09-2	3-Nitroaniline	2.2	U	86-73-7	Fluorene	2.2	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.2	U
101-55-3	4-Bromophenyl-phenylether	2.2	U	87-68-3	Hexachlorobutadiene	2.2	U
59-50-7	4-Chloro-3-methylphenol	2.2	U	77-47-4	Hexachlorocyclopentadiene	2.2	U
106-47-8	4-Chloroaniline	0.55	U	67-72-1	Hexachloroethane	2.2	U
7005-72-3	4-Chlorophenyl-phenylether	2.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.2	U
100-01-6	4-Nitroaniline	2.2	U	78-59-1	Isophorone	2.2	U
100-02-7	4-Nitrophenol	2.2	U	91-20-3	Naphthalene	0.55	U
83-32-9	Acenaphthene	2.2	U	98-95-3	Nitrobenzene	2.2	U
208-96-8	Acenaphthylene	2.2	U	62-75-9	N-Nitrosodimethylamine	2.2	U
98-86-2	Acetophenone	2.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.71	U
120-12-7	Anthracene	2.2	U	86-30-6	n-Nitrosodiphenylamine	2.2	U
1912-24-9	Atrazine	2.2	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.2	U	85-01-8	Phenanthrene	2.2	U
92-87-5	Benzidine	11	U	108-95-2	Phenol	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	129-00-0	Pyrene	2.2	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

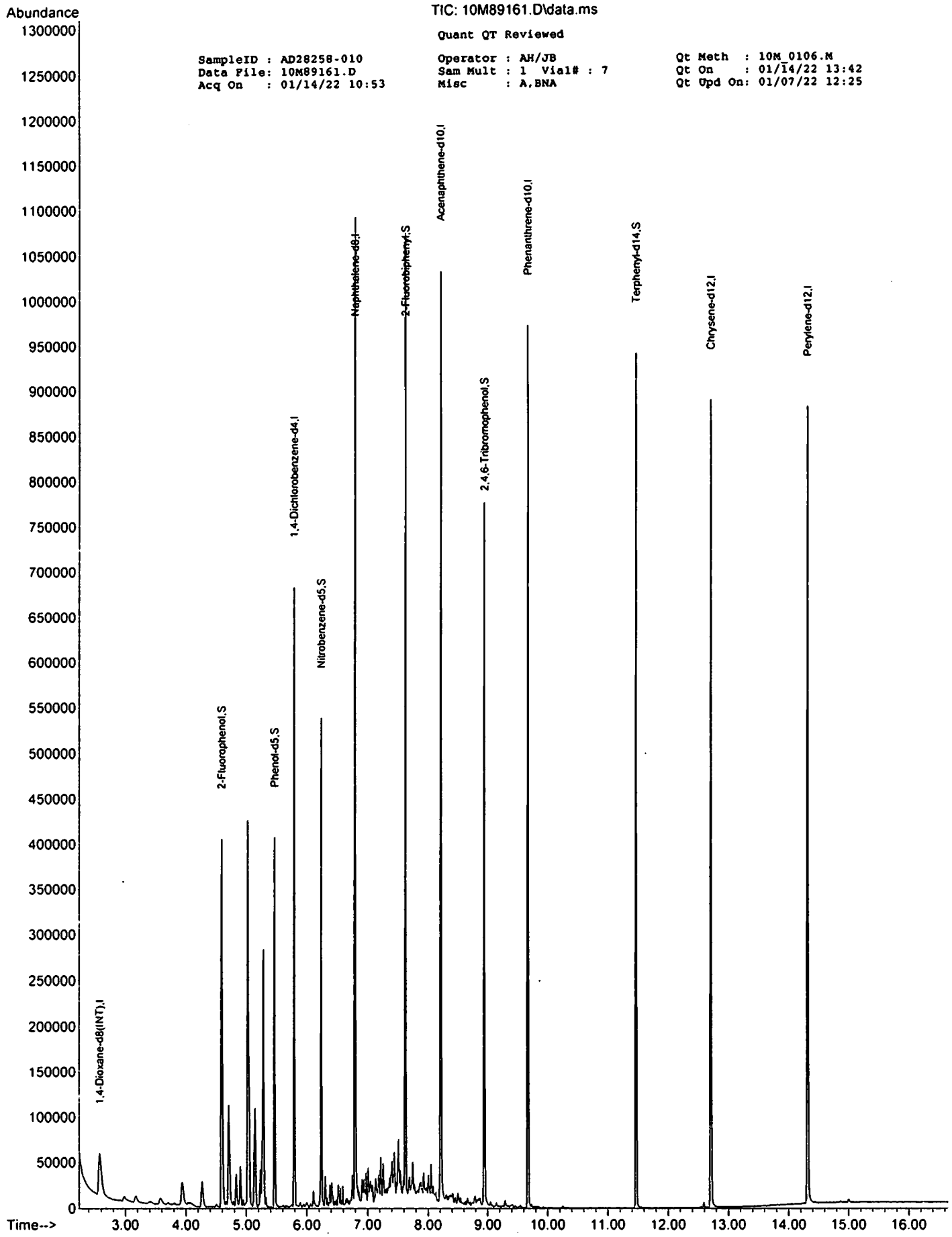
SampleID : AD28258-010 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89161.D Sam Mult : 1 Vial# : 7 Qt On : 01/14/22 13:42
Acq On : 01/14/22 10:53 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.579	96	61565	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.788	152	118650	40.00	ng	-0.01
31) Naphthalene-d8	6.794	136	442872	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	213786	40.00	ng	-0.01
77) Phenanthrene-d10	9.666	188	399300	40.00	ng	-0.01
91) Chrysene-d12	12.709	240	330845	40.00	ng	-0.02
103) Perylene-d12	14.319	264	362072	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	190156	53.31	ng	-0.02
Spiked Amount 100.000			Recovery = 53.31%			
16) Phenol-d5	5.467	99	152784	36.27	ng	-0.01
Spiked Amount 100.000			Recovery = 36.27%			
32) Nitrobenzene-d5	6.238	128	76868	45.28	ng	-0.01
Spiked Amount 50.000			Recovery = 90.56%			
55) 2-Fluorobiphenyl	7.628	172	349815	46.99	ng	0.00
Spiked Amount 50.000			Recovery = 93.98%			
80) 2,4,6-Tribromophenol	8.949	330	89172	91.07	ng	-0.01
Spiked Amount 100.000			Recovery = 91.07%			
94) Terphenyl-d14	11.469	244	290699	52.87	ng	-0.01
Spiked Amount 50.000			Recovery = 105.74%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89161.D\data.ms
Quant QT Reviewed
SampleID : AD28258-010
Data File: 10M89161.D
Acq On : 01/14/22 10:53
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 13:42
Qt Upd On: 01/07/22 12:25
1.4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-011
Client Id: TMW-008S
Data File: 10M89162.D
Analysis Date: 01/14/22 11:16
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	50-32-8	Benzo[a]pyrene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
122-66-7	1,2-Diphenylhydrazine	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
123-91-1	1,4-Dioxane	0.53	U	207-08-9	Benzo[k]fluoranthene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	100-51-6	Benzyl alcohol	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.53	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.58	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	132-64-9	Dibenzofuran	0.72	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	**3&4-Methylphenol**	**0.53**	**25**	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	91-20-3	Naphthalene	0.53	U
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	62-75-9	N-Nitrosodimethylamine	2.1	U
98-86-2	Acetophenone	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.68	U
120-12-7	Anthracene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
1912-24-9	Atrazine	2.1	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.1	U	85-01-8	Phenanthrene	2.1	U
92-87-5	Benzidine	10	U	108-95-2	Phenol	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

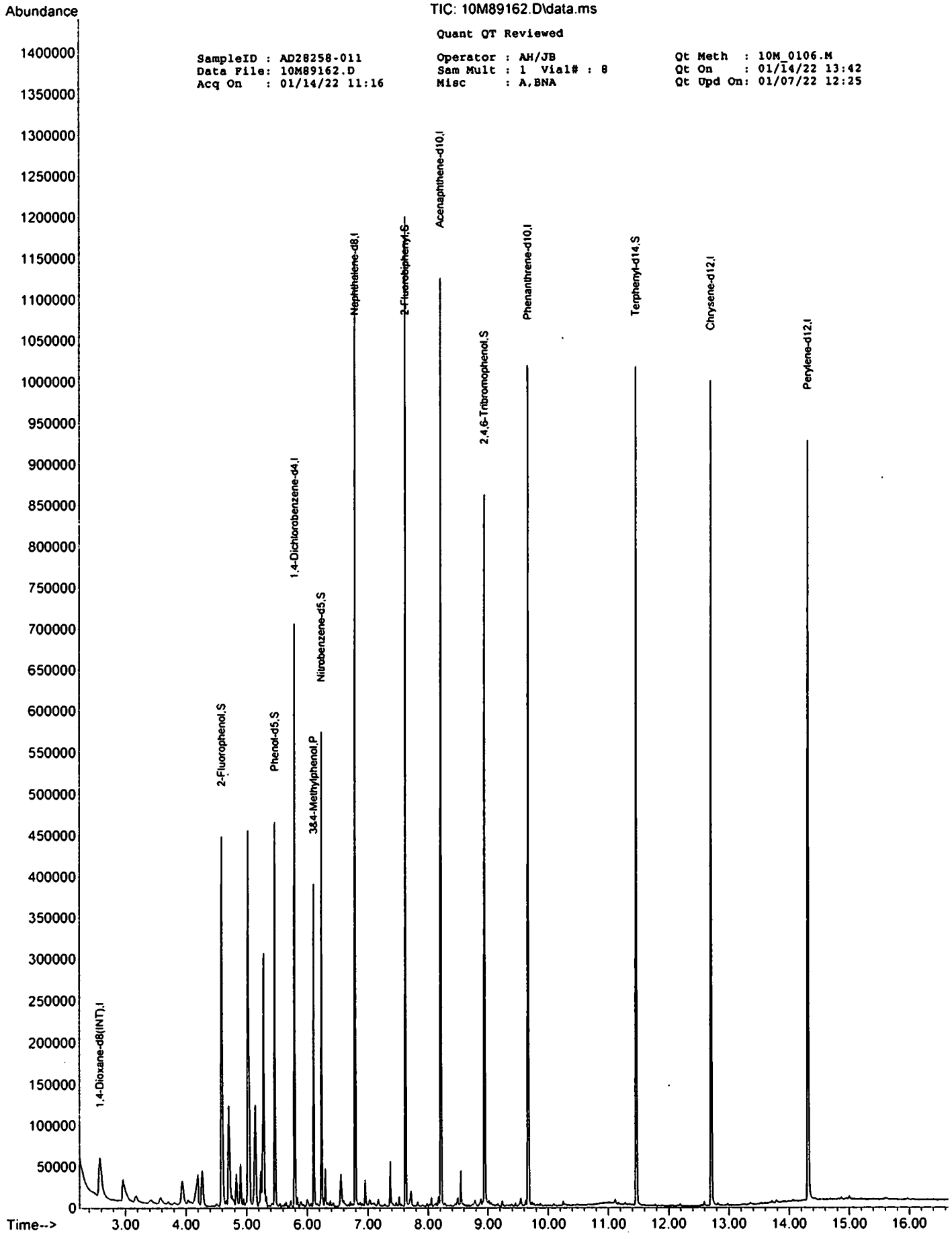
Quantitation Report (QT Reviewed)

SampleID : AD28258-011 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89162.D Sam Mult : 1 Vial# : 8 Qt On : 01/14/22 13:42
Acq On : 01/14/22 11:16 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.579	96	63590	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.794	152	124093	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	465834	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	227046	40.00	ng	-0.01
77) Phenanthrene-d10	9.672	188	421232	40.00	ng	0.00
91) Chrysene-d12	12.710	240	349656	40.00	ng	-0.02
103) Perylene-d12	14.319	264	383473	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	208903	56.70	ng	-0.02
Spiked Amount 100.000			Recovery = 56.70%			
16) Phenol-d5	5.468	99	165818	38.11	ng	-0.01
Spiked Amount 100.000			Recovery = 38.11%			
32) Nitrobenzene-d5	6.238	128	84429	47.28	ng	-0.01
Spiked Amount 50.000			Recovery = 94.56%			
55) 2-Fluorobiphenyl	7.628	172	375005	47.43	ng	0.00
Spiked Amount 50.000			Recovery = 94.86%			
80) 2,4,6-Tribromophenol	8.949	330	98723	95.31	ng	-0.01
Spiked Amount 100.000			Recovery = 95.31%			
94) Terphenyl-d14	11.469	244	314789	54.17	ng	-0.01
Spiked Amount 50.000			Recovery = 108.34%			
Target Compounds						Qvalue
30) 3&4-Methylphenol	6.109	108	81824	23.8360	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 10M89162.D\data.ms
Quant QT Reviewed
SampleID : AD28258-011
Data File: 10M89162.D
Acq On : 01/14/22 11:16
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 13:42
Qt Upd On: 01/07/22 12:25
Abundance
Time-->
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
3&4-Methylphenol.P
Nitrobenzene-d5.S
1,4-Dichlorobenzene-d4.I
Naphthalene-d8.I
2-Fluorobiphenyl-6
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-012
Client Id: TMW-008D
Data File: 10M89163.D
Analysis Date: 01/14/22 11:38
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	50-32-8	Benzo[a]pyrene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
122-66-7	1,2-Diphenylhydrazine	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
123-91-1	1,4-Dioxane	0.53	U	207-08-9	Benzo[k]fluoranthene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	100-51-6	Benzyl alcohol	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.53	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.58	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	2-Methylnaphthalene	2.1	U	132-64-9	Dibenzofuran	0.72	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.53	U	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	91-20-3	Naphthalene	0.53	U
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	62-75-9	N-Nitrosodimethylamine	2.1	U
98-86-2	Acetophenone	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.68	U
120-12-7	Anthracene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
1912-24-9	Atrazine	2.1	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.1	U	85-01-8	Phenanthrene	2.1	U
92-87-5	Benzidine	10	U	108-95-2	Phenol	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

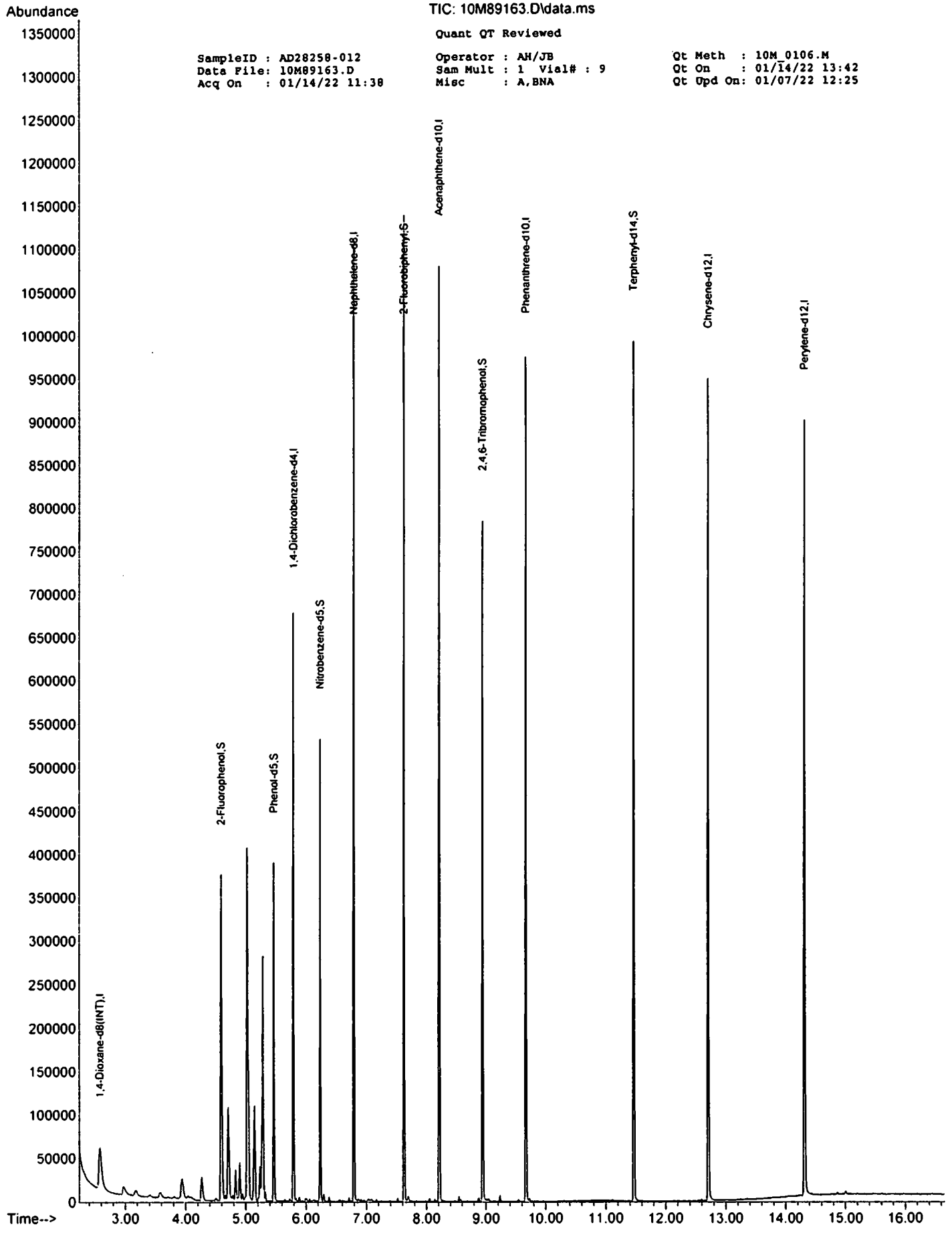
Quantitation Report (QT Reviewed)

SampleID : AD28258-012 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89163.D Sam Mult : 1 Vial# : 9 Qt On : 01/14/22 13:42
Acq On : 01/14/22 11:38 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.579	96	63809	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.794	152	122597	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	457114	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	222742	40.00	ng	-0.01
77) Phenanthrene-d10	9.671	188	411132	40.00	ng	0.00
91) Chrysene-d12	12.709	240	342706	40.00	ng	-0.02
103) Perylene-d12	14.319	264	369701	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	175354	47.43	ng	-0.02
Spiked Amount 100.000			Recovery = 47.43%			
16) Phenol-d5	5.467	99	142971	32.75	ng	-0.01
Spiked Amount 100.000			Recovery = 32.75%			
32) Nitrobenzene-d5	6.238	128	74850	42.71	ng	-0.01
Spiked Amount 50.000			Recovery = 85.42%			
55) 2-Fluorobiphenyl	7.628	172	344733	44.44	ng	0.00
Spiked Amount 50.000			Recovery = 88.88%			
80) 2,4,6-Tribromophenol	8.949	330	90032	89.40	ng	-0.01
Spiked Amount 100.000			Recovery = 89.40%			
94) Terphenyl-d14	11.468	244	301303	52.90	ng	-0.01
Spiked Amount 50.000			Recovery = 105.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89163.D\data.ms
Quant QT Reviewed
SampleID : AD28258-012
Data File: 10M89163.D
Acq On : 01/14/22 11:38
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 13:42
Qt Upd On: 01/07/22 12:25
1.4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1.4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2.4.6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-013
Client Id: TMW-009S
Data File: 10M89165.D
Analysis Date: 01/14/22 12:22
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 865ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.2	U	50-32-8	Benzo[a]pyrene	1.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	205-99-2	Benzo[b]fluoranthene	1.2	U
122-66-7	1,2-Diphenylhydrazine	1.2	U	191-24-2	Benzo[g,h,i]perylene	1.2	U
123-91-1	1,4-Dioxane	0.29	U	207-08-9	Benzo[k]fluoranthene	1.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.2	U	100-51-6	Benzyl alcohol	1.2	U
95-95-4	2,4,5-Trichlorophenol	1.2	U	111-91-1	bis(2-Chloroethoxy)methan	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U	111-44-4	bis(2-Chloroethyl)ether	0.29	U
120-83-2	2,4-Dichlorophenol	0.29	U	108-60-1	bis(2-chloroisopropyl)ether	1.2	U
105-67-9	2,4-Dimethylphenol	0.32	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
51-28-5	2,4-Dinitrophenol	5.8	U	85-68-7	Butylbenzylphthalate	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U	105-60-2	Caprolactam	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U	86-74-8	Carbazole	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U	218-01-9	Chrysene	1.2	U
95-57-8	2-Chlorophenol	1.2	U	53-70-3	Dibenzo[a,h]anthracene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U	132-64-9	Dibenzofuran	0.39	U
95-48-7	2-Methylphenol	0.29	U	84-66-2	Diethylphthalate	1.2	U
88-74-4	2-Nitroaniline	1.2	U	131-11-3	Dimethylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U	84-74-2	Di-n-butylphthalate	0.63	U
106-44-5	3&4-Methylphenol	0.29	U	117-84-0	Di-n-octylphthalate	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U	206-44-0	Fluoranthene	1.2	U
99-09-2	3-Nitroaniline	1.2	U	86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	5.8	U	118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U	87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U	77-47-4	Hexachlorocyclopentadiene	1.2	U
106-47-8	4-Chloroaniline	0.29	U	67-72-1	Hexachloroethane	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
100-01-6	4-Nitroaniline	1.2	U	78-59-1	Isophorone	1.2	U
100-02-7	4-Nitrophenol	1.2	U	91-20-3	Naphthalene	0.29	U
83-32-9	Acenaphthene	1.2	U	98-95-3	Nitrobenzene	1.2	U
208-96-8	Acenaphthylene	1.2	U	62-75-9	N-Nitrosodimethylamine	1.2	U
98-86-2	Acetophenone	1.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.37	U
120-12-7	Anthracene	1.2	U	86-30-6	n-Nitrosodiphenylamine	1.2	U
1912-24-9	Atrazine	1.2	U	87-86-5	Pentachlorophenol	5.8	U
100-52-7	Benzaldehyde	1.2	U	85-01-8	Phenanthrene	1.2	U
92-87-5	Benzidine	5.7	U	108-95-2	Phenol	1.2	U
56-55-3	Benzo[a]anthracene	1.2	U	129-00-0	Pyrene	1.2	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

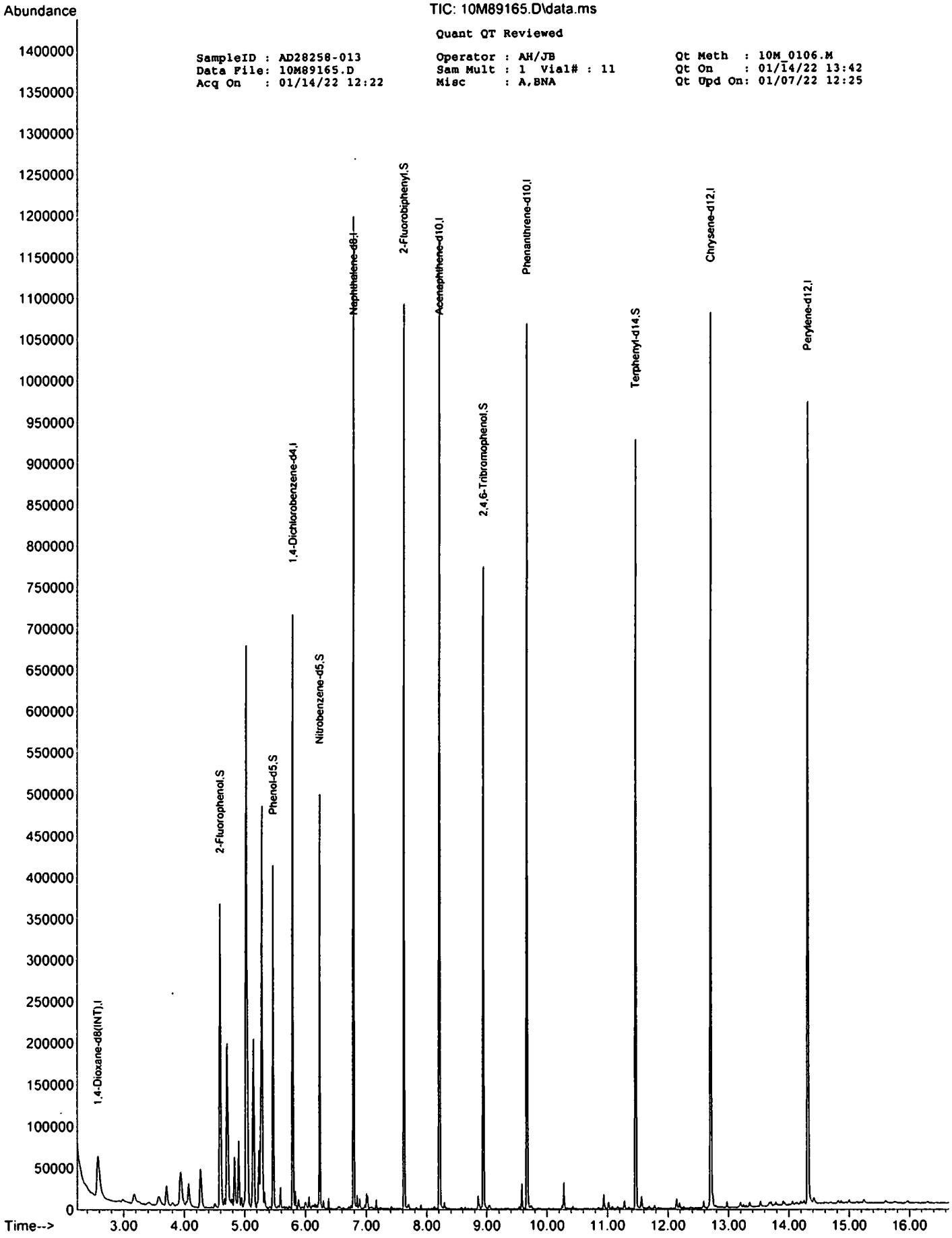
Quantitation Report (QT Reviewed)

SampleID : AD28258-013 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89165.D Sam Mult : 1 Vial# : 11 Qt On : 01/14/22 13:42
Acq On : 01/14/22 12:22 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.579	96	67156	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.794	152	129919	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	492990	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	240397	40.00	ng	-0.01
77) Phenanthrene-d10	9.671	188	452569	40.00	ng	0.00
91) Chrysene-d12	12.709	240	376659	40.00	ng	-0.02
103) Perylene-d12	14.319	264	399964	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	177937	45.73	ng	-0.02
Spiked Amount 100.000			Recovery = 45.73%			
16) Phenol-d5	5.467	99	148624	32.35	ng	-0.01
Spiked Amount 100.000			Recovery = 32.35%			
32) Nitrobenzene-d5	6.238	128	72297	38.26	ng	-0.01
Spiked Amount 50.000			Recovery = 76.52%			
55) 2-Fluorobiphenyl	7.628	172	342673	40.93	ng	0.00
Spiked Amount 50.000			Recovery = 81.86%			
80) 2,4,6-Tribromophenol	8.949	330	87545	79.48	ng	-0.01
Spiked Amount 100.000			Recovery = 79.48%			
94) Terphenyl-d14	11.469	244	287039	45.85	ng	-0.01
Spiked Amount 50.000			Recovery = 91.70%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89165.D\data.ms
Quant QT Reviewed
SampleID : AD28258-013
Data File: 10M89165.D
Acq On : 01/14/22 12:22
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 13:42
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-014
Client Id: TMW-009D
Data File: 10M89166.D
Analysis Date: 01/14/22 12:45
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 815ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.2	U	50-32-8	Benzo[a]pyrene	1.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	205-99-2	Benzo[b]fluoranthene	1.2	U
122-66-7	1,2-Diphenylhydrazine	1.2	U	191-24-2	Benzo[g,h,i]perylene	1.2	U
123-91-1	1,4-Dioxane	0.31	U	207-08-9	Benzo[k]fluoranthene	1.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.2	U	100-51-6	Benzyl alcohol	1.2	U
95-95-4	2,4,5-Trichlorophenol	1.2	U	111-91-1	bis(2-Chloroethoxy)methan	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U	111-44-4	bis(2-Chloroethyl)ether	0.31	U
120-83-2	2,4-Dichlorophenol	0.31	U	108-60-1	bis(2-chloroisopropyl)ether	1.2	U
105-67-9	2,4-Dimethylphenol	0.34	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
51-28-5	2,4-Dinitrophenol	6.1	U	85-68-7	Butylbenzylphthalate	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U	105-60-2	Caprolactam	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U	86-74-8	Carbazole	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U	218-01-9	Chrysene	1.2	U
95-57-8	2-Chlorophenol	1.2	U	53-70-3	Dibenzo[a,h]anthracene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U	132-64-9	Dibenzofuran	0.42	U
95-48-7	2-Methylphenol	0.31	U	84-66-2	Diethylphthalate	1.2	U
88-74-4	2-Nitroaniline	1.2	U	131-11-3	Dimethylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U	84-74-2	Di-n-butylphthalate	0.67	U
106-44-5	3&4-Methylphenol	0.31	U	117-84-0	Di-n-octylphthalate	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U	206-44-0	Fluoranthene	1.2	U
99-09-2	3-Nitroaniline	1.2	U	86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	6.1	U	118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U	87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U	77-47-4	Hexachlorocyclopentadiene	1.2	U
106-47-8	4-Chloroaniline	0.31	U	67-72-1	Hexachloroethane	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
100-01-6	4-Nitroaniline	1.2	U	78-59-1	Isophorone	1.2	U
100-02-7	4-Nitrophenol	1.2	U	91-20-3	Naphthalene	0.31	U
83-32-9	Acenaphthene	1.2	U	98-95-3	Nitrobenzene	1.2	U
208-96-8	Acenaphthylene	1.2	U	62-75-9	N-Nitrosodimethylamine	1.2	U
98-86-2	Acetophenone	1.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.39	U
120-12-7	Anthracene	1.2	U	86-30-6	n-Nitrosodiphenylamine	1.2	U
1912-24-9	Atrazine	1.2	U	87-86-5	Pentachlorophenol	6.1	U
100-52-7	Benzaldehyde	1.2	U	85-01-8	Phenanthrene	1.2	U
92-87-5	Benzidine	6.1	U	108-95-2	Phenol	1.2	U
56-55-3	Benzo[a]anthracene	1.2	U	129-00-0	Pyrene	1.2	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

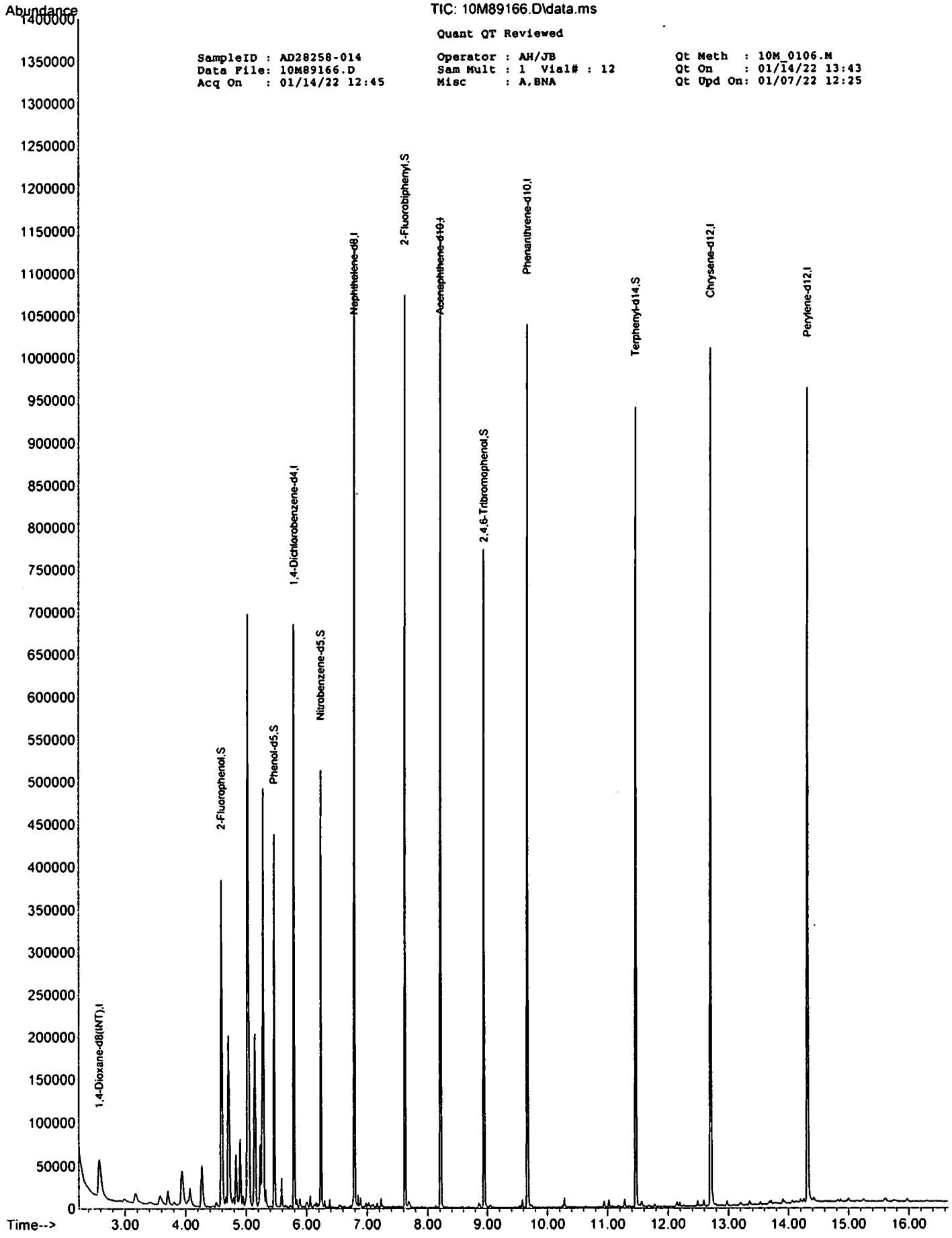
Quantitation Report (QT Reviewed)

SampleID : AD28258-014 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89166.D Sam Mult : 1 Vial# : 12 Qt On : 01/14/22 13:43
Acq On : 01/14/22 12:45 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.579	96	62110	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.794	152	121724	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	469300	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	234669	40.00	ng	-0.01
77) Phenanthrene-d10	9.672	188	437942	40.00	ng	0.00
91) Chrysene-d12	12.710	240	365213	40.00	ng	-0.02
103) Perylene-d12	14.320	264	393233	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	186031	51.70	ng	-0.02
Spiked Amount 100.000			Recovery = 51.70%			
16) Phenol-d5	5.468	99	160022	37.66	ng	-0.01
Spiked Amount 100.000			Recovery = 37.66%			
32) Nitrobenzene-d5	6.238	128	73546	40.88	ng	-0.01
Spiked Amount 50.000			Recovery = 81.76%			
55) 2-Fluorobiphenyl	7.628	172	344299	42.13	ng	0.00
Spiked Amount 50.000			Recovery = 84.26%			
80) 2,4,6-Tribromophenol	8.950	330	90067	84.24	ng	-0.01
Spiked Amount 100.000			Recovery = 84.24%			
94) Terphenyl-d14	11.469	244	300820	49.56	ng	-0.01
Spiked Amount 50.000			Recovery = 99.12%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89166.D\data.ms
Quant QT Reviewed
SampleID : AD28258-014
Data File: 10M89166.D
Acq On : 01/14/22 12:45
Operator : AH/JB
Sam Mult : 1 Vial# : 12
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/14/22 13:43
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD28258-015
Client Id: TMW-011
Data File: 10M89167.D
Analysis Date: 01/14/22 13:07
Date Rec/Extracted: 01/12/22-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.1	U	50-32-8	Benzo[a]pyrene	2.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.1	U	205-99-2	Benzo[b]fluoranthene	2.1	U
122-66-7	1,2-Diphenylhydrazine	2.1	U	191-24-2	Benzo[g,h,i]perylene	2.1	U
123-91-1	1,4-Dioxane	0.53	U	207-08-9	Benzo[k]fluoranthene	2.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.1	U	100-51-6	Benzyl alcohol	2.1	U
95-95-4	2,4,5-Trichlorophenol	2.1	U	111-91-1	bis(2-Chloroethoxy)methan	2.1	U
88-06-2	2,4,6-Trichlorophenol	2.1	U	111-44-4	bis(2-Chloroethyl)ether	0.53	U
120-83-2	2,4-Dichlorophenol	0.53	U	108-60-1	bis(2-chloroisopropyl)ether	2.1	U
105-67-9	2,4-Dimethylphenol	0.58	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.1	U
51-28-5	2,4-Dinitrophenol	11	U	85-68-7	Butylbenzylphthalate	2.1	U
121-14-2	2,4-Dinitrotoluene	2.1	U	105-60-2	Caprolactam	2.1	U
606-20-2	2,6-Dinitrotoluene	2.1	U	86-74-8	Carbazole	2.1	U
91-58-7	2-Chloronaphthalene	2.1	U	218-01-9	Chrysene	2.1	U
95-57-8	2-Chlorophenol	2.1	U	53-70-3	Dibenzo[a,h]anthracene	2.1	U
91-57-6	**2-Methylnaphthalene**	**2.1**	**3.0**	132-64-9	Dibenzofuran	0.72	U
95-48-7	2-Methylphenol	0.53	U	84-66-2	Diethylphthalate	2.1	U
88-74-4	2-Nitroaniline	2.1	U	131-11-3	Dimethylphthalate	2.1	U
88-75-5	2-Nitrophenol	2.1	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.53	U	117-84-0	Di-n-octylphthalate	2.1	U
91-94-1	3,3'-Dichlorobenzidine	2.1	U	206-44-0	Fluoranthene	2.1	U
99-09-2	3-Nitroaniline	2.1	U	86-73-7	Fluorene	2.1	U
534-52-1	4,6-Dinitro-2-methylphenol	11	U	118-74-1	Hexachlorobenzene	2.1	U
101-55-3	4-Bromophenyl-phenylether	2.1	U	87-68-3	Hexachlorobutadiene	2.1	U
59-50-7	4-Chloro-3-methylphenol	2.1	U	77-47-4	Hexachlorocyclopentadiene	2.1	U
106-47-8	4-Chloroaniline	0.53	U	67-72-1	Hexachloroethane	2.1	U
7005-72-3	4-Chlorophenyl-phenylether	2.1	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.1	U
100-01-6	4-Nitroaniline	2.1	U	78-59-1	Isophorone	2.1	U
100-02-7	4-Nitrophenol	2.1	U	**91-20-3**	**Naphthalene**	**0.53**	**1.4**
83-32-9	Acenaphthene	2.1	U	98-95-3	Nitrobenzene	2.1	U
208-96-8	Acenaphthylene	2.1	U	62-75-9	N-Nitrosodimethylamine	2.1	U
98-86-2	Acetophenone	2.1	U	621-64-7	N-Nitroso-di-n-propylamine	0.68	U
120-12-7	Anthracene	2.1	U	86-30-6	n-Nitrosodiphenylamine	2.1	U
1912-24-9	Atrazine	2.1	U	87-86-5	Pentachlorophenol	11	U
100-52-7	Benzaldehyde	2.1	U	85-01-8	Phenanthrene	2.1	U
92-87-5	Benzidine	10	U	108-95-2	Phenol	2.1	U
56-55-3	Benzo[a]anthracene	2.1	U	129-00-0	Pyrene	2.1	U

Worksheet #: 625758 *Total Target Concentration* 4.4 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD28258-015 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89167.D Sam Mult : 1 Vial# : 13 Qt On : 01/14/22 13:43
Acq On : 01/14/22 13:07 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.579	96	71090	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.794	152	125259	40.00	ng	0.00
31) Naphthalene-d8	6.794	136	468901	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	237073	40.00	ng	-0.01
77) Phenanthrene-d10	9.671	188	439690	40.00	ng	0.00
91) Chrysene-d12	12.709	240	372185	40.00	ng	-0.02
103) Perylene-d12	14.319	264	401145	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.590	112	206005	50.02	ng	-0.02
Spiked Amount 100.000			Recovery = 50.02%			
16) Phenol-d5	5.467	99	161808	33.27	ng	-0.01
Spiked Amount 100.000			Recovery = 33.27%			
32) Nitrobenzene-d5	6.243	128	110815	61.65	ng	0.00
Spiked Amount 50.000			Recovery = 123.30%			
55) 2-Fluorobiphenyl	7.628	172	374376	45.35	ng	0.00
Spiked Amount 50.000			Recovery = 90.70%			
80) 2,4,6-Tribromophenol	8.949	330	99327	92.06	ng	-0.01
Spiked Amount 100.000			Recovery = 92.06%			
94) Terphenyl-d14	11.469	244	309864	50.09	ng	-0.01
Spiked Amount 50.000			Recovery = 100.18%			
Target Compounds						Qvalue
41) Naphthalene	6.810	128	15617m	1.3410	ng	
46) 2-Methylnaphthalene	7.339	142	20689m	2.8933	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

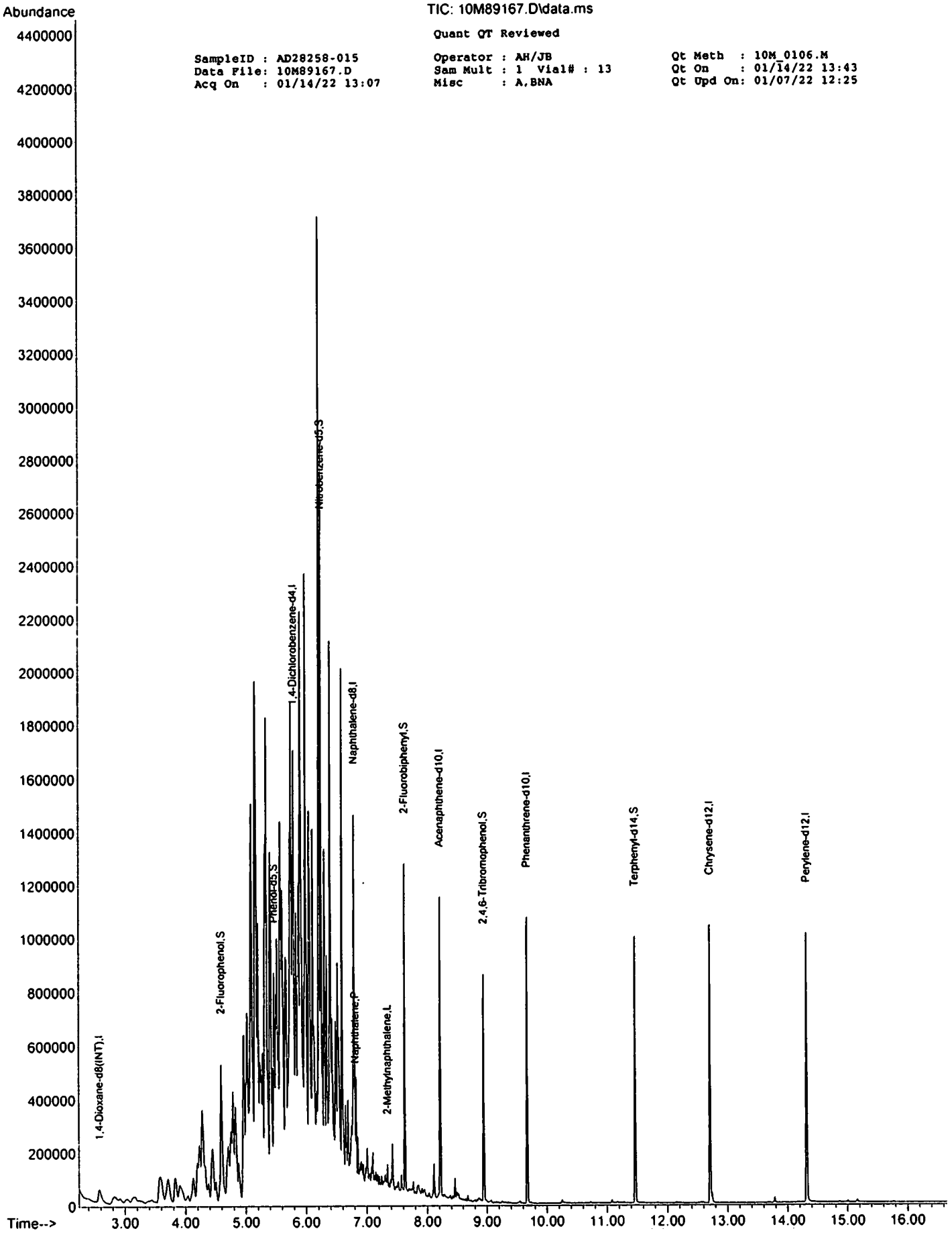
TIC: 10M89167.D\data.ms

Quant QT Reviewed

SampleID : AD28258-015
Data File: 10M89167.D
Acq On : 01/14/22 13:07

Operator : AH/JB
Sam Mult : 1 Vial# : 13
Misc : A,BNA

Qt Meth : 10M_0106.M
Qt On : 01/14/22 13:43
Qt Upd On: 01/07/22 12:25



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB98481
Client Id:
Data File: 10M89142.D
Analysis Date: 01/13/22 14:55
Date Rec/Extracted: NA-01/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

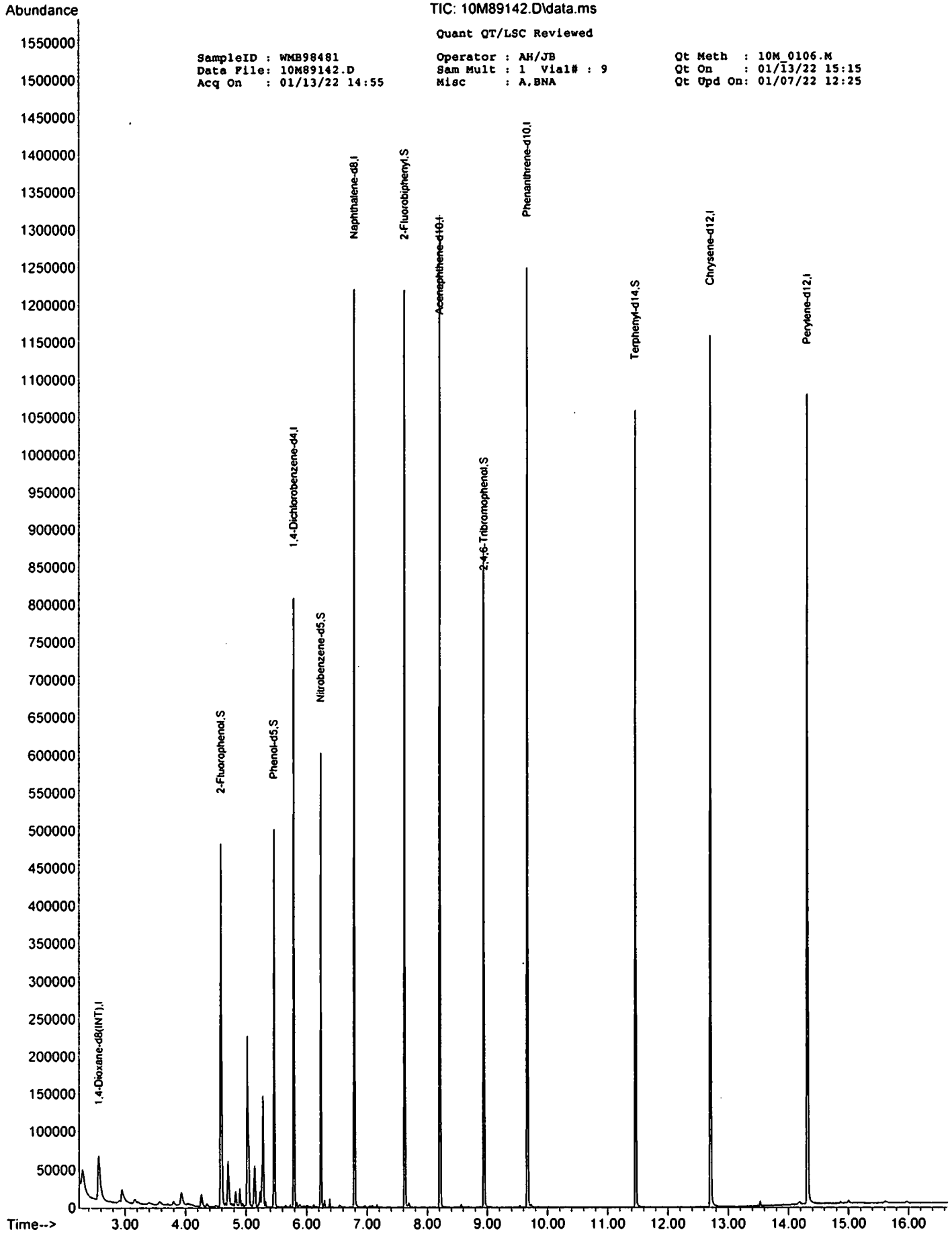
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : WMB98481 Operator : AH/JB Qt Meth : 10M_0106.M
Data File: 10M89142.D Sam Mult : 1 Vial# : 9 Qt On : 01/13/22 15:15
Acq On : 01/13/22 14:55 Misc : A,BNA Qt Upd On: 01/07/22 12:25

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.563	96	65103	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.788	152	133981	40.00	ng	-0.01
31) Naphthalene-d8	6.794	136	520865	40.00	ng	0.00
50) Acenaphthene-d10	8.211	164	263336	40.00	ng	-0.01
77) Phenanthrene-d10	9.666	188	499987	40.00	ng	-0.01
91) Chrysene-d12	12.710	240	421832	40.00	ng	-0.02
103) Perylene-d12	14.320	264	452434	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.585	112	216037	57.28	ng	-0.02
Spiked Amount 100.000			Recovery = 57.28%			
16) Phenol-d5	5.462	99	181302	40.70	ng	-0.02
Spiked Amount 100.000			Recovery = 40.70%			
32) Nitrobenzene-d5	6.238	128	87188	43.67	ng	-0.01
Spiked Amount 50.000			Recovery = 87.34%			
55) 2-Fluorobiphenyl	7.628	172	397970	43.40	ng	0.00
Spiked Amount 50.000			Recovery = 86.80%			
80) 2,4,6-Tribromophenol	8.950	330	100314	82.28	ng	-0.01
Spiked Amount 100.000			Recovery = 82.28%			
94) Terphenyl-d14	11.469	244	330302	47.11	ng	-0.01
Spiked Amount 50.000			Recovery = 94.22%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M89142.D\data.ms
Quant QT/LSC Reviewed
SampleID : WMB98481
Data File: 10M89142.D
Acq On : 01/13/22 14:55
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0106.M
Qt On : 01/13/22 15:15
Qt Upd On: 01/07/22 12:25
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB98497
Client Id:
Data File: 9M110725.D
Analysis Date: 01/16/22 13:06
Date Rec/Extracted: NA-01/15/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
122-66-7	1,2-Diphenylhydrazine	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.85	U
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	100-51-6	Benzyl alcohol	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.55	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.68	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	62-75-9	N-Nitrosodimethylamine	2.0	U
98-86-2	Acetophenone	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.64	U
120-12-7	Anthracene	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
1912-24-9	Atrazine	2.0	U	87-86-5	Pentachlorophenol	10	U
100-52-7	Benzaldehyde	2.0	U	85-01-8	Phenanthrene	2.0	U
92-87-5	Benzidine	9.9	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 625758

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

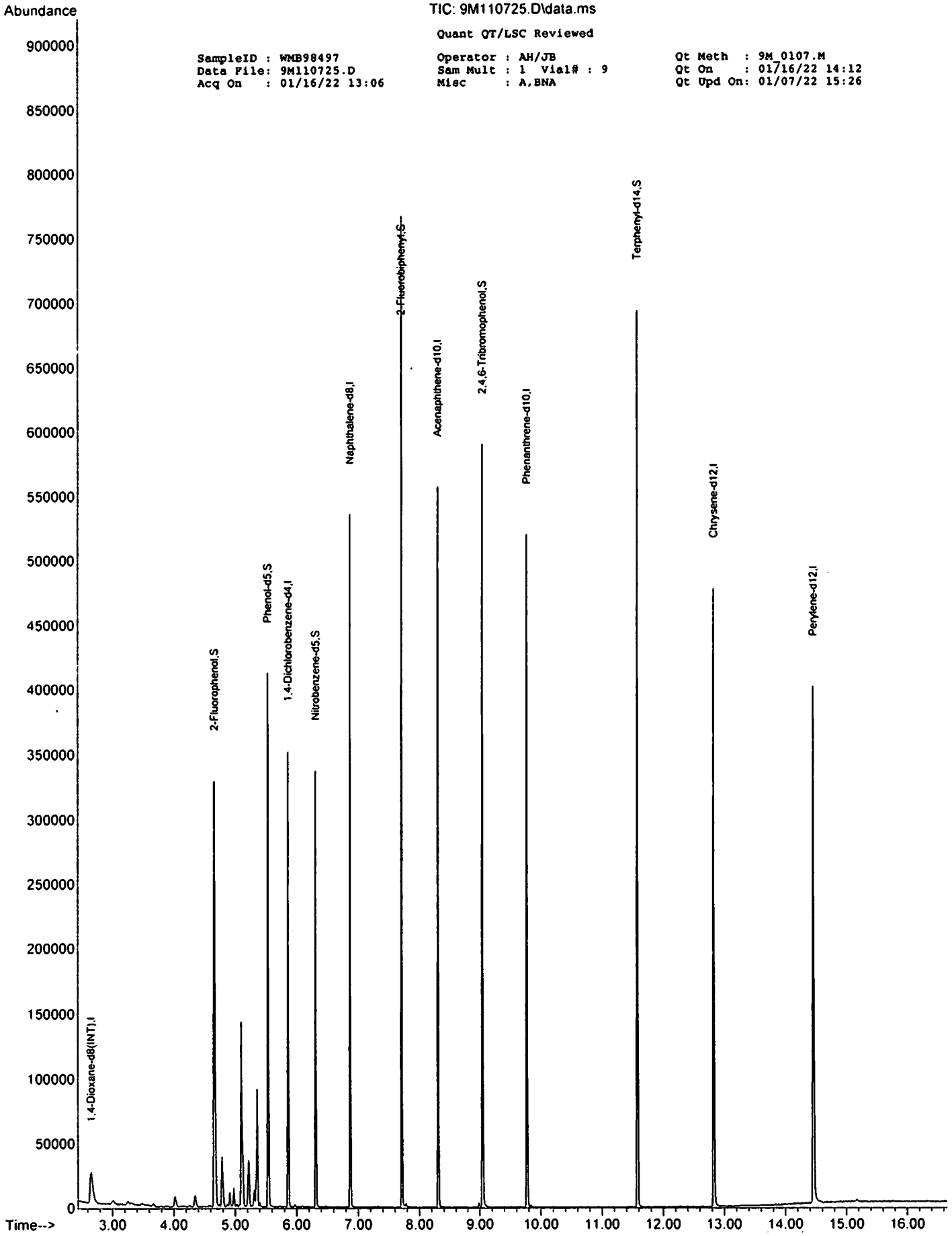
Quantitation Report (QT/LSC Reviewed) **2011202 0230**

SampleID : WMB98497 Operator : AH/JB Qt Meth : 9M_0107.M
Data File: 9M110725.D Sam Mult : 1 Vial# : 9 Qt On : 01/16/22 14:12
Acq On : 01/16/22 13:06 Misc : A,BNA Qt Upd On: 01/07/22 15:26

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-16-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.654	96	27525	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.866	152	48938	40.00	ng	0.00
31) Naphthalene-d8	6.872	136	188949	40.00	ng	0.00
50) Acenaphthene-d10	8.307	164	97250	40.00	ng	0.00
77) Phenanthrene-d10	9.772	188	184759	40.00	ng	0.00
91) Chrysene-d12	12.830	240	170283	40.00	ng	0.00
103) Perylene-d12	14.459	264	174626	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.666	112	129452	73.21	ng	0.00
Spiked Amount 100.000			Recovery = 73.21%			
16) Phenol-d5	5.537	99	133750	59.40	ng	0.00
Spiked Amount 100.000			Recovery = 59.40%			
32) Nitrobenzene-d5	6.313	128	41094	58.81	ng	0.00
Spiked Amount 50.000			Recovery = 117.62%			
55) 2-Fluorobiphenyl	7.713	172	201440	58.36	ng	0.00
Spiked Amount 50.000			Recovery = 116.72%			
80) 2,4,6-Tribromophenol	9.048	330	55776	115.21	ng	0.00
Spiked Amount 100.000			Recovery = 115.21%			
94) Terphenyl-d14	11.583	244	201462	68.77	ng	0.00
Spiked Amount 50.000			Recovery = 137.54%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M110725.D\data.ms
Quant QT/LSC Reviewed
SampleID : WMB98497
Data File: 9M110725.D
Acq On : 01/16/22 13:06
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 9M_0107.M
Qt On : 01/16/22 14:12
Qt Upd On: 01/07/22 15:26
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
10M89142.D	WMB98481	A	01/13/22 14:55	1		57	41	87	87	82	94
9M110725.D	WMB98497	A	01/16/22 13:06	1		73	59	118	117	115	138
10M89147.D	AD28258-001	A	01/13/22 19:35	1		58	42	93	94	89	108
9M110742.D	AD28258-002(R)	A	01/16/22 19:32	1		45	34	87	88	94	114
10M89149.D	AD28258-003	A	01/13/22 20:19	1		59	43	99	99	93	106
10M89150.D	AD28258-004	A	01/13/22 20:41	1		60	49	88	88	87	98
10M89151.D	AD28258-005	A	01/13/22 21:04	1		60	47	100	92	97	105
10M89152.D	AD28258-006	A	01/13/22 21:26	1		53	42	88	89	95	103
10M89153.D	AD28258-007	A	01/13/22 21:48	1		39	31	73	75	83	94
10M89168.D	AD28258-008	A	01/14/22 13:29	1		61	44	97	98	96	110
10M89160.D	AD28258-009	A	01/14/22 10:31	1		55	36	93	97	94	108
10M89161.D	AD28258-010	A	01/14/22 10:53	1		53	36	91	94	91	106
10M89162.D	AD28258-011	A	01/14/22 11:16	1		57	38	95	95	95	108
10M89163.D	AD28258-012	A	01/14/22 11:38	1		47	33	85	89	89	106
10M89165.D	AD28258-013	A	01/14/22 12:22	1		46	32	77	82	79	92
10M89166.D	AD28258-014	A	01/14/22 12:45	1		52	38	82	84	84	99
10M89167.D	AD28258-015	A	01/14/22 13:07	1		50	33	123	91	92	100
10M89141.D	WMB98481(MS)	A	01/13/22 14:33	1		55	40	88	84	99	100
10M89143.D	AD28123-003(T)(MS)	A	01/13/22 18:06	1		65	64	87	85	96	104
10M89144.D	AD28123-003(T)(MSD)	A	01/13/22 18:28	1		58	63	76	83	101	102
10M89146.D	AD28123-003(T)	A	01/13/22 19:12	1		35	30	74	72	49*	86
10M89177.D	WMB98497(MS)	A	01/16/22 13:59	1		64	53	97	105	106	113

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98481

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M89141.D	WMB98481(MS)	1/13/2022 2:33:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	50.6081	0	100	51	20	160
Pyridine	1	60.8375	0	100	61	5	150
N-Nitrosodimethylamine	1	55.9814	0	100	56	50	150
Benzaldehyde	1	76.8466	0	100	77	20	220
Aniline	1	103.1207	0	100	103	20	150
Pentachloroethane	1	79.9012	0	100	80	50	130
bis(2-Chloroethyl)ether	1	74.4333	0	100	74	50	130
Phenol	1	45.5342	0	100	46	20	150
2-Chlorophenol	1	78.6024	0	100	79	70	130
N-Decane	1	75.7983	0	100	76	40	130
1,3-Dichlorobenzene	1	69.0694	0	100	69	50	130
1,4-Dichlorobenzene	1	72.4518	0	100	72	50	130
1,2-Dichlorobenzene	1	72.047	0	100	72	50	130
Benzyl alcohol	1	109.9336	0	100	110	70	130
bis(2-chloroisopropyl)ether	1	70.4154	0	100	70	40	130
2-Methylphenol	1	75.3743	0	100	75	60	130
Acetophenone	1	86.5266	0	100	87	50	130
Hexachloroethane	1	74.1203	0	100	74	50	130
N-Nitroso-di-n-propylamine	1	75.4004	0	100	75	50	130
3&4-Methylphenol	1	71.7629	0	100	72	50	130
Nitrobenzene	1	82.8279	0	100	83	70	130
Isophorone	1	77.8382	0	100	78	70	130
2-Nitrophenol	1	92.7034	0	100	93	70	130
2,4-Dimethylphenol	1	79.4703	0	100	79	40	130
Benzoic Acid	1	13.6532	0	100	14*	20	130
bis(2-Chloroethoxy)methane	1	82.6946	0	100	83	70	130
2,4-Dichlorophenol	1	86.1678	0	100	86	70	130
1,2,4-Trichlorobenzene	1	80.0039	0	100	80	50	130
Naphthalene	1	73.2637	0	100	73	70	130
4-Chloroaniline	1	137.5727	0	100	138	50	150
Hexachlorobutadiene	1	78.5663	0	100	79	70	130
Caprolactam	1	41.7624	0	100	42	20	130
4-Chloro-3-methylphenol	1	92.9192	0	100	93	70	130
2-Methylnaphthalene	1	118.2993	0	100	118	70	130
1-Methylnaphthalene	1	89.1883	0	100	89	70	130
1,1'-Biphenyl	1	90.5179	0	100	91	70	130
1,2,4,5-Tetrachlorobenzene	1	88.6683	0	100	89	70	130
Hexachlorocyclopentadiene	1	80.9995	0	100	81	20	130
2,4,6-Trichlorophenol	1	92.9645	0	100	93	70	130
2,4,5-Trichlorophenol	1	93.3837	0	100	93	70	130
2-Chloronaphthalene	1	84.9992	0	100	85	70	130
1,4-Dimethylnaphthalene	1	88.2737	0	100	88	70	130
Diphenyl Ether	1	90.4255	0	100	90	70	130
2-Nitroaniline	1	127.4999	0	100	127	50	150
Coumarin	1	95.856	0	100	96	70	130
Acenaphthylene	1	81.5718	0	100	82	70	130
Dimethylphthalate	1	88.7383	0	100	89	70	130
2,6-Dinitrotoluene	1	87.8139	0	100	88	70	130
Acenaphthene	1	84.3078	0	100	84	70	130
3-Nitroaniline	1	130.099	0	100	130	50	150
2,4-Dinitrophenol	1	91.4144	0	100	91	20	150
Dibenzofuran	1	118.5075	0	100	119	70	130
2,4-Dinitrotoluene	1	92.9844	0	100	93	40	130
4-Nitrophenol	1	52.8857	0	100	53	20	150
2,3,4,6-Tetrachlorophenol	1	92.6392	0	100	93	70	130
Fluorene	1	84.1231	0	100	84	70	130
4-Chlorophenyl-phenylether	1	89.1247	0	100	89	70	130
Diethylphthalate	1	89.484	0	100	89	50	130
4-Nitroaniline	1	133.6157	0	100	134	50	150
Atrazine	1	100.2357	0	100	100	50	130
4,6-Dinitro-2-methylphenol	1	105.998	0	100	106	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98481

Method: 8270E	Matrix: Aqueous		Units: ug/L	QC Type: MBS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	72.918	0	100	73	50	130
1,2-Diphenylhydrazine	1	84.2723	0	100	84	70	130
4-Bromophenyl-phenylether	1	91.7416	0	100	92	70	130
Hexachlorobenzene	1	88.3027	0	100	88	70	130
N-Octadecane	1	92.6129	0	100	93	70	130
Pentachlorophenol	1	112.1525	0	100	112	40	130
Phenanthrene	1	85.8099	0	100	86	70	130
Anthracene	1	85.4492	0	100	85	70	130
Carbazole	1	93.1953	0	100	93	70	130
Di-n-butylphthalate	1	95.629	0	100	96	70	130
Fluoranthene	1	91.0161	0	100	91	70	130
Pyrene	1	87.0136	0	100	87	70	130
Benzidine	1	8.9344	0	100	8.9	0	134
Butylbenzylphthalate	1	99.5645	0	100	100	50	130
3,3'-Dichlorobenzidine	1	79.9424	0	100	80	1	150
Benzo[a]anthracene	1	79.4003	0	100	79	70	130
Chrysene	1	88.4063	0	100	88	50	130
bis(2-Ethylhexyl)phthalate	1	97.853	0	100	98	70	130
Di-n-octylphthalate	1	94.1742	0	100	94	70	130
Benzo[b]fluoranthene	1	90.4672	0	100	90	70	130
Benzo[k]fluoranthene	1	94.2213	0	100	94	70	130
Benzo[a]pyrene	1	87.6797	0	100	88	70	130
Indeno[1,2,3-cd]pyrene	1	97.2234	0	100	97	70	130
Dibenzo[a,h]anthracene	1	93.8754	0	100	94	70	130
Benzo[g,h,i]perylene	1	89.481	0	100	89	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98481

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M89143.D	AD28123-003(T)(MS)	1/13/2022 6:06:00 PM
Non Spike(If applicable):	10M89146.D	AD28123-003(T)	1/13/2022 7:12:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	66.6595	0	100	67	20	160
Pyridine	1	66.9138	0	100	67	5	150
N-Nitrosodimethylamine	1	74.2364	0	100	74	50	150
Benzaldehyde	1	79.9834	0	100	80	20	220
Aniline	1	105.9187	0	100	106	20	150
Pentachloroethane	1	79.4295	0	100	79	50	130
bis(2-Chloroethyl)ether	1	76.2995	0	100	76	50	130
N-Decane	1	74.8921	0	100	75	40	130
1,3-Dichlorobenzene	1	70.2911	0	100	70	50	130
1,4-Dichlorobenzene	1	73.4443	0	100	73	50	130
1,2-Dichlorobenzene	1	73.6485	0	100	74	50	130
Benzyl alcohol	1	125.09	0	100	125	70	130
bis(2-chloroisopropyl)ether	1	71.2327	0	100	71	40	130
Acetophenone	1	90.0845	0	100	90	50	130
Hexachloroethane	1	75.9903	0	100	76	50	130
N-Nitroso-di-n-propylamine	1	79.4874	0	100	79	50	130
Nitrobenzene	1	86.9445	0	100	87	70	130
Isophorone	1	82.1087	0	100	82	70	130
Benzoic Acid	1	62.6545	0	100	63	20	130
bis(2-Chloroethoxy)methane	1	86.8988	0	100	87	70	130
1,2,4-Trichlorobenzene	1	83.3888	0	100	83	50	130
Naphthalene	1	76.8208	2.4654	100	74	70	130
4-Chloroaniline	1	118.4569	0	100	118	50	150
Hexachlorobutadiene	1	81.1622	0	100	81	70	130
Caprolactam	1	98.7838	0	100	99	20	130
2-Methylnaphthalene	1	125.8975	6.9947	100	119	70	130
1-Methylnaphthalene	1	96.3651	13.269	100	83	70	130
1,1'-Biphenyl	1	93.6799	0	100	94	70	130
1,2,4,5-Tetrachlorobenzene	1	93.1264	0	100	93	70	130
Hexachlorocyclopentadiene	1	85.3606	0	100	85	20	130
2-Chloronaphthalene	1	89.4656	0	100	89	70	130
1,4-Dimethylnaphthalene	1	94.1111	6.6253	100	87	70	130
Diphenyl Ether	1	95.6763	0	100	96	70	130
2-Nitroaniline	1	136.101	0	100	136	50	150
Coumarin	1	99.9386	0	100	100	70	130
Acenaphthylene	1	85.9825	0	100	86	70	130
Dimethylphthalate	1	93.4684	0	100	93	70	130
2,6-Dinitrotoluene	1	93.0506	0	100	93	70	130
Acenaphthene	1	89.4703	0	100	89	70	130
3-Nitroaniline	1	140.2079	0	100	140	50	150
Dibenzofuran	1	125.8413	0.8995	100	125	70	130
2,4-Dinitrotoluene	1	99.7242	0	100	100	40	130
Fluorene	1	89.6534	0	100	90	70	130
4-Chlorophenyl-phenylether	1	93.5446	0	100	94	70	130
Diethylphthalate	1	94.7338	0	100	95	50	130
4-Nitroaniline	1	142.0747	0	100	142	50	150
Atrazine	1	96.2839	0	100	96	50	130
n-Nitrosodiphenylamine	1	78.2692	0	100	78	50	130
1,2-Diphenylhydrazine	1	89.7796	0	100	90	70	130
4-Bromophenyl-phenylether	1	98.2767	0	100	98	70	130
Hexachlorobenzene	1	94.5094	0	100	95	70	130
N-Octadecane	1	100.2384	0	100	100	70	130
Phenanthrene	1	92.8054	2.3771	100	90	70	130
Anthracene	1	92.4843	0	100	92	70	130
Carbazole	1	99.3355	0	100	99	70	130
Di-n-butylphthalate	1	104.6003	0	100	105	70	130
Fluoranthene	1	98.1518	0	100	98	70	130
Pyrene	1	93.2109	0	100	93	70	130
Benzidine	1	4.3612	0	100	4.4	0	134
Butylbenzylphthalate	1	108.6842	0	100	109	50	130
3,3'-Dichlorobenzidine	1	75.8859	0	100	76	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98481

Method: 8270E	Matrix: Aqueous		Units: ug/L	QC Type: MS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	**1**	**85.5872**	**0**	**100**	**86**	**70**	**130**
Chrysene	**1**	**95.425**	**0**	**100**	**95**	**50**	**130**
bis(2-Ethylhexyl)phthalate	**1**	**106.3037**	**0**	**100**	**106**	**70**	**130**
Di-n-octylphthalate	**1**	**102.7212**	**0**	**100**	**103**	**70**	**130**
Benzo[b]fluoranthene	**1**	**102.6702**	**0**	**100**	**103**	**70**	**130**
Benzo[k]fluoranthene	**1**	**101.1519**	**0**	**100**	**101**	**70**	**130**
Benzo[a]pyrene	**1**	**93.5336**	**0**	**100**	**94**	**70**	**130**
Indeno[1,2,3-cd]pyrene	**1**	**104.1513**	**0**	**100**	**104**	**70**	**130**
Dibenzo[a,h]anthracene	**1**	**100.8489**	**0**	**100**	**101**	**70**	**130**
Benzo[g,h,i]perylene	**1**	**96.8981**	**0**	**100**	**97**	**70**	**130**

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98481

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M89144.D	AD28123-003(T)(MSD)	1/13/2022 6:28:00 PM
Non Spike(If applicable):	10M89146.D	AD28123-003(T)	1/13/2022 7:12:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	56.8937	0	100	57	20	160
Pyridine	1	53.104	0	100	53	5	150
N-Nitrosodimethylamine	1	67.8669	0	100	68	50	150
Benzaldehyde	1	69.6224	0	100	70	20	220
Aniline	1	95.1703	0	100	95	20	150
Pentachloroethane	1	69.6928	0	100	70	50	130
bis(2-Chloroethyl)ether	1	70.8484	0	100	71	50	130
N-Decane	1	64.8508	0	100	65	40	130
1,3-Dichlorobenzene	1	64.1958	0	100	64	50	130
1,4-Dichlorobenzene	1	69.1416	0	100	69	50	130
1,2-Dichlorobenzene	1	68.7257	0	100	69	50	130
Benzyl alcohol	1	117.6903	0	100	118	70	130
bis(2-chloroisopropyl)ether	1	67.922	0	100	68	40	130
Acetophenone	1	84.9649	0	100	85	50	130
Hexachloroethane	1	70.3433	0	100	70	50	130
N-Nitroso-di-n-propylamine	1	75.3888	0	100	75	50	130
Nitrobenzene	1	84.3413	0	100	84	70	130
Isophorone	1	79.6497	0	100	80	70	130
Benzoic Acid	1	68.2466	0	100	68	20	130
bis(2-Chloroethoxy)methane	1	83.2333	0	100	83	70	130
1,2,4-Trichlorobenzene	1	79.0085	0	100	79	50	130
Naphthalene	1	74.7931	2.4654	100	72	70	130
4-Chloroaniline	1	114.2258	0	100	114	50	150
Hexachlorobutadiene	1	76.7063	0	100	77	70	130
Caprolactam	1	97.357	0	100	97	20	130
2-Methylnaphthalene	1	120.8273	6.9947	100	114	70	130
1-Methylnaphthalene	1	92.5957	13.269	100	79	70	130
1,1'-Biphenyl	1	91.4167	0	100	91	70	130
1,2,4,5-Tetrachlorobenzene	1	88.9025	0	100	89	70	130
Hexachlorocyclopentadiene	1	82.7823	0	100	83	20	130
2-Chloronaphthalene	1	87.0968	0	100	87	70	130
1,4-Dimethylnaphthalene	1	92.8227	6.6253	100	86	70	130
Diphenyl Ether	1	93.6027	0	100	94	70	130
2-Nitroaniline	1	134.7237	0	100	135	50	150
Coumarin	1	100.8901	0	100	101	70	130
Acenaphthylene	1	83.7714	0	100	84	70	130
Dimethylphthalate	1	92.3584	0	100	92	70	130
2,6-Dinitrotoluene	1	93.4089	0	100	93	70	130
Acenaphthene	1	87.3051	0	100	87	70	130
3-Nitroaniline	1	138.6227	0	100	139	50	150
Dibenzofuran	1	122.936	0.8995	100	122	70	130
2,4-Dinitrotoluene	1	97.2407	0	100	97	40	130
Fluorene	1	88.5658	0	100	89	70	130
4-Chlorophenyl-phenylether	1	92.1942	0	100	92	70	130
Diethylphthalate	1	93.2324	0	100	93	50	130
4-Nitroaniline	1	140.6107	0	100	141	50	150
Atrazine	1	95.0365	0	100	95	50	130
n-Nitrosodiphenylamine	1	77.2943	0	100	77	50	130
1,2-Diphenylhydrazine	1	88.937	0	100	89	70	130
4-Bromophenyl-phenylether	1	97.0885	0	100	97	70	130
Hexachlorobenzene	1	93.0431	0	100	93	70	130
N-Octadecane	1	98.9579	0	100	99	70	130
Phenanthrene	1	92.1233	2.3771	100	90	70	130
Anthracene	1	91.6202	0	100	92	70	130
Carbazole	1	98.0209	0	100	98	70	130
Di-n-butylphthalate	1	101.9905	0	100	102	70	130
Fluoranthene	1	96.7507	0	100	97	70	130
Pyrene	1	92.2865	0	100	92	70	130
Benzidine	1	3.6232	0	100	3.6	0	134
Butylbenzylphthalate	1	106.5787	0	100	107	50	130
3,3'-Dichlorobenzidine	1	75.128	0	100	75	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98481

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	**1**	**84.7956**	**0**	**100**	**85**	**70**	**130**
Chrysene	**1**	**94.5521**	**0**	**100**	**95**	**50**	**130**
bis(2-Ethylhexyl)phthalate	**1**	**105.4402**	**0**	**100**	**105**	**70**	**130**
Di-n-octylphthalate	**1**	**100.4906**	**0**	**100**	**100**	**70**	**130**
Benzo[b]fluoranthene	**1**	**103.4908**	**0**	**100**	**103**	**70**	**130**
Benzo[k]fluoranthene	**1**	**98.6821**	**0**	**100**	**99**	**70**	**130**
Benzo[a]pyrene	**1**	**92.1986**	**0**	**100**	**92**	**70**	**130**
Indeno[1,2,3-cd]pyrene	**1**	**102.231**	**0**	**100**	**102**	**70**	**130**
Dibenzo[a,h]anthracene	**1**	**98.8716**	**0**	**100**	**99**	**70**	**130**
Benzo[g,h,i]perylene	**1**	**93.9703**	**0**	**100**	**94**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB98481

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M89144.D	AD28123-003(T)(MSD)	1/13/2022 6:28:00 PM
Duplicate(If applicable):	10M89143.D	AD28123-003(T)(MS)	1/13/2022 6:06:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	56.8937	66.6595	16	20
Pyridine	1	53.104	66.9138	23	40
N-Nitrosodimethylamine	1	67.8669	74.2364	9	20
Benzaldehyde	1	69.6224	79.9834	14	20
Aniline	1	95.1703	105.9187	11	20
Pentachloroethane	1	69.6928	79.4295	13	20
bis(2-Chloroethyl)ether	1	70.8484	76.2995	7.4	20
N-Decane	1	64.8508	74.8921	14	20
1,3-Dichlorobenzene	1	64.1958	70.2911	9.1	20
1,4-Dichlorobenzene	1	69.1416	73.4443	6	40
1,2-Dichlorobenzene	1	68.7257	73.6485	6.9	20
Benzyl alcohol	1	117.6903	125.09	6.1	20
bis(2-chloroisopropyl)ether	1	67.922	71.2327	4.8	20
Acetophenone	1	84.9649	90.0845	5.8	20
Hexachloroethane	1	70.3433	75.9903	7.7	40
N-Nitroso-di-n-propylamine	1	75.3888	79.4874	5.3	40
Nitrobenzene	1	84.3413	86.9445	3	40
Isophorone	1	79.6497	82.1087	3	20
Benzoic Acid	1	68.2466	62.6545	8.5	20
bis(2-Chloroethoxy)methane	1	83.2333	86.8988	4.3	20
1,2,4-Trichlorobenzene	1	79.0085	83.3888	5.4	40
Naphthalene	1	74.7931	76.8208	2.7	40
4-Chloroaniline	1	114.2258	118.4569	3.6	20
Hexachlorobutadiene	1	76.7063	81.1622	5.6	40
Caprolactam	1	97.357	98.7838	1.5	20
2-Methylnaphthalene	1	120.8273	125.8975	4.1	20
1-Methylnaphthalene	1	92.5957	96.3651	4	20
1,1'-Biphenyl	1	91.4167	93.6799	2.4	20
1,2,4,5-Tetrachlorobenzene	1	88.9025	93.1264	4.6	20
Hexachlorocyclopentadiene	1	82.7823	85.3606	3.1	20
2-Chloronaphthalene	1	87.0968	89.4656	2.7	20
1,4-Dimethylnaphthalene	1	92.8227	94.1111	1.4	20
Diphenyl Ether	1	93.6027	95.6763	2.2	20
2-Nitroaniline	1	134.7237	136.101	1	20
Coumarin	1	100.8901	99.9386	0.95	20
Acenaphthylene	1	83.7714	85.9825	2.6	20
Dimethylphthalate	1	92.3584	93.4684	1.2	20
2,6-Dinitrotoluene	1	93.4089	93.0506	0.38	20
Acenaphthene	1	87.3051	89.4703	2.4	40
3-Nitroaniline	1	138.6227	140.2079	1.1	20
Dibenzofuran	1	122.936	125.8413	2.3	20
2,4-Dinitrotoluene	1	97.2407	99.7242	2.5	40
Fluorene	1	88.5658	89.6534	1.2	40
4-Chlorophenyl-phenylether	1	92.1942	93.5446	1.5	20
Diethylphthalate	1	93.2324	94.7338	1.6	20
4-Nitroaniline	1	140.6107	142.0747	1	20
Atrazine	1	95.0365	96.2839	1.3	20
n-Nitrosodiphenylamine	1	77.2943	78.2692	1.3	20
1,2-Diphenylhydrazine	1	88.937	89.7796	0.94	20
4-Bromophenyl-phenylether	1	97.0885	98.2767	1.2	20
Hexachlorobenzene	1	93.0431	94.5094	1.6	40
N-Octadecane	1	98.9579	100.2384	1.3	20
Phenanthrene	1	92.1233	92.8054	0.74	20
Anthracene	1	91.6202	92.4843	0.94	20
Carbazole	1	98.0209	99.3355	1.3	20
Di-n-butylphthalate	1	101.9905	104.6003	2.5	20
Fluoranthene	1	96.7507	98.1518	1.4	20
Pyrene	1	92.2865	93.2109	1	40
Benzidine	1	3.6232	4.3612	18	20
Butylbenzylphthalate	1	106.5787	108.6842	2	40
3,3'-Dichlorobenzidine	1	75.128	75.8859	1	20

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: WMB98481

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	84.7956	85.5872	0.93	20
Chrysene	1	94.5521	95.425	0.92	20
bis(2-Ethylhexyl)phthalate	1	105.4402	106.3037	0.82	20
Di-n-octylphthalate	1	100.4906	102.7212	2.2	20
Benzo[b]fluoranthene	1	103.4908	102.6702	0.8	20
Benzo[k]fluoranthene	1	98.6821	101.1519	2.5	20
Benzo[a]pyrene	1	92.1986	93.5336	1.4	20
Indeno[1,2,3-cd]pyrene	1	102.231	104.1513	1.9	20
Dibenzo[a,h]anthracene	1	98.8716	100.8489	2	20
Benzo[g,h,i]perylene	1	93.9703	96.8981	3.1	20

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98497

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M89177.D	WMB98497(MS)	1/16/2022 1:59:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	58.0679	0	100	58	20	160
Pyridine	1	68.6354	0	100	69	5	150
N-Nitrosodimethylamine	1	70.428	0	100	70	50	150
Benzaldehyde	1	83.8012	0	100	84	20	220
Aniline	1	92.7943	0	100	93	20	150
Pentachloroethane	1	82.0983	0	100	82	50	130
bis(2-Chloroethyl)ether	1	87.0895	0	100	87	50	130
Phenol	1	58.2212	0	100	58	20	150
2-Chlorophenol	1	86.6523	0	100	87	70	130
N-Decane	1	80.097	0	100	80	40	130
1,3-Dichlorobenzene	1	81.3457	0	100	81	50	130
1,4-Dichlorobenzene	1	84.8234	0	100	85	50	130
1,2-Dichlorobenzene	1	84.3412	0	100	84	50	130
Benzyl alcohol	1	101.5488	0	100	102	70	130
bis(2-chloroisopropyl)ether	1	84.067	0	100	84	40	130
2-Methylphenol	1	86.4288	0	100	86	60	130
Acetophenone	1	98.1837	0	100	98	50	130
Hexachloroethane	1	84.9933	0	100	85	50	130
N-Nitroso-di-n-propylamine	1	90.6079	0	100	91	50	130
3&4-Methylphenol	1	87.5905	0	100	88	50	130
Nitrobenzene	1	98.1498	0	100	98	70	130
Isophorone	1	93.4861	0	100	93	70	130
2-Nitrophenol	1	104.781	0	100	105	70	130
2,4-Dimethylphenol	1	90.1554	0	100	90	40	130
Benzoic Acid	1	53.3544	0	100	53	20	130
bis(2-Chloroethoxy)methane	1	99.4461	0	100	99	70	130
2,4-Dichlorophenol	1	98.9506	0	100	99	70	130
1,2,4-Trichlorobenzene	1	95.5696	0	100	96	50	130
Naphthalene	1	89.7654	0	100	90	70	130
4-Chloroaniline	1	107.2077	0	100	107	50	150
Hexachlorobutadiene	1	91.7097	0	100	92	70	130
Caprolactam	1	71.8017	0	100	72	20	130
4-Chloro-3-methylphenol	1	108.6409	0	100	109	70	130
2-Methylnaphthalene	1	112.9523	0	100	113	70	130
1-Methylnaphthalene	1	103.2712	0	100	103	70	130
1,1'-Biphenyl	1	105.5104	0	100	106	70	130
1,2,4,5-Tetrachlorobenzene	1	102.3303	0	100	102	70	130
Hexachlorocyclopentadiene	1	100.5564	0	100	101	20	130
2,4,6-Trichlorophenol	1	108.6628	0	100	109	70	130
2,4,5-Trichlorophenol	1	111.5563	0	100	112	70	130
2-Chloronaphthalene	1	103.2776	0	100	103	70	130
1,4-Dimethylnaphthalene	1	106.1797	0	100	106	70	130
Diphenyl Ether	1	107.5787	0	100	108	70	130
2-Nitroaniline	1	124.7851	0	100	125	50	150
Coumarin	1	115.5688	0	100	116	70	130
Acenaphthylene	1	99.0039	0	100	99	70	130
Dimethylphthalate	1	108.1317	0	100	108	70	130
2,6-Dinitrotoluene	1	110.3207	0	100	110	70	130
Acenaphthene	1	103.4185	0	100	103	70	130
3-Nitroaniline	1	121.6784	0	100	122	50	150
2,4-Dinitrophenol	1	119.5402	0	100	120	20	150
Dibenzofuran	1	113.8336	0	100	114	70	130
2,4-Dinitrotoluene	1	113.6309	0	100	114	40	130
4-Nitrophenol	1	77.7146	0	100	78	20	150
2,3,4,6-Tetrachlorophenol	1	109.1079	0	100	109	70	130
Fluorene	1	104.3404	0	100	104	70	130
4-Chlorophenyl-phenylether	1	109.2441	0	100	109	70	130
Diethylphthalate	1	109.4417	0	100	109	50	130
4-Nitroaniline	1	127.1163	0	100	127	50	150
Atrazine	1	119.3421	0	100	119	50	130
4,6-Dinitro-2-methylphenol	1	131.7029	0	100	132*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB98497

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	90.3949	0	100	90	50	130
1,2-Diphenylhydrazine	1	104.4472	0	100	104	70	130
4-Bromophenyl-phenylether	1	110.8082	0	100	111	70	130
Hexachlorobenzene	1	105.9746	0	100	106	70	130
N-Octadecane	1	116.6902	0	100	117	70	130
Pentachlorophenol	1	132.7226	0	100	133*	40	130
Phenanthrene	1	107.5073	0	100	108	70	130
Anthracene	1	106.8841	0	100	107	70	130
Carbazole	1	112.535	0	100	113	70	130
Di-n-butylphthalate	1	117.4475	0	100	117	70	130
Fluoranthene	1	114.035	0	100	114	70	130
Pyrene	1	109.4319	0	100	109	70	130
Benzidine	1	6.9413	0	100	6.9	0	134
Butylbenzylphthalate	1	122.9281	0	100	123	50	130
3,3'-Dichlorobenzidine	1	101.0816	0	100	101	1	150
Benzo[a]anthracene	1	100.2255	0	100	100	70	130
Chrysene	1	112.0647	0	100	112	50	130
bis(2-Ethylhexyl)phthalate	1	122.0658	0	100	122	70	130
Di-n-octylphthalate	1	115.7589	0	100	116	70	130
Benzo[b]fluoranthene	1	126.0187	0	100	126	70	130
Benzo[k]fluoranthene	1	114.5974	0	100	115	70	130
Benzo[a]pyrene	1	107.9386	0	100	108	70	130
Indeno[1,2,3-cd]pyrene	1	121.5484	0	100	122	70	130
Dibenzo[a,h]anthracene	1	116.3226	0	100	116	70	130
Benzo[g,h,i]perylene	1	112.1183	0	100	112	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB98463
Blank Data File: 7M119052.D
Matrix: Aqueous

Blank Analysis Date: 01/12/22 09:14
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD28123-003(T)	10M89146.D	01/13/22 19:12
AD28123-003(T)(M	10M89144.D	01/13/22 18:28
AD28123-003(T)(M	10M89143.D	01/13/22 18:06

FORM 4
Blank Summary

Blank Number: WMB98481
Blank Data File: 10M89142.D
Matrix: Aqueous

Blank Analysis Date: 01/13/22 14:55
Blank Extraction Date: 01/13/22
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD28258-001	10M89147.D	01/13/22 19:35
AD28258-003	10M89149.D	01/13/22 20:19
AD28258-004	10M89150.D	01/13/22 20:41
AD28258-005	10M89151.D	01/13/22 21:04
AD28258-006	10M89152.D	01/13/22 21:26
AD28258-007	10M89153.D	01/13/22 21:48
AD28258-008	10M89168.D	01/14/22 13:29
AD28258-009	10M89160.D	01/14/22 10:31
AD28258-010	10M89161.D	01/14/22 10:53
AD28258-011	10M89162.D	01/14/22 11:16
AD28258-012	10M89163.D	01/14/22 11:38
AD28258-013	10M89165.D	01/14/22 12:22
AD28258-014	10M89166.D	01/14/22 12:45
AD28258-015	10M89167.D	01/14/22 13:07
WMB98481(MS)	10M89141.D	01/13/22 14:33

FORM 4
Blank Summary

Blank Number: WMB98497
Blank Data File: 9M110725.D
Matrix: Aqueous

Blank Analysis Date: 01/16/22 13:06
Blank Extraction Date: 01/15/22
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD28258-002(R)	9M110742.D	01/16/22 19:32
WMB98497(MS)	10M89177.D	01/16/22 13:59

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M89066.D
Analysis Date: 01/06/22 09:23
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.944 to 9.960 min

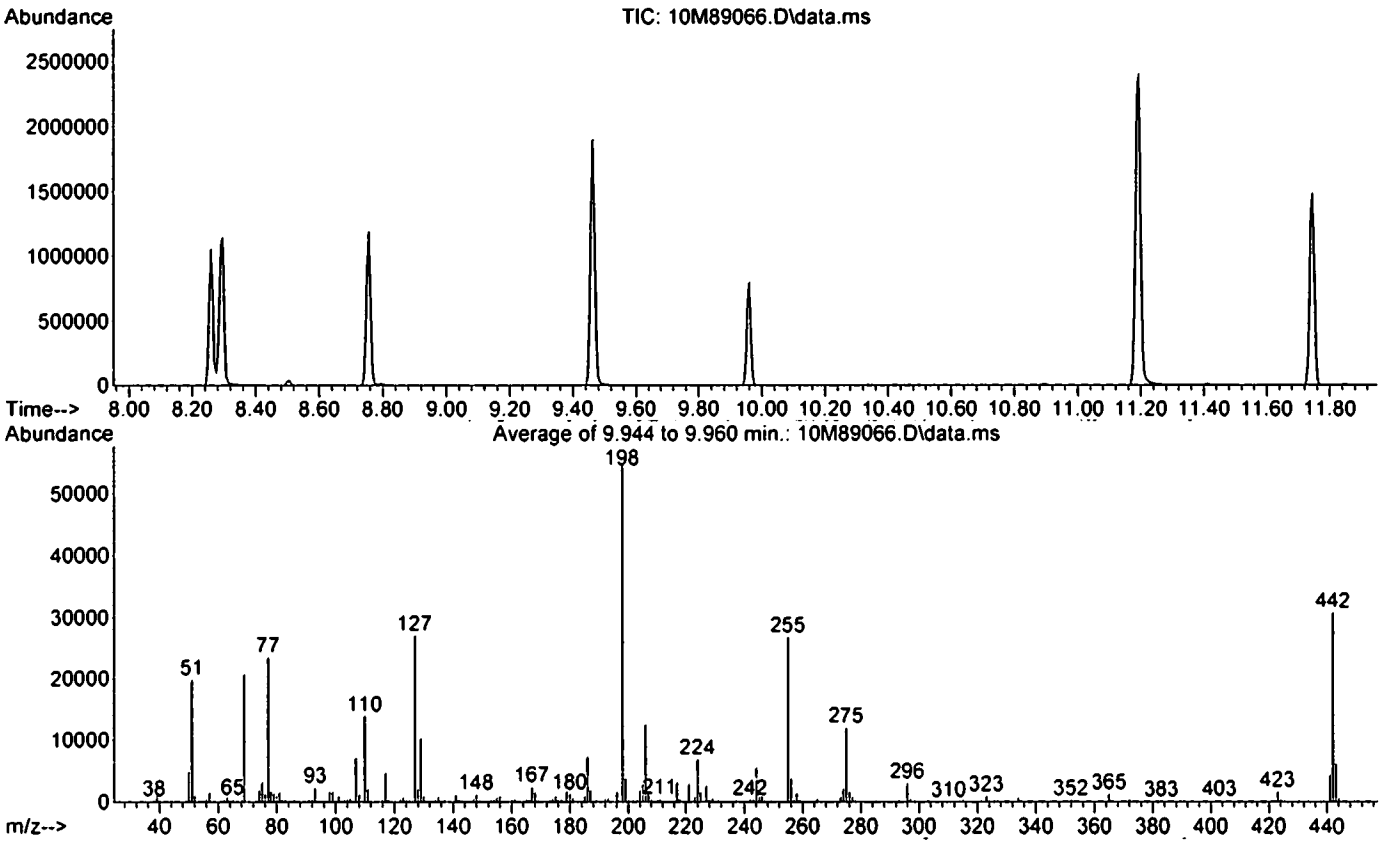
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	36.2	19872	PASS
68	69	0.00	2	1.6	334	PASS
69	198	0.00	100	38.0	20858	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.4	27103	PASS
197	198	0.00	1	0.3	183	PASS
198	198	100	100	100.0	54897	PASS
199	198	5	9	6.8	3724	PASS
275	198	10	30	21.9	12046	PASS
365	198	1	100	2.3	1243	PASS
441	443	0.01	100	72.7	4427	PASS
442	198	40	100	56.1	30810	PASS
443	442	17	23	19.8	6086	PASS

Data File	Sample Number	Analysis Date:
10M89067.D	CAL BNA@2PPM	01/06/22 09:45
10M89068.D	CAL BNA@10PPM	01/06/22 10:07
10M89069.D	CAL BNA@196PP	01/06/22 10:33
10M89070.D	CAL BNA@160PP	01/06/22 10:55
10M89071.D	CAL BNA@120PP	01/06/22 11:17
10M89072.D	CAL BNA@80PPM	01/06/22 11:40
10M89073.D	CAL BNA@20PPM	01/06/22 12:02
10M89074.D	CAL BNA@0.5PP	01/06/22 12:24
10M89075.D	CAL BNA@50PPM	01/06/22 12:46
10M89076.D	ICV BNA@50PPM	01/06/22 13:19
10M89077.D	BNA MDL(AO)-1	01/06/22 13:41
10M89078.D	WMB98417(MS)	01/06/22 14:03
10M89079.D	WMB98417	01/06/22 14:25
10M89080.D	AD28121-001	01/06/22 14:48
10M89081.D	AD28121-002	01/06/22 15:10
10M89082.D	AD28121-003	01/06/22 15:32
10M89083.D	AD28121-004	01/06/22 15:54
10M89084.D	AD28121-001(3X)	01/06/22 16:17
10M89085.D	AD28086-001(T)	01/06/22 16:39
10M89086.D	AD28086-001(T)(M	01/06/22 17:01
10M89087.D	AD28086-001(T)(M	01/06/22 17:23

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-06-22\
Data File : 10M89066.D
Acq On : 6 Jan 2022 9:23
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_1220.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Dec 21 08:21:09 2021



Spectrum Information: Average of 9.944 to 9.960 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	19872	PASS
68	69	0.00	2	1.6	334	PASS
69	198	0.00	100	38.0	20858	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.4	27103	PASS
197	198	0.00	1	0.3	183	PASS
198	198	100	100	100.0	54897	PASS
199	198	5	9	6.8	3724	PASS
275	198	10	30	21.9	12046	PASS
365	198	1	100	2.3	1243	PASS
441	443	0.01	100	72.7	4427	PASS
442	198	40	100	56.1	30810	PASS
443	442	17	23	19.8	6086	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9

Data File: 9M110575.D
Analysis Date: 01/07/22 09:12
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.060 to 10.066 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	42.4	24120	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.8	26104	PASS
70	69	0.00	2	0.3	86	PASS
127	198	40	60	50.8	28940	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56952	PASS
199	198	5	9	7.5	4261	PASS
275	198	10	30	27.4	15595	PASS
365	198	1	100	3.9	2227	PASS
441	443	0.01	100	74.3	5889	PASS
442	198	40	100	67.4	38368	PASS
443	442	17	23	20.7	7931	PASS

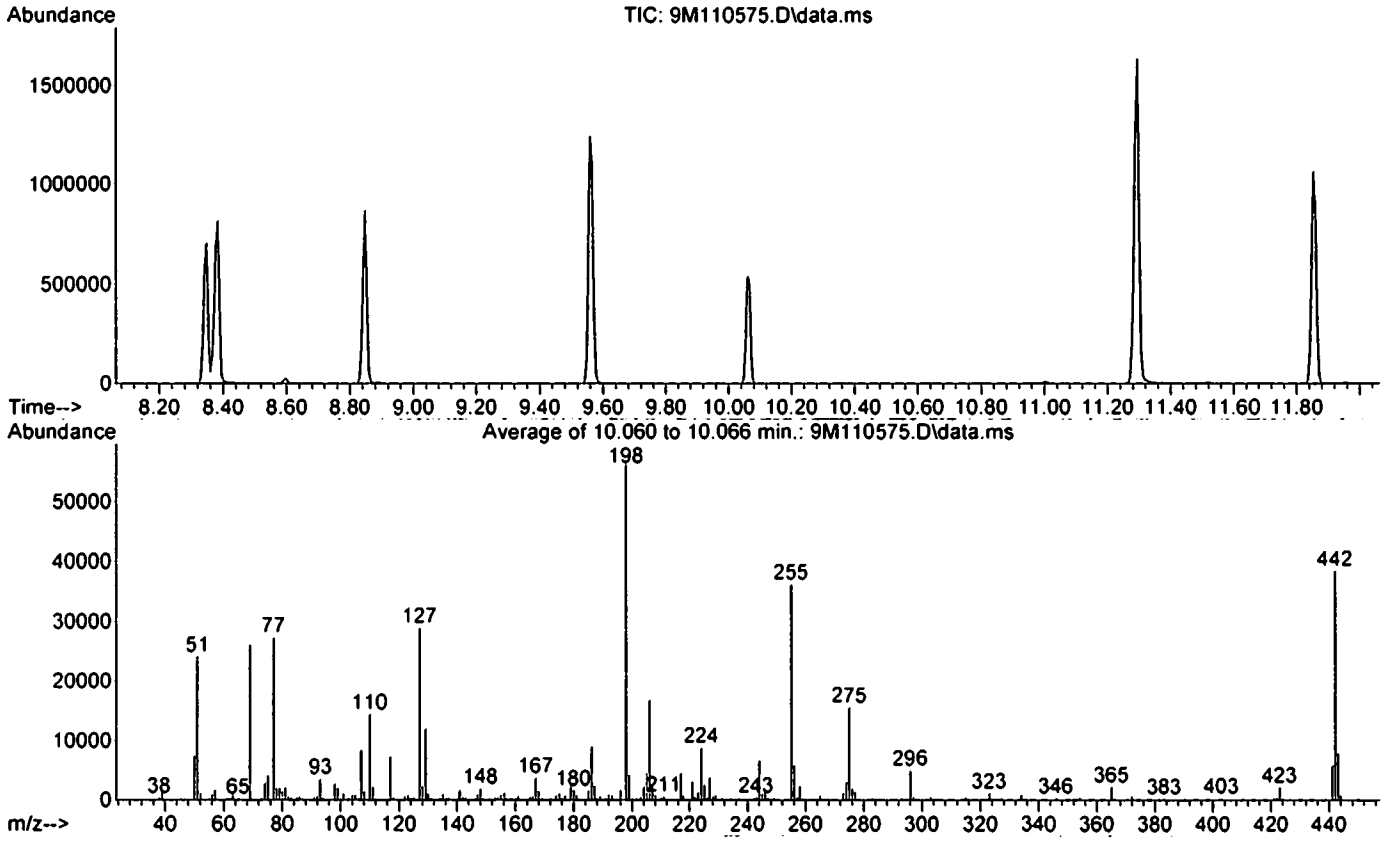
Data File	Sample Number	Analysis Date:
9M110576.D	BNA@50PPM	01/07/22 09:41
9M110577.D	CAL BNA@50PPM	01/07/22 11:26
9M110578.D	CAL BNA@2PPM	01/07/22 11:59
9M110579.D	CAL BNA@10PPM	01/07/22 12:22
9M110580.D	CAL BNA@196PP	01/07/22 12:45
9M110581.D	CAL BNA@160PP	01/07/22 13:08
9M110582.D	CAL BNA@120PP	01/07/22 13:31
9M110583.D	CAL BNA@80PPM	01/07/22 13:54
9M110584.D	CAL BNA@20PPM	01/07/22 14:16
9M110585.D	CAL BNA@0.5PP	01/07/22 14:39
9M110586.D	CAL BNA@50PPM	01/07/22 15:02
9M110587.D	ICV BNA@50PPM	01/07/22 15:25
9M110588.D	BNA MDL(AQ)-2	01/07/22 15:48
9M110589.D	BNA MDL(S)-2	01/07/22 16:11
9M110590.D	SMB98421	01/07/22 16:34

DFTPP

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-07-22\
Data File : 9M110575.D
Acq On : 7 Jan 2022 9:12
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0106.M
Title : @GCMS_9,mg,625,8270
Last Update : Thu Jan 06 13:25:37 2022



Spectrum Information: Average of 10.060 to 10.066 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.4	24120	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.8	26104	PASS
70	69	0.00	2	0.3	86	PASS
127	198	40	60	50.8	28940	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56952	PASS
199	198	5	9	7.5	4261	PASS
275	198	10	30	27.4	15595	PASS
365	198	1	100	3.9	2227	PASS
441	443	0.01	100	74.3	5889	PASS
442	198	40	100	67.4	38368	PASS
443	442	17	23	20.7	7931	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 10M89134.D
Instrument: GCMS 10 **Analysis Date:** 01/13/22 10:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.944 to 9.950 min

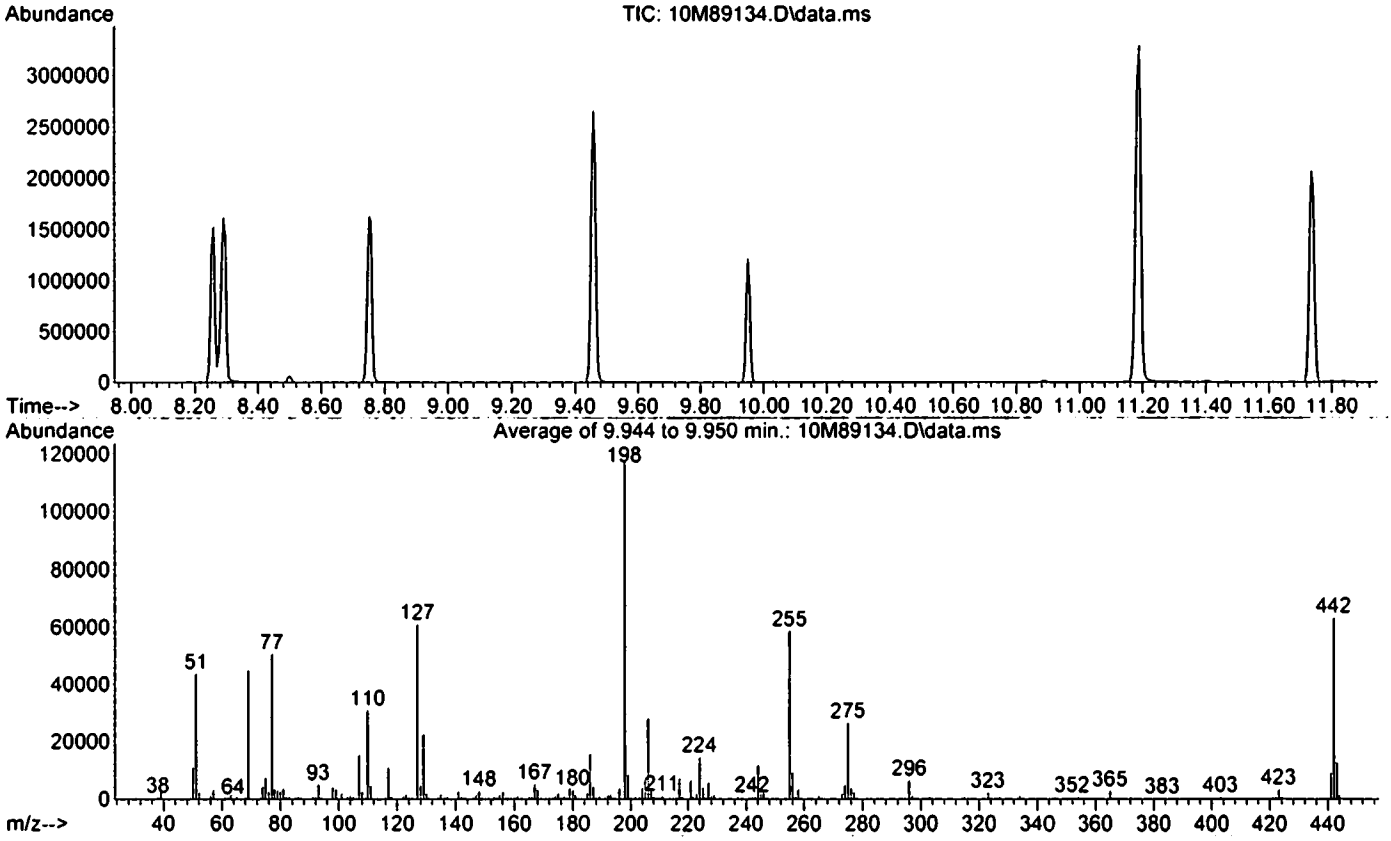
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.1	43764	PASS
68	69	0.00	2	1.6	739	PASS
69	198	0.00	100	38.2	45080	PASS
70	69	0.00	2	0.5	210	PASS
127	198	40	60	51.7	60972	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	117932	PASS
199	198	5	9	7.1	8322	PASS
275	198	10	30	22.4	26464	PASS
365	198	1	100	2.3	2756	PASS
441	443	0.01	100	71.9	9016	PASS
442	198	40	100	53.6	63204	PASS
443	442	17	23	19.8	12539	PASS

Data File	Sample Number	Analysis Date:
10M89135.D	CAL BNA@50PPM	01/13/22 10:23
10M89136.D	OMB98479(MS)	01/13/22 10:49
10M89137.D	OMB98479	01/13/22 11:11
10M89138.D	AD28250-003	01/13/22 11:33
10M89139.D	AD28250-002(20X)	01/13/22 11:56
10M89140.D	SMB98484(MS)	01/13/22 14:11
10M89141.D	WMB98481(MS)	01/13/22 14:33
10M89142.D	WMB98481	01/13/22 14:55
10M89143.D	AD28123-003(T)(M	01/13/22 18:06
10M89144.D	AD28123-003(T)(M	01/13/22 18:28
10M89145.D	EF-SPLP V-363754	01/13/22 18:50
10M89146.D	AD28123-003(T)	01/13/22 19:12
10M89147.D	AD28258-001	01/13/22 19:35
10M89148.D	AD28258-002	01/13/22 19:57
10M89149.D	AD28258-003	01/13/22 20:19
10M89150.D	AD28258-004	01/13/22 20:41
10M89151.D	AD28258-005	01/13/22 21:04
10M89152.D	AD28258-006	01/13/22 21:26
10M89153.D	AD28258-007	01/13/22 21:48
10M89154.D	AD28258-008	01/13/22 22:10

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-13-22\
Data File : 10M89134.D
Acq On : 13 Jan 2022 10:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_0106.M
Title : @GCMS_10,mg,625,8270
Last Update : Thu Jan 06 13:12:48 2022



Spectrum Information: Average of 9.944 to 9.950 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.1	43764	PASS
68	69	0.00	2	1.6	739	PASS
69	198	0.00	100	38.2	45080	PASS
70	69	0.00	2	0.5	210	PASS
127	198	40	60	51.7	60972	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	117932	PASS
199	198	5	9	7.1	8322	PASS
275	198	10	30	22.4	26464	PASS
365	198	1	100	2.3	2756	PASS
441	443	0.01	100	71.9	9016	PASS
442	198	40	100	53.6	63204	PASS
443	442	17	23	19.8	12539	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M89155.D
Analysis Date: 01/14/22 08:34
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.933 to 9.944 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	42.3	18725	PASS
68	69	0.00	2	1.6	311	PASS
69	198	0.00	100	44.4	19668	PASS
70	69	0.00	2	0.6	115	PASS
127	198	40	60	55.2	24433	PASS
197	198	0.00	1	0.5	205	PASS
198	198	100	100	100.0	44291	PASS
199	198	5	9	7.1	3156	PASS
275	198	10	30	20.2	8958	PASS
365	198	1	100	1.9	837	PASS
441	443	0.01	100	69.7	2574	PASS
442	198	40	100	41.8	18510	PASS
443	442	17	23	19.9	3692	PASS

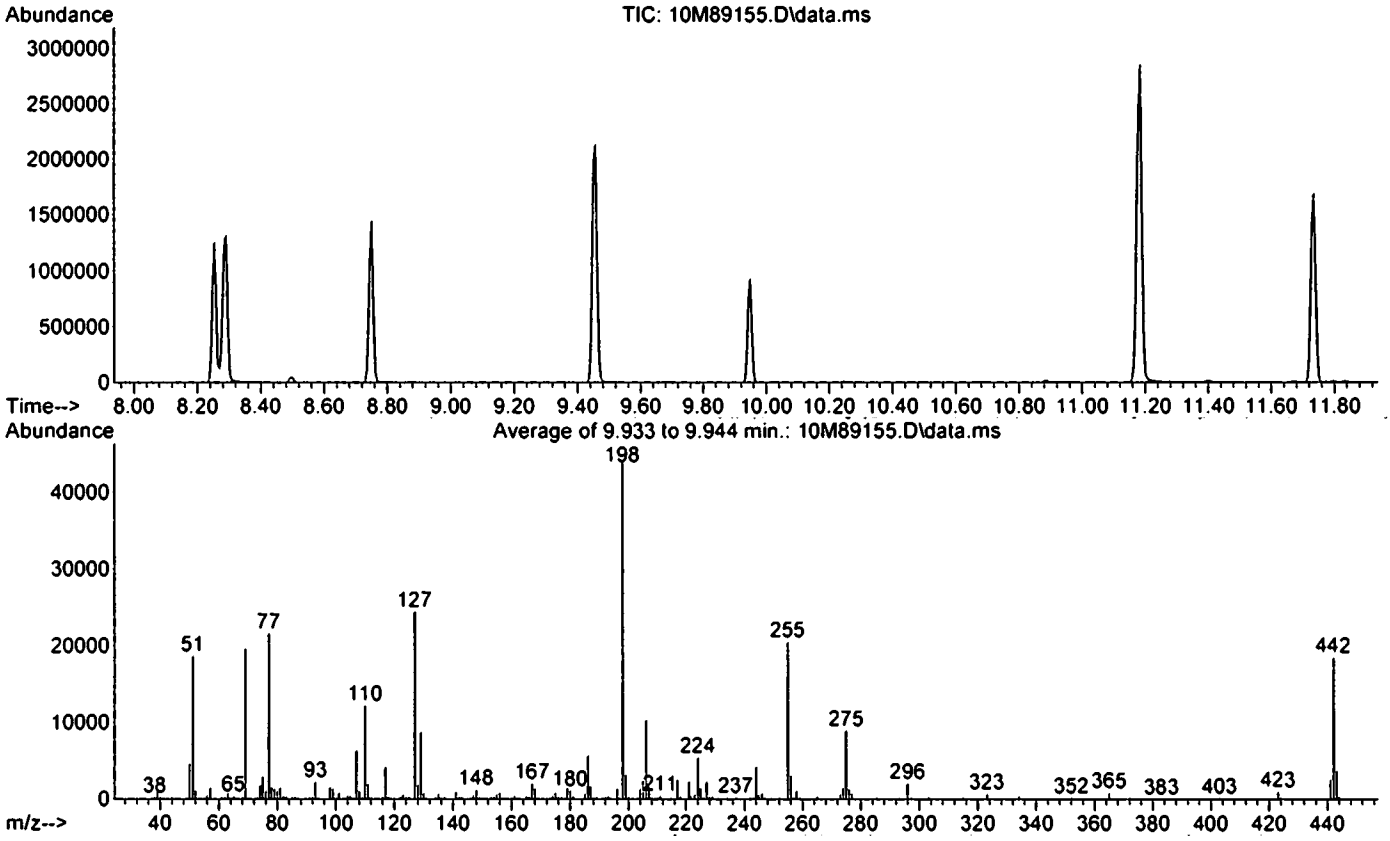
Data File	Sample Number	Analysis Date:
10M89156.D	CAL BNA@50PPM	01/14/22 09:00
10M89157.D	AD28274-006	01/14/22 09:24
10M89158.D	AD28274-007	01/14/22 09:47
10M89159.D	AD28274-008	01/14/22 10:09
10M89160.D	AD28258-009	01/14/22 10:31
10M89161.D	AD28258-010	01/14/22 10:53
10M89162.D	AD28258-011	01/14/22 11:16
10M89163.D	AD28258-012	01/14/22 11:38
10M89164.D	WMB95912	01/14/22 12:00
10M89165.D	AD28258-013	01/14/22 12:22
10M89166.D	AD28258-014	01/14/22 12:45
10M89167.D	AD28258-015	01/14/22 13:07
10M89168.D	AD28258-008	01/14/22 13:29
10M89169.D	SMB98491	01/14/22 14:06
10M89170.D	WMB98488(MS)	01/14/22 14:28
10M89171.D	WMB98488	01/14/22 14:50

DFTPP

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-14-22\
Data File : 10M89155.D
Acq On : 14 Jan 2022 8:34
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_0106.M
Title : @GCMS_10,mg,625,8270
Last Update : Thu Jan 06 13:12:48 2022



Spectrum Information: Average of 9.933 to 9.944 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.3	18725	PASS
68	69	0.00	2	1.6	311	PASS
69	198	0.00	100	44.4	19668	PASS
70	69	0.00	2	0.6	115	PASS
127	198	40	60	55.2	24433	PASS
197	198	0.00	1	0.5	205	PASS
198	198	100	100	100.0	44291	PASS
199	198	5	9	7.1	3156	PASS
275	198	10	30	20.2	8958	PASS
365	198	1	100	1.9	837	PASS
441	443	0.01	100	69.7	2574	PASS
442	198	40	100	41.8	18510	PASS
443	442	17	23	19.9	3692	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9

Data File: 9M110723.D
Analysis Date: 01/16/22 11:24
Method: EPA 8270E

Tune Scan/Time Range: Scan 1296

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.2	28904	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.0	27552	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.0	29376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	61216	PASS
199	198	5	9	6.5	3968	PASS
275	198	10	30	22.2	13608	PASS
365	198	1	100	2.9	1763	PASS
441	443	0.01	100	68.5	5089	PASS
442	198	40	100	56.7	34720	PASS
443	442	17	23	21.4	7424	PASS

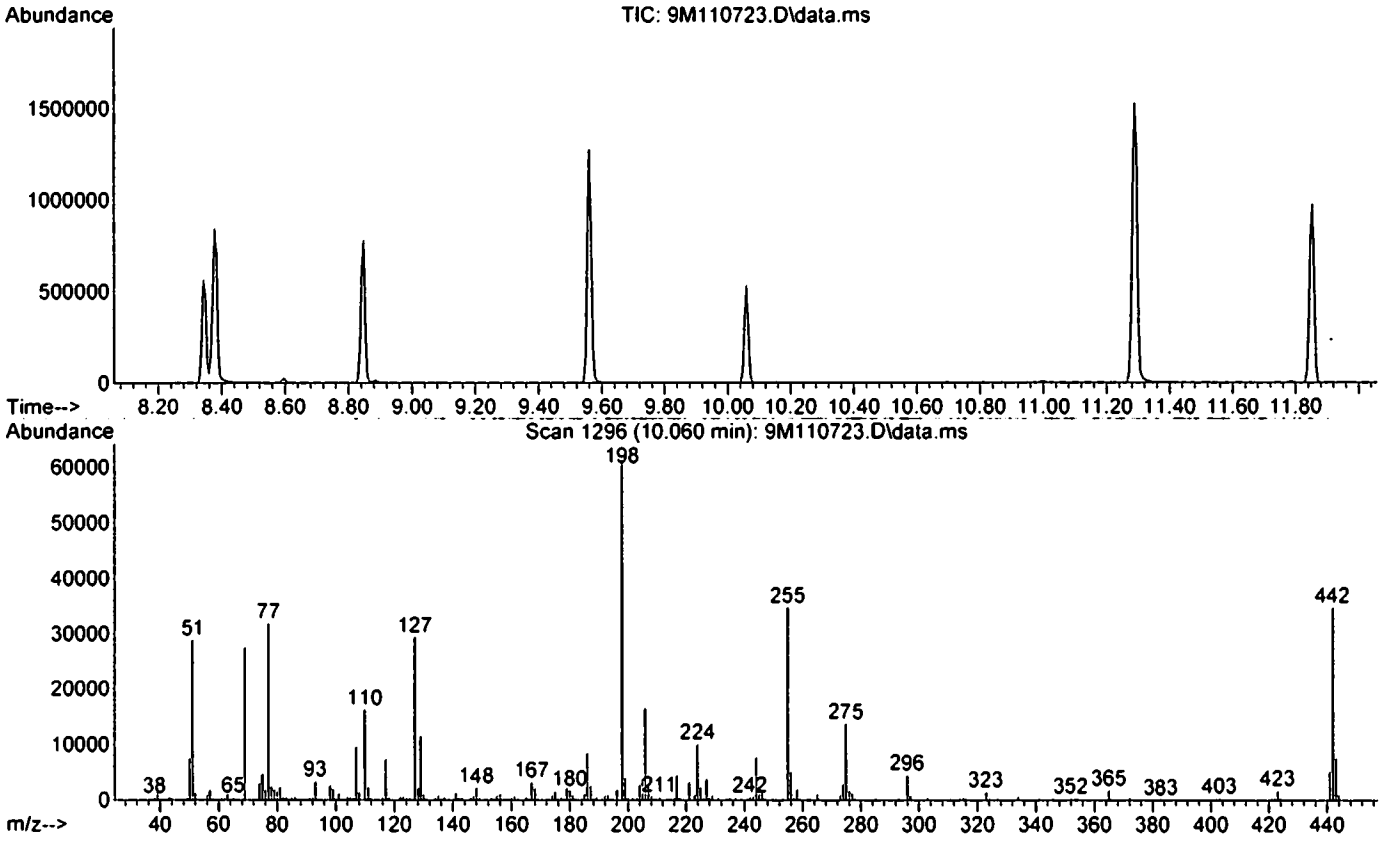
Data File	Sample Number	Analysis Date:
9M110724.D	CAL BNA@50PPM	01/16/22 12:02
9M110725.D	WMB98497	01/16/22 13:06
9M110726.D	WMB98496	01/16/22 13:29
9M110727.D	AD28256-001	01/16/22 13:51
9M110728.D	AD28256-002	01/16/22 14:14
9M110729.D	AD28256-004	01/16/22 14:37
9M110730.D	AD28256-005	01/16/22 14:59
9M110731.D	AD28256-006	01/16/22 15:22
9M110732.D	AD28256-007	01/16/22 15:45
9M110733.D	AD28256-010	01/16/22 16:08
9M110734.D	AD28290-001	01/16/22 16:30
9M110735.D	AD28290-002	01/16/22 16:53
9M110736.D	AD28290-003	01/16/22 17:16
9M110737.D	AD28290-004	01/16/22 17:38
9M110738.D	AD28290-005	01/16/22 18:01
9M110739.D	AD28290-006	01/16/22 18:24
9M110740.D	AD28290-007	01/16/22 18:46
9M110741.D	AD28290-008	01/16/22 19:09
9M110742.D	AD28258-002(R)	01/16/22 19:32
9M110743.D	AD28275-017	01/16/22 19:54
9M110744.D	AD28275-018	01/16/22 20:17
9M110745.D	AD28275-019	01/16/22 20:40
9M110746.D	AD28275-021	01/16/22 21:03
9M110747.D	AD28275-022	01/16/22 21:25
9M110748.D	AD28275-025	01/16/22 21:48
9M110749.D	AD28275-026	01/16/22 22:11
9M110750.D	AD28275-027	01/16/22 22:34
9M110751.D	AD28275-029	01/16/22 22:56

DFTPP

Data Path : G:\GcMsData\2022\GCMS_9\Data\01-16-22\
Data File : 9M110723.D
Acq On : 16 Jan 2022 11:24
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0107.M
Title : @GCMS_9,mg,625,8270
Last Update : Fri Jan 07 15:22:31 2022



Spectrum Information: Scan 1296

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	28904	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.0	27552	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.0	29376	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	61216	PASS
199	198	5	9	6.5	3968	PASS
275	198	10	30	22.2	13608	PASS
365	198	1	100	2.9	1763	PASS
441	443	0.01	100	68.5	5089	PASS
442	198	40	100	56.7	34720	PASS
443	442	17	23	21.4	7424	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 10M89172.D
Instrument: GCMS 10 **Analysis Date:** 01/16/22 11:26
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.944 to 9.955 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	32.6	24603	PASS
68	69	0.00	2	1.6	419	PASS
69	198	0.00	100	33.9	25568	PASS
70	69	0.00	2	0.2	54	PASS
127	198	40	60	46.8	35296	PASS
197	198	0.00	1	0.5	344	PASS
198	198	100	100	100.0	75405	PASS
199	198	5	9	7.0	5251	PASS
275	198	10	30	23.9	18044	PASS
365	198	1	100	2.6	1969	PASS
441	443	0.01	100	78.4	7942	PASS
442	198	40	100	70.0	52752	PASS
443	442	17	23	19.2	10135	PASS

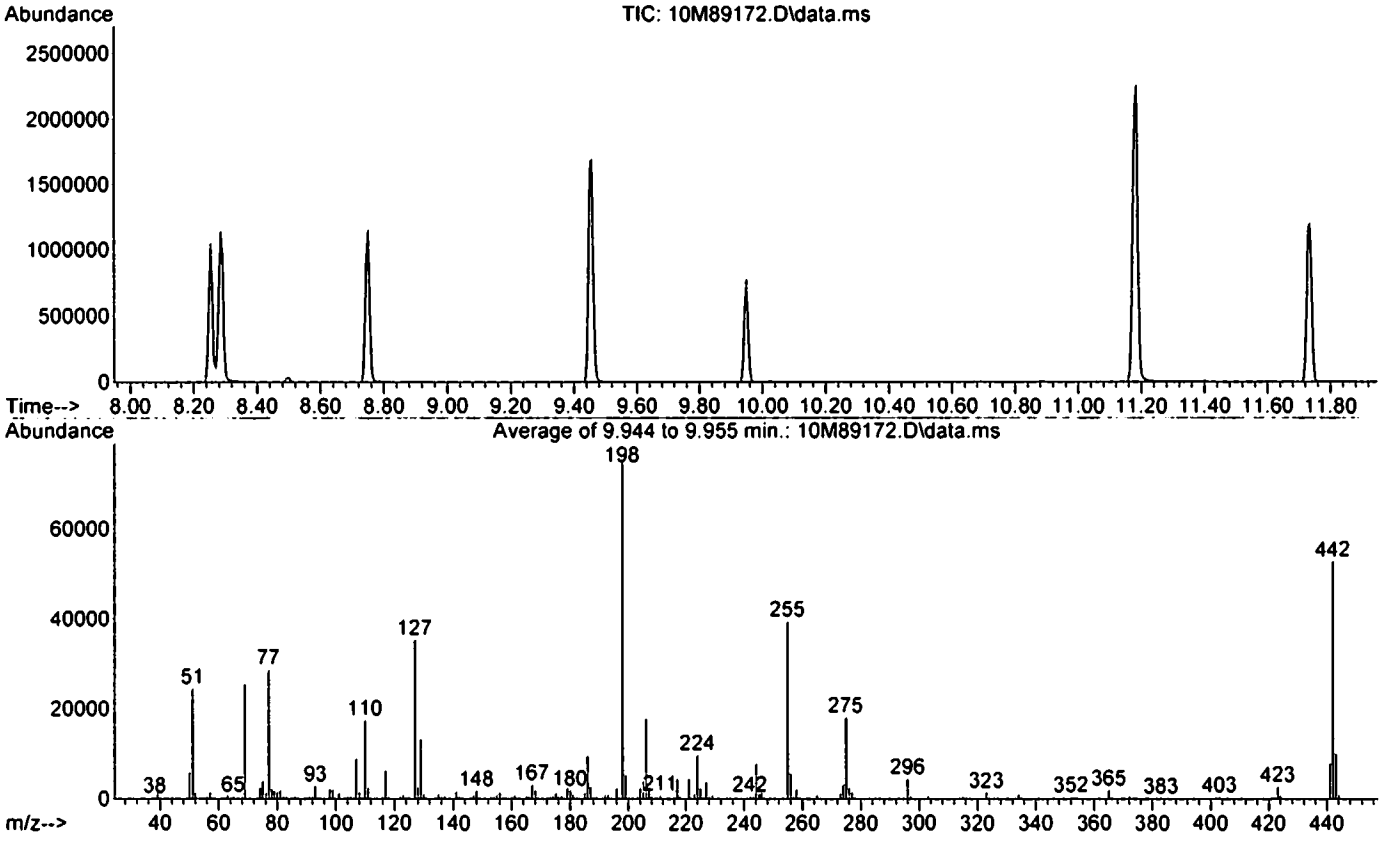
Data File	Sample Number	Analysis Date:
10M89173.D	CAL BNA@50PPM	01/16/22 12:03
10M89174.D	WMB98496	01/16/22 12:53
10M89175.D	WMB98497	01/16/22 13:15
10M89176.D	WMB98496(MS)	01/16/22 13:37
10M89177.D	WMB98497(MS)	01/16/22 13:59
10M89178.D	AD28281-010	01/16/22 14:21
10M89179.D	AD28281-024(MS:	01/16/22 14:44
10M89180.D	AD28281-025(MSD	01/16/22 15:06
10M89181.D	AD28256-003	01/16/22 15:28
10M89182.D	AD28256-008(MS:	01/16/22 15:50
10M89183.D	AD28256-009(MSD	01/16/22 16:12
10M89184.D	AD28275-011	01/16/22 16:34
10M89185.D	AD28275-012(MS:	01/16/22 16:56
10M89186.D	AD28275-013(MSD	01/16/22 17:18
10M89187.D	AD28281-008	01/16/22 17:40
10M89188.D	AD28281-009	01/16/22 18:02
10M89189.D	AD28281-011	01/16/22 18:25
10M89190.D	AD28281-012	01/16/22 18:47
10M89191.D	AD28281-013	01/16/22 19:09
10M89192.D	AD28281-014	01/16/22 19:31
10M89193.D	AD28281-015	01/16/22 19:53
10M89194.D	AD28281-016	01/16/22 20:15
10M89195.D	AD28281-017	01/16/22 20:37
10M89196.D	AD28275-010	01/16/22 21:00
10M89197.D	AD28275-023	01/16/22 21:22
10M89198.D	AD28275-024	01/16/22 21:44
10M89199.D	AD28275-009	01/16/22 22:06
10M89200.D	AD28275-014	01/16/22 22:28
10M89201.D	AD28275-015	01/16/22 22:50
10M89202.D	AD28275-016	01/16/22 23:12
10M89203.D	AD28275-028	01/16/22 23:35

DFTPP

Data Path : G:\GcMsData\2022\GCMS_10\Data\01-16-22\
Data File : 10M89172.D
Acq On : 16 Jan 2022 11:26
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_0106.M
Title : @GCMS_10,mg,625,8270
Last Update : Thu Jan 06 13:12:48 2022



Spectrum Information: Average of 9.944 to 9.955 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.6	24603	PASS
68	69	0.00	2	1.6	419	PASS
69	198	0.00	100	33.9	25568	PASS
70	69	0.00	2	0.2	54	PASS
127	198	40	60	46.8	35296	PASS
197	198	0.00	1	0.5	344	PASS
198	198	100	100	100.0	75405	PASS
199	198	5	9	7.0	5251	PASS
275	198	10	30	23.9	18044	PASS
365	198	1	100	2.6	1969	PASS
441	443	0.01	100	78.4	7942	PASS
442	198	40	100	70.0	52752	PASS
443	442	17	23	19.2	10135	PASS

2011202 0258

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M89075.D	CAL BNA@50PPM	01/06/22 12:46	2	10M89067.D	CAL BNA@2PPM	01/06/22 09:45
3	10M89068.D	CAL BNA@10PPM	01/06/22 10:07	4	10M89073.D	CAL BNA@20PPM	01/06/22 12:02
5	10M89072.D	CAL BNA@80PPM	01/06/22 11:40	6	10M89071.D	CAL BNA@120PPM	01/06/22 11:17
7	10M89070.D	CAL BNA@160PPM	01/06/22 10:55	8	10M89069.D	CAL BNA@196PPM	01/06/22 10:33
9	10M89074.D	CAL BNA@0.5PPM	01/06/22 12:24				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.8840	1.2450	0.9981	0.9451	0.8843	0.8753	0.8801	0.9214	1.0495	0.965	2.64	0.999	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.9796	1.8968	1.8657	2.0950	2.0657	2.0133	2.0746	2.1302	----	2.02	3.08	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.3823	1.2627	1.3969	1.4662	1.4347	1.3963	1.4150	1.4703	----	1.40	3.03	0.999	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2676	2.1964	2.2375	2.4403	2.3812	2.3183	2.3378	2.3601	----	2.32	4.61	1.00	1.00	3.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.6432	1.6576	1.6768	1.8038	1.7114	1.6476	1.6266	1.6422	----	1.68	5.43	1.00	1.00	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.4648	3.5197	3.5906	3.8147	3.5808	3.4528	3.4385	3.4122	4.2073	3.61	5.52	0.999	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8191	0.8761	0.8366	0.9013	0.8460	0.8162	0.8130	0.8085	----	0.840	5.56	1.00	1.00	4.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.2413	2.4285	2.3800	2.5003	2.3213	2.2022	2.1699	2.1288	2.7268	2.34	5.58	0.999	1.00	8.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.6972	2.6826	2.7663	2.9592	2.8230	2.6902	2.6498	2.6261	----	2.74	5.48	0.999	1.00	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.1412	3.4023	3.2571	3.4823	3.2629	3.1134	3.0416	3.0001	----	3.21	5.49	0.999	1.00	5.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.5799	2.5328	2.6660	2.8504	2.6997	2.5832	2.5438	2.5095	----	2.62	5.62	0.999	1.00	4.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.2947	2.5445	2.5138	2.5768	2.3024	2.1640	2.1136	2.0548	----	2.32	5.66	0.998	1.00	8.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.8262	3.1582	3.0179	3.1530	2.9261	2.7740	2.7638	2.7052	----	2.92	5.75	0.999	1.00	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4546	1.6114	1.5203	1.5518	1.4539	1.3822	1.3667	1.4332	----	1.47	5.82	0.999	0.999	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.3714	1.4928	1.4606	1.4639	1.3742	1.3286	1.2972	1.3654	----	1.39	5.94	0.999	0.999	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8085	0.7234	0.7762	0.8590	0.8310	0.7937	0.7953	0.8352	----	0.803	5.91	0.999	0.999	5.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3852	1.5708	1.5381	1.5015	1.3811	1.3100	1.2842	1.3502	----	1.42	6.02	0.999	0.999	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1132	1.0654	1.1364	1.1757	1.1358	1.0848	1.0789	1.1392	1.1530	1.12	6.00	0.999	0.999	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.4439	1.5988	1.5793	1.5847	1.4027	1.3124	1.2350	1.2528	----	1.43	6.13	0.997	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5003	0.5428	0.5128	0.5384	0.5066	0.4940	0.4931	0.5136	----	0.513	6.21	0.999	0.999	3.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.7184	0.7735	0.7809	0.7897	0.7181	0.6676	0.6478	0.6779	0.8298	0.734	6.13	0.998	0.998	8.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.1317	1.1289	1.1774	1.2412	1.1108	1.0203	0.9525	0.9456	1.2500	1.11	6.12	0.995	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1519	0.1467	0.1439	0.1623	0.1557	0.1522	0.1537	0.1599	----	0.153	6.25	0.999	1.00	4.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.2802	0.2795	0.2841	0.2945	0.2817	0.2697	0.2650	0.2751	----	0.279	6.26	0.999	0.999	3.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5333	0.5022	0.5410	0.5664	0.5324	0.5113	0.5077	0.5277	----	0.528	6.45	0.999	0.999	4.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1690	0.1318	0.1485	0.1737	0.1745	0.1707	0.1699	0.1739	----	0.164	6.51	1.00	1.00	9.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.2956	0.2859	0.3002	0.3140	0.2997	0.2859	0.2799	0.2931	0.3283	0.298	6.53	0.999	0.999	5.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2067	----	0.1001	0.1933	0.2195	0.2297	0.2348	0.2422	----	0.204	6.60	0.999	1.00	24		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3250	0.3555	0.3431	0.3475	0.3218	0.3030	0.3014	0.3041	----	0.325	6.61	0.999	0.999	6.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2647	0.2380	0.2595	0.2787	0.2698	0.2587	0.2550	0.2631	0.2694	0.262	6.69	0.999	1.00	4.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2884	0.3160	0.3033	0.3057	0.2900	0.2789	0.2737	0.2802	----	0.292	6.76	0.999	0.999	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9702	1.0718	1.0177	1.0265	0.9593	0.9058	0.8728	0.8796	1.2369	0.993	6.82	0.999	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3839	0.3698	0.3948	0.4133	0.3829	0.3616	0.3479	0.3517	0.4536	0.384	6.85	0.999	0.999	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1519	0.1617	0.1585	0.1611	0.1556	0.1507	0.1493	0.1514	----	0.155	6.90	1.00	1.00	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0934	0.0626	0.0773	0.0960	0.0982	0.0947	0.1033	0.1076	----	0.0917	7.12	0.996	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2439	0.2119	0.2371	0.2554	0.2502	0.2434	0.2400	0.2479	----	0.241	7.21	0.999	0.999	5.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6182	0.6307	0.6506	0.6680	0.6118	0.5813	0.5572	0.5618	----	0.610	7.35	0.999	0.999	6.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6049	0.6302	0.6446	0.6540	0.6012	0.5655	0.5479	0.5490	----	0.600	7.43	0.999	1.00	7.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6078	0.6305	0.6440	0.6605	0.6077	0.5753	0.5519	0.5518	----	0.604	7.35	0.998	1.00	6.8		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7456	0.7968	0.8013	0.8028	0.7449	0.7067	0.6766	0.6780	----	0.744	7.72	0.998	1.00	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5505	0.5976	0.5882	0.5806	0.5483	0.5241	0.5082	0.5125	----	0.551	7.48	0.999	1.00	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Avg Rsd: 7.321

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M89075.D	CAL BNA@50PPM	01/06/22 12:46	2	10M89067.D	CAL BNA@2PPM	01/06/22 09:45
3	10M89068.D	CAL BNA@10PPM	01/06/22 10:07	4	10M89073.D	CAL BNA@20PPM	01/06/22 12:02
5	10M89072.D	CAL BNA@80PPM	01/06/22 11:40	6	10M89071.D	CAL BNA@120PPM	01/06/22 11:17
7	10M89070.D	CAL BNA@160PPM	01/06/22 10:55	8	10M89069.D	CAL BNA@196PPM	01/06/22 10:33
9	10M89074.D	CAL BNA@0.5PPM	01/06/22 12:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3214	0.2677	0.3058	0.3221	0.3329	0.3260	0.3277	0.3314	----	0.317	7.47	1.00	1.00	6.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4110	0.2972	0.3423	0.3806	0.3997	0.3835	0.3644	0.4074	----	0.373	7.56	0.995	0.995	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3918	0.3382	0.3778	0.4103	0.3879	0.3869	0.3986	0.4001	----	0.386	7.60	1.00	1.00	5.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3841	1.4391	1.4347	1.4309	1.3941	1.3511	1.3360	1.3736	----	1.39	7.63	1.00	1.00	2.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1493	1.2297	1.2088	1.2021	1.1277	1.0899	1.0664	1.0808	----	1.14	7.75	1.00	1.00	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9116	0.9779	0.9854	0.9974	0.8828	0.8155	0.7625	0.7351	----	0.884	8.02	0.992	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9116	0.9779	0.9854	0.9974	0.8828	0.8155	0.7625	0.7351	----	0.884	8.02	0.992	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8035	0.8820	0.8425	0.8502	0.8003	0.7695	0.7475	0.7580	----	0.807	7.80	0.999	1.00	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3286	0.2746	0.3077	0.3383	0.3291	0.3203	0.3162	0.3259	----	0.318	7.82	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4473	0.4360	0.4692	0.4708	0.4431	0.4217	0.3960	0.3851	----	0.434	8.01	0.996	1.00	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8410	1.8319	1.9238	1.9799	1.8439	1.7534	1.6934	1.6953	----	1.82	8.10	0.998	1.00	5.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2525	1.2666	1.3043	1.3124	1.2542	1.2126	1.2032	1.2120	----	1.25	7.97	1.00	1.00	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2852	0.2430	0.2866	0.3083	0.2869	0.2654	0.2539	0.2476	----	0.272	8.02	0.996	1.00	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1410	1.2443	1.2237	1.2113	1.1160	1.0643	1.0278	1.0306	----	1.13	8.25	0.999	1.00	7.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3430	0.2612	0.3326	0.3532	0.3492	0.3407	0.3324	0.3375	----	0.331	8.17	1.00	1.00	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1565	----	0.0933	0.1378	0.1784	0.1841	0.1833	0.1901	----	0.161	8.26	0.999	0.999	22	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6548	1.7377	1.7513	1.7216	1.6313	1.5509	1.5040	1.5177	2.0905	1.68	8.40	0.999	1.00	11	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3910	0.2820	0.3508	0.4011	0.4048	0.3954	0.3933	0.4036	----	0.378	8.38	1.00	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2160	0.1218	0.1886	0.2105	0.2208	0.2166	0.2127	0.2238	----	0.201	8.29	0.999	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3139	0.2462	0.2914	0.3182	0.3245	0.3198	0.3170	0.3205	----	0.306	8.51	1.00	1.00	8.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3127	1.3499	1.4030	1.3910	1.2861	1.2140	1.1616	1.1551	----	1.28	8.72	0.998	1.00	7.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6279	0.6521	0.6388	0.6454	0.6247	0.5966	0.5752	0.5789	----	0.617	8.72	0.999	1.00	4.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2024	1.1291	1.2358	1.2489	1.2253	1.1815	1.1727	1.1894	----	1.20	8.60	1.00	1.00	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3611	0.2742	0.3315	0.3688	0.3646	0.3607	0.3582	0.3682	----	0.348	8.74	1.00	1.00	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3526	0.2550	0.3285	0.3514	0.3600	0.3513	0.3476	0.3545	----	0.338	9.36	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1162	----	0.0789	0.1052	0.1250	0.1266	0.1269	0.1312	----	0.116	8.76	0.999	1.00	16	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6108	0.5902	0.6316	0.6428	0.6101	0.5774	0.5690	0.5751	----	0.601	8.83	0.999	1.00	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0939	0.0682	0.0832	0.0926	0.1011	0.0986	0.1017	0.1051	----	0.0931	8.96	0.999	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.5763	0.5717	0.6078	0.6055	0.6292	0.5490	0.5892	0.6038	----	0.592	8.87	0.998	0.998	4.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1874	0.1794	0.1860	0.1940	0.1929	0.1855	0.1850	0.1879	----	0.187	9.20	1.00	1.00	2.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.1939	0.2005	0.1995	0.1985	0.2011	0.1948	0.1956	0.2023	----	0.198	9.27	1.00	1.00	1.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3680	0.3130	0.3840	0.3799	0.3609	0.3344	0.3185	0.3166	----	0.347	9.54	0.997	0.999	8.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1331	----	0.1035	0.1264	0.1425	0.1415	0.1445	0.1485	----	0.134	9.46	0.999	1.00	12	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0182	1.1031	1.0890	1.0827	1.0017	0.9452	0.9180	0.9310	----	1.01	9.70	0.999	0.999	7.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0367	1.0102	1.0648	1.1027	1.0327	0.9738	0.9516	0.9617	----	1.02	9.76	0.999	0.999	5.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9745	0.8995	0.9876	1.0214	0.9725	0.9234	0.9092	0.9233	----	0.951	9.93	0.999	0.999	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.0815	0.8162	0.9973	1.0967	1.1054	1.0558	1.0337	1.0584	0.8853	1.01	10.31	0.999	0.999	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.0857	0.9547	1.0645	1.1197	1.0819	1.0299	1.0000	1.0181	----	1.04	11.03	0.999	0.999	5.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3228	1.2433	1.3418	1.3844	1.3217	1.2456	1.2386	1.2655	----	1.30	11.29	0.999	0.999	4.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.7635	0.3773	0.5668	0.7448	0.7696	0.7279	0.7149	0.7345	----	0.675	11.19	0.999	0.999	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6595	0.6115	0.6355	0.6667	0.6823	0.6629	0.6741	0.7255	----	0.665	11.48	0.998	0.999	5.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.321
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M89075.D	CAL BNA@50PPM	01/06/22 12:46	2	10M89067.D	CAL BNA@2PPM	01/06/22 09:45
3	10M89068.D	CAL BNA@10PPM	01/06/22 10:07	4	10M89073.D	CAL BNA@20PPM	01/06/22 12:02
5	10M89072.D	CAL BNA@80PPM	01/06/22 11:40	6	10M89071.D	CAL BNA@120PPM	01/06/22 11:17
7	10M89070.D	CAL BNA@160PPM	01/06/22 10:55	8	10M89069.D	CAL BNA@196PPM	01/06/22 10:33
9	10M89074.D	CAL BNA@0.5PPM	01/06/22 12:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2407	0.2103	0.2339	0.2394	0.2501	0.2427	0.2483	0.2575	----	0.240	11.42	0.999	1.00	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4349	0.3333	0.3987	0.4297	0.4461	0.4288	0.4274	0.4404	----	0.417	11.81	1.00	1.00	8.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5430	0.3306	0.4514	0.5273	0.5602	0.5471	0.5503	0.5733	----	0.510	12.07	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3889	0.2836	0.3571	0.3873	0.3948	0.3715	0.3623	0.3688	----	0.364	12.17	0.999	0.999	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4526	0.2621	0.3735	0.4485	0.4686	0.4516	0.4462	0.4494	----	0.419	12.69	1.00	1.00	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1719	1.1361	1.1640	1.2135	1.1582	1.1281	1.1239	1.1799	----	1.16	12.71	0.999	0.999	2.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0987	1.1899	1.1647	1.1777	1.0937	1.0220	1.0052	0.9994	----	1.09	12.76	0.999	1.00	7.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7562	0.4505	0.6639	0.7306	0.7624	0.7234	0.7027	0.7132	----	0.688	12.76	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1381	0.5124	0.8827	1.0573	1.1638	1.1300	1.1181	1.1186	----	1.02	13.51	1.00	1.00	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	0.9892	0.8461	0.9476	1.0044	0.9611	1.0342	0.9865	1.0433	----	0.977	13.92	0.999	0.999	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0444	1.0278	1.0829	1.1000	1.0433	0.9081	0.9570	0.9342	----	1.01	13.95	0.997	0.998	7.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	0.9925	0.8353	0.9309	0.9969	0.9769	0.9627	0.9645	0.9781	----	0.955	14.27	1.00	1.00	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.0573	0.9127	1.0034	1.0731	1.0596	1.0478	1.0702	1.0887	----	1.04	15.63	1.00	1.00	5.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9405	0.7699	0.8667	0.9478	0.9464	0.9358	0.9485	0.9714	----	0.916	15.66	1.00	1.00	7.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9379	0.8824	0.9139	0.9491	0.9354	0.9298	0.9549	0.9815	----	0.936	16.00	0.999	1.00	3.1	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.321
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

20111202 0261

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M110586.D	CAL BNA@50PPM	01/07/22 15:02	2	9M110578.D	CAL BNA@2PPM	01/07/22 11:59
3	9M110579.D	CAL BNA@10PPM	01/07/22 12:22	4	9M110584.D	CAL BNA@20PPM	01/07/22 14:16
5	9M110583.D	CAL BNA@80PPM	01/07/22 13:54	6	9M110582.D	CAL BNA@120PPM	01/07/22 13:31
7	9M110581.D	CAL BNA@160PPM	01/07/22 13:08	8	9M110580.D	CAL BNA@196PPM	01/07/22 12:45
9	9M110585.D	CAL BNA@0.5PPM	01/07/22 14:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Qua	0.9543	0.8376	1.0149	1.0210	0.9319	0.9065	0.9304	0.9471	0.2379	0.865	2.70	0.999	0.999	28		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.3424	2.0950	2.0843	2.3741	2.3192	2.2846	2.3696	2.4170	----	2.29	3.15	0.999	1.00	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.6486	1.3429	1.5592	1.6867	1.6416	1.5948	1.6268	1.6700	----	1.60	3.08	1.00	1.00	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.4945	2.5703	2.5308	2.6400	2.5909	2.5349	2.5937	2.6006	----	2.57	4.67	1.00	1.00	1.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.2239	2.3882	2.3054	2.5587	2.2531	2.2011	2.1963	2.1572	----	2.29	5.49	1.00	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	4.2056	4.6262	4.2935	4.6115	4.1836	4.0215	4.1349	4.0520	6.0736	4.47	5.58	1.00	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9366	1.0152	0.9772	1.0328	0.9332	0.9180	0.9217	0.9188	----	0.957	5.63	1.00	1.00	4.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Qua	2.7605	3.2459	2.7049	2.9712	2.7578	2.5744	2.6765	2.5705	3.2432	2.83	5.64	0.999	0.999	9.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.2276	3.3151	3.2408	3.5525	3.2370	3.1827	3.1845	3.2392	----	3.27	5.54	1.00	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.6675	4.2492	3.6212	4.0613	3.6831	3.5799	3.5812	3.6059	----	3.76	5.55	1.00	1.00	6.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.7067	3.0811	2.6623	2.9032	2.6628	2.6226	2.6690	2.6396	----	2.74	5.68	1.00	1.00	5.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.9476	3.5363	3.1289	3.3294	2.9640	2.9080	2.8902	2.8380	----	3.07	5.73	1.00	1.00	8.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	3.0750	3.5655	3.1358	3.4041	3.0528	3.0150	3.1350	3.0226	----	3.18	5.82	0.999	0.999	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.4910	1.6463	1.5113	1.5101	1.4724	1.4168	1.4351	1.5013	----	1.50	5.88	0.999	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.3895	1.5010	1.4177	1.4555	1.3784	1.3266	1.3168	1.4078	----	1.40	6.01	0.998	0.998	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8630	0.8602	0.8094	0.8618	0.8544	0.8270	0.8315	0.8826	----	0.849	5.98	0.999	0.999	2.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.8117	1.9447	1.9408	1.8405	1.7663	1.7259	1.7326	1.8307	----	1.82	6.09	0.998	0.999	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1600	1.1326	1.1679	1.2028	1.1522	1.1164	1.1054	1.1800	1.2058	1.16	6.06	0.998	0.999	3.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7350	1.8891	1.7855	1.7864	1.7038	1.6384	1.6160	1.6962	----	1.73	6.19	0.999	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5695	0.5349	0.5620	0.5786	0.5548	0.5481	0.5475	0.5735	----	0.559	6.28	0.999	0.999	2.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Qua	0.9571	0.9625	0.9732	0.9702	0.9358	0.9081	0.8881	0.9516	1.2851	0.981	6.19	0.998	0.998	12	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2048	1.2870	1.2094	1.2213	1.1673	1.1241	1.1047	1.1653	1.3520	1.20	6.18	0.999	0.999	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1532	0.1187	0.1335	0.1522	0.1574	0.1546	0.1557	0.1578	----	0.148	6.31	1.00	1.00	9.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3789	0.4278	0.3964	0.3944	0.3911	0.3728	0.3761	0.3966	----	0.392	6.33	0.998	0.999	4.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6821	0.7346	0.6908	0.7030	0.6746	0.6625	0.6642	0.6916	----	0.688	6.51	0.999	0.999	3.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1727	0.1594	0.1640	0.1823	0.1768	0.1743	0.1758	0.1814	----	0.173	6.58	1.00	1.00	4.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3543	0.3593	0.3566	0.3697	0.3515	0.3434	0.3442	0.3592	0.3868	0.358	6.60	0.999	0.999	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2721	----	0.1704	0.2502	0.2839	0.2873	0.2915	0.3096	----	0.266	6.66	0.998	0.999	17		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3878	0.4334	0.3965	0.4150	0.3839	0.3758	0.3750	0.3771	----	0.393	6.68	1.00	1.00	5.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2975	0.2918	0.2846	0.3115	0.3059	0.2950	0.2932	0.3005	0.3274	0.301	6.75	1.00	1.00	4.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.3313	0.3619	0.3418	0.3547	0.3370	0.3224	0.3300	0.3384	----	0.340	6.82	0.999	0.999	3.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	0.9797	1.0530	1.0299	1.0570	0.9770	0.9134	0.9566	0.9781	1.3073	1.03	6.89	0.999	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Qua	0.3752	0.3798	0.3966	0.4128	0.3641	0.3487	0.3371	0.3354	0.5102	0.384	6.92	0.999	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2177	0.2412	0.2269	0.2265	0.2206	0.2140	0.2143	0.2208	----	0.223	6.98	0.999	1.00	4.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0975	0.0737	0.0919	0.1004	0.0990	0.0971	0.0991	0.1033	----	0.0953	7.20	0.999	1.00	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2952	0.2807	0.2891	0.3037	0.2881	0.2870	0.2906	0.3005	----	0.292	7.28	0.999	1.00	2.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6359	0.6977	0.6474	0.6772	0.6330	0.6172	0.6161	0.6347	----	0.645	7.43	0.999	1.00	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6206	0.6192	0.6486	0.6495	0.6137	0.5921	0.5880	0.6065	----	0.617	7.51	0.999	0.999	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6276	0.6585	0.6480	0.6626	0.6231	0.6043	0.6022	0.6196	----	0.631	7.51	0.999	1.00	3.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.8186	0.8742	0.8474	0.8746	0.8037	0.7862	0.7839	0.8062	----	0.824	7.80	0.999	1.00	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.6427	0.7382	0.6758	0.6711	0.6295	0.6291	0.6226	0.6507	----	0.658	7.56	0.999	0.999	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.263

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2011202 0262

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M110586.D	CAL BNA@50PPM	01/07/22 15:02	2	9M110578.D	CAL BNA@2PPM	01/07/22 11:59
3	9M110579.D	CAL BNA@10PPM	01/07/22 12:22	4	9M110584.D	CAL BNA@20PPM	01/07/22 14:16
5	9M110583.D	CAL BNA@80PPM	01/07/22 13:54	6	9M110582.D	CAL BNA@120PPM	01/07/22 13:31
7	9M110581.D	CAL BNA@160PPM	01/07/22 13:08	8	9M110580.D	CAL BNA@196PPM	01/07/22 12:45
9	9M110585.D	CAL BNA@0.5PPM	01/07/22 14:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.4219	0.4243	0.4211	0.4353	0.4342	0.4218	0.4301	0.4420	----	0.429	7.55	0.999	1.00	1.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4219	0.4220	0.4126	0.4339	0.4292	0.4165	0.4216	0.4499	----	0.426	7.65	0.998	0.999	2.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4433	0.3994	0.4175	0.4472	0.4400	0.4212	0.4417	0.4560	----	0.433	7.68	0.998	0.999	4.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4174	1.4222	1.4435	1.4762	1.3842	1.3607	1.3973	1.4559	----	1.42	7.72	0.999	0.999	2.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1667	1.2404	1.1584	1.2379	1.1508	1.1376	1.1417	1.1656	----	1.17	7.82	1.00	1.00	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9159	0.9766	0.8957	0.9422	0.8850	0.8622	0.8535	0.8791	----	0.901	8.11	0.999	1.00	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9159	0.9766	0.8957	0.9422	0.8850	0.8622	0.8535	0.8791	----	0.901	8.11	0.999	1.00	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8194	0.8718	0.8127	0.8476	0.8028	0.7888	0.7909	0.8051	----	0.817	7.89	1.00	1.00	3.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4616	0.3852	0.4476	0.4703	0.4596	0.4496	0.4540	0.4806	----	0.451	7.90	0.998	0.999	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4442	0.4583	0.4224	0.4725	0.4390	0.4269	0.4228	0.4309	----	0.440	8.09	1.00	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8189	1.9413	1.7886	1.9250	1.7833	1.7400	1.7526	1.8052	----	1.82	8.19	1.00	1.00	4.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3780	1.3329	1.3604	1.4067	1.3398	1.3237	1.3153	1.3727	----	1.35	8.05	0.999	0.999	2.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3099	0.2334	0.2811	0.3221	0.2947	0.2909	0.2911	0.2963	----	0.290	8.11	1.00	1.00	9.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1322	1.1838	1.1458	1.1902	1.1063	1.0937	1.0859	1.1202	----	1.13	8.34	0.999	1.00	3.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3096	0.2427	0.3051	0.3302	0.3116	0.3044	0.2991	0.2984	----	0.300	8.25	1.00	1.00	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1720	----	0.1338	0.1609	0.1886	0.1885	0.1918	0.1985	----	0.176	8.34	0.999	1.00	13	0.20	a 50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7048	1.6930	1.6715	1.7460	1.6354	1.6114	1.6143	1.6816	1.9881	1.71	8.50	0.999	0.999	6.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4041	0.3405	0.3722	0.4131	0.4058	0.4039	0.4092	0.4169	----	0.396	8.47	1.00	1.00	6.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2948	0.1849	0.2829	0.3047	0.3133	0.3045	0.3145	0.3238	----	0.290	8.38	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3838	0.3189	0.3565	0.4000	0.3747	0.3778	0.3817	0.3936	----	0.373	8.60	0.999	1.00	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3663	1.3638	1.3836	1.4321	1.3228	1.3068	1.3136	1.3824	----	1.36	8.82	0.998	0.999	3.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7280	0.7916	0.7536	0.7797	0.7136	0.7076	0.7159	0.7442	----	0.742	8.81	0.999	0.999	4.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3370	1.3618	1.3115	1.3892	1.2791	1.2952	1.2862	1.3670	----	1.33	8.68	0.998	0.999	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3361	0.2782	0.3271	0.3314	0.3356	0.3284	0.3260	0.3365	----	0.325	8.82	0.999	1.00	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4245	0.4249	0.4172	0.4235	0.4072	0.4110	0.4082	0.4214	----	0.417	9.45	0.999	1.00	1.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1256	----	0.0935	0.1144	0.1278	0.1258	0.1322	0.1377	----	0.122	8.85	0.998	0.999	12	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5964	0.5606	0.5870	0.6241	0.5895	0.5716	0.5788	0.6050	----	0.589	8.92	0.999	0.999	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1040	0.1030	0.0974	0.1092	0.1065	0.1028	0.1038	0.1114	----	0.105	9.05	0.997	0.999	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7667	0.6849	0.7765	0.7932	0.6937	0.6715	0.7432	0.7641	----	0.737	8.97	0.997	0.997	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2189	0.2106	0.2133	0.2292	0.2232	0.2180	0.2173	0.2268	----	0.220	9.30	0.999	0.999	2.9	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2200	0.2443	0.2254	0.2336	0.2250	0.2198	0.2239	0.2317	----	0.228	9.37	0.999	1.00	3.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4203	0.4298	0.4141	0.4311	0.4219	0.4047	0.4052	0.4190	----	0.418	9.64	0.999	0.999	2.4	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1624	----	0.1204	0.1570	0.1658	0.1618	0.1710	0.1748	----	0.159	9.56	0.999	0.999	11	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0285	1.0740	1.0380	1.0830	1.0276	0.9866	0.9999	1.0411	----	1.03	9.80	0.999	0.999	3.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0590	1.0516	1.0457	1.0813	1.0554	1.0112	1.0202	1.0629	----	1.05	9.86	0.999	0.999	2.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9380	0.9566	0.9380	0.9798	0.9315	0.9115	0.9187	0.9363	----	0.939	10.02	1.00	1.00	2.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1068	1.0551	1.0682	1.1305	1.1183	1.0993	1.1051	1.1576	1.1865	1.11	10.41	0.999	1.00	3.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2143	1.1659	1.1972	1.2321	1.2275	1.1995	1.2101	1.2667	----	1.21	11.14	0.999	0.999	2.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2393	1.3103	1.2115	1.3046	1.2587	1.2043	1.2496	1.3143	----	1.26	11.40	0.998	0.999	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.6975	0.5849	0.6406	0.7268	0.6947	0.6288	0.6213	0.6148	----	0.651	11.29	0.997	0.999	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6774	0.7098	0.6696	0.6847	0.6893	0.6547	0.6856	0.7335	----	0.688	11.58	0.996	0.998	3.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.263
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M110586.D	CAL BNA@50PPM	01/07/22 15:02	2	9M110578.D	CAL BNA@2PPM	01/07/22 11:59
3	9M110579.D	CAL BNA@10PPM	01/07/22 12:22	4	9M110584.D	CAL BNA@20PPM	01/07/22 14:16
5	9M110583.D	CAL BNA@80PPM	01/07/22 13:54	6	9M110582.D	CAL BNA@120PPM	01/07/22 13:31
7	9M110581.D	CAL BNA@160PPM	01/07/22 13:08	8	9M110580.D	CAL BNA@196PPM	01/07/22 12:45
9	9M110585.D	CAL BNA@0.5PPM	01/07/22 14:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2680	0.2833	0.2761	0.2755	0.2790	0.2638	0.2766	0.2928	----	0.277	11.52	0.997	0.999	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4606	0.4385	0.4362	0.4824	0.4770	0.4495	0.4639	0.4817	----	0.461	11.92	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.4985	0.4886	0.4900	0.5085	0.5111	0.4943	0.5075	0.5328	----	0.504	12.17	0.998	0.999	2.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4208	0.3688	0.3880	0.4298	0.4267	0.4106	0.4254	0.4391	----	0.414	12.28	0.999	0.999	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4705	0.4637	0.4387	0.4906	0.4792	0.4524	0.4504	0.4638	----	0.464	12.79	0.999	0.999	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2102	1.3333	1.1751	1.2330	1.2213	1.1928	1.2231	1.2786	----	1.23	12.82	0.998	0.999	4.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1090	1.1890	1.0514	1.1563	1.0840	1.0424	1.0694	1.1218	----	1.10	12.87	0.998	0.999	4.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.6850	0.6311	0.6730	0.6962	0.6850	0.6484	0.6887	0.7226	----	0.679	12.87	0.997	0.999	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.0870	0.9724	1.0436	1.0916	1.0819	1.0656	1.1008	1.1350	----	1.07	13.62	0.999	1.00	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1145	1.0106	0.9862	1.0643	1.0612	1.0828	1.0777	1.1674	----	1.07	14.04	0.997	0.998	5.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0551	1.1865	1.0772	1.1655	1.0621	1.0038	1.0803	1.0510	----	1.09	14.07	0.999	0.999	5.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0566	1.0411	1.0488	1.1622	1.0315	1.0064	1.0380	1.0777	----	1.06	14.40	0.998	0.999	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.0588	0.9797	0.9754	1.0417	1.0479	1.0270	1.0725	1.1044	----	1.04	15.81	0.999	1.00	4.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.8928	0.8683	0.8443	0.8915	0.8960	0.8915	0.9224	0.9491	----	0.895	15.83	0.999	1.00	3.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9250	0.9279	0.8690	0.9117	0.8894	0.8795	0.9114	0.9409	----	0.907	16.19	0.999	1.00	2.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.263
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M89135.D Instrument: GCMS 10

Cont Calibration Date/Time 1/13/2022 10:23:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.57	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	46.84	50	**		0.965	0.904	6.32	
Pyridine	1	0		3.05	47.65	50	**		2.015	1.920	4.70	
N-Nitrosodimethylamine	1	0		3.00	50.31	50	**		1.403	1.412	0.61	
2-Fluorophenol	1	0	S	4.59	50.56	50	**		2.317	2.344	1.13	
Benzaldehyde	1	0		5.42	49.02	50	20	0.01	1.676	1.643	1.97	
Aniline	1	0		5.51	48.78	50	**		3.609	3.521	2.45	
Pentachloroethane	1	0		5.55	50.21	50	**	0.05	0.840	0.843	0.41	
bis(2-Chloroethyl)ether	1	0		5.57	49.48	50	20	0.7	2.344	2.320	1.04	
Phenol-d5	1	0	S	5.47	51.41	50	**		2.737	2.814	2.81	
Phenol	1	0		5.48	50.53	50	20	0.8	3.213	3.247	1.06	
2-Chlorophenol	1	0		5.61	51.15	50	20	0.8	2.621	2.681	2.30	
N-Decane	1	0		5.65	50.88	50	**	0.05	2.321	2.362	1.76	
1,3-Dichlorobenzene	1	0		5.74	50.52	50	**		2.916	2.946	1.04	
1,4-Dichlorobenzene-d4	1	0	I	5.79	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.80	49.30	50	20		1.472	1.451	1.40	
1,2-Dichlorobenzene	1	0		5.93	49.49	50	**		1.394	1.380	1.02	
Benzyl alcohol	1	0		5.90	50.41	50	**		0.803	0.809	0.83	
bis(2-chloroisopropyl)ether	1	0		6.01	50.18	50	20	0.01	1.415	1.420	0.37	
2-Methylphenol	1	0		5.99	50.13	50	20	0.7	1.120	1.123	0.26	
Acetophenone	1	0		6.12	50.71	50	20	0.01	1.426	1.446	1.42	
Hexachloroethane	1	0		6.20	49.42	50	20	0.3	0.513	0.507	1.16	
N-Nitroso-di-n-propylamine	1	0		6.12	50.17	50	20	0.5	0.734	0.736	0.34	
3&4-Methylphenol	1	0		6.11	51.85	50	20		1.107	1.147	3.69	
Naphthalene-d8	1	0	I	6.79	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	25.24	25	**		0.153	0.155	0.95	
Nitrobenzene	1	0		6.25	51.28	50	20	0.2	0.279	0.286	2.56	
Isophorone	1	0		6.44	50.84	50	20	0.4	0.528	0.537	1.67	
2-Nitrophenol	1	0		6.50	53.75	50	20	0.1	0.164	0.176	7.50	
2,4-Dimethylphenol	1	0		6.53	50.94	50	20	0.2	0.298	0.304	1.88	
Benzoic Acid	1	0		6.59	37.76	50	**		0.204	0.158	24.49	
bis(2-Chloroethoxy)methane	1	0		6.60	50.73	50	20	0.3	0.325	0.330	1.47	
2,4-Dichlorophenol	1	0		6.68	51.47	50	20	0.2	0.262	0.270	2.94	
1,2,4-Trichlorobenzene	1	0		6.75	50.14	50	**		0.292	0.293	0.28	
Naphthalene	1	0		6.81	49.56	50	20	0.7	0.993	0.985	0.89	
4-Chloroaniline	1	0		6.85	50.24	50	20	0.01	0.384	0.386	0.49	
Hexachlorobutadiene	1	0		6.90	51.00	50	20	0.01	0.155	0.158	2.00	
Caprolactam	1	0		7.11	50.57	50	20	0.01	0.092	0.093	1.14	
4-Chloro-3-methylphenol	1	0		7.20	52.85	50	20	0.2	0.241	0.255	5.69	
2-Methylnaphthalene	1	0		7.34	52.04	50	**	0.4	0.610	0.635	4.07	
1-Methylnaphthalene	1	0		7.42	51.22	50	**	0.4	0.600	0.614	2.43	
Methylnaphthalenes	1	0		7.42	103.74	50	**			1.253	107.48	
1,1'-Biphenyl	1	0		7.71	52.16	50	20	0.01	0.744	0.776	4.31	
Acenaphthene-d10	1	0	I	8.22	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.47	50.05	50	20	0.01	0.551	0.552	0.11	
Hexachlorocyclopentadiene	1	0		7.46	52.28	50	20	0.05	0.317	0.331	4.56	
2,4,6-Trichlorophenol	1	0		7.56	50.89	50	20	0.2	0.373	0.380	1.79	
2,4,5-Trichlorophenol	1	0		7.59	51.96	50	20	0.2	0.386	0.402	3.92	
2-Fluorobiphenyl	1	0	S	7.63	24.93	25	**		1.393	1.389	0.30	
2-Chloronaphthalene	1	0		7.74	50.12	50	20	0.8	1.144	1.147	0.23	
1,4-Dimethylnaphthalene	1	0		8.02	51.70	50	**		0.884	0.914	3.40	
Dimethylnaphthalenes	1	0		8.02	51.70	50	20			0.914	3.40	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M89135.D Instrument: GCMS 10

Cont Calibration Date/Time 1/13/2022 10:23:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.80	50.05	50	**		0.807	0.808	0.11	
2-Nitroaniline	1	0		7.82	52.16	50	20	0.01	0.318	0.331	4.31	
Coumarin	1	0		8.00	51.82		**		0.434			
Acenaphthylene	1	0		8.09	51.19	50	20	0.9	1.820	1.864	2.38	
Dimethylphthalate	1	0		7.96	50.94	50	20	0.01	1.252	1.276	1.88	
2,6-Dinitrotoluene	1	0		8.02	54.57	50	20	0.2	0.272	0.297	9.14	
Acenaphthene	1	0		8.24	50.80	50	20	0.9	1.132	1.151	1.61	
3-Nitroaniline	1	0		8.16	51.83	50	20	0.01	0.331	0.343	3.65	
2,4-Dinitrophenol	1	0		8.25	47.94	50	20	0.2	0.161	0.162	4.13	
Dibenzofuran	1	0		8.40	49.46	50	20	0.8	1.684	1.666	1.08	
2,4-Dinitrotoluene	1	0		8.37	53.17	50	20	0.2	0.378	0.402	6.34	
4-Nitrophenol	1	0		8.29	54.09	50	20	0.01	0.201	0.218	8.18	
2,3,4,6-Tetrachlorophenol	1	0		8.50	51.84	50	20	0.01	0.306	0.318	3.68	
Fluorene	1	0		8.72	51.36	50	20	0.9	1.284	1.319	2.72	
4-Chlorophenyl-phenylether	1	0		8.71	51.33	50	20	0.4	0.617	0.634	2.66	
Diethylphthalate	1	0		8.59	51.61	50	20	0.01	1.198	1.237	3.22	
4-Nitroaniline	1	0		8.73	51.21	50	20	0.01	0.348	0.357	2.43	
Atrazine	1	0		9.35	53.02	50	20	0.01	0.338	0.358	6.05	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.75	51.56	50	20	0.01	0.116	0.119	3.12	
n-Nitrosodiphenylamine	1	0		8.82	51.22	50	20	0.01	0.601	0.616	2.45	
2,4,6-Tribromophenol	1	0	S	8.95	50.50	50	**		0.093	0.096	0.99	
1,2-Diphenylhydrazine	1	0		8.86	49.05	50	**		0.592	0.580	1.91	
4-Bromophenyl-phenylether	1	0		9.20	51.39	50	20	0.1	0.187	0.193	2.78	
Hexachlorobenzene	1	0		9.26	49.60	50	20	0.1	0.198	0.197	0.80	
N-Octadecane	1	0		9.53	54.15	50	**	0.05	0.347	0.376	8.29	
Pentachlorophenol	1	0		9.46	50.28	50	20	0.05	0.134	0.135	0.57	
Phenanthrene	1	0		9.70	50.75	50	20	0.7	1.011	1.026	1.50	
Anthracene	1	0		9.75	51.05	50	20	0.7	1.017	1.038	2.09	
Carbazole	1	0		9.92	51.63	50	20	0.01	0.951	0.982	3.25	
Di-n-butylphthalate	1	0		10.30	54.01	50	20	0.01	1.015	1.096	8.02	
Fluoranthene	1	0		11.02	52.51	50	20	0.6	1.044	1.097	5.01	
Chrysene-d12	1	0	I	12.71	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	51.31	50	20	0.6	1.296	1.330	2.63	
Benzidine	1	0		11.18	45.49	50	**		0.675	0.668	9.01	
Terphenyl-d14	1	0	S	11.47	25.20	25	**		0.665	0.670	0.79	
4,4'-DDE	1	0		11.40	51.49		**		0.240			
4,4'-DDD	1	0		11.80	52.86		**		0.417			
Butylbenzylphthalate	1	0		12.06	53.33	50	20	0.01	0.510	0.544	6.67	
4,4'-DDT	1	0		12.16	56.97		**		0.364			
3,3'-Dichlorobenzidine	1	0		12.68	47.62	50	20	0.01	0.419	0.436	4.75	
Benzo[a]anthracene	1	0		12.70	50.04	50	20	0.8	1.160	1.161	0.09	
Chrysene	1	0		12.75	50.58	50	20	0.7	1.094	1.107	1.16	
bis(2-Ethylhexyl)phthalate	1	0		12.75	55.00	50	20	0.01	0.688	0.757	10.00	
Perylene-d12	1	0	I	14.32	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.49	49.49	50	20	0.01	1.015	1.132	1.01	
Benzo[b]fluoranthene	1	0		13.91	52.96	50	20	0.7	0.977	1.034	5.92	
Benzo[k]fluoranthene	1	0		13.94	51.16	50	20	0.7	1.012	1.036	2.33	
Benzo[a]pyrene	1	0		14.26	51.84	50	20	0.7	0.955	0.990	3.68	
Indeno[1,2,3-cd]pyrene	1	0		15.61	51.61	50	20	0.5	1.039	1.073	3.23	
Dibenzo[a,h]anthracene	1	0		15.64	52.14	50	20	0.4	0.916	0.955	4.29	
Benzo[g,h,i]perylene	1	0		15.98	50.40	50	20	0.5	0.936	0.943	0.80	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M89135.D **Instrument:** GCMS 10

Cont Calibration Date/Time 1/13/2022 10:23:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.884	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.604	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M89156.D Instrument: GCMS 10

Cont Calibration Date/Time 1/14/2022 9:00:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.57	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.61	46.03	50	**		0.965	0.888	7.93	
Pyridine	1	0		3.06	46.65	50	**		2.015	1.880	6.69	
N-Nitrosodimethylamine	1	0		3.00	50.54	50	**		1.403	1.418	1.08	
2-Fluorophenol	1	0	S	4.59	49.86	50	**		2.317	2.311	0.28	
Benzaldehyde	1	0		5.42	49.42	50	20	0.01	1.676	1.657	1.16	
Aniline	1	0		5.51	47.99	50	**		3.609	3.464	4.02	
Pentachloroethane	1	0		5.55	49.20	50	**	0.05	0.840	0.826	1.61	
bis(2-Chloroethyl)ether	1	0		5.57	49.11	50	20	0.7	2.344	2.303	1.77	
Phenol-d5	1	0	S	5.47	51.05	50	**		2.737	2.795	2.11	
Phenol	1	0		5.48	50.62	50	20	0.8	3.213	3.253	1.24	
2-Chlorophenol	1	0		5.61	50.35	50	20	0.8	2.621	2.639	0.69	
N-Decane	1	0		5.65	50.79	50	**	0.05	2.321	2.357	1.58	
1,3-Dichlorobenzene	1	0		5.74	48.90	50	**		2.916	2.851	2.21	
1,4-Dichlorobenzene-d4	1	0	I	5.79	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.80	49.64	50	20		1.472	1.461	0.72	
1,2-Dichlorobenzene	1	0		5.93	49.92	50	**		1.394	1.392	0.17	
Benzyl alcohol	1	0		5.90	51.94	50	**		0.803	0.834	3.87	
bis(2-chloroisopropyl)ether	1	0		6.01	50.72	50	20	0.01	1.415	1.436	1.45	
2-Methylphenol	1	0		5.99	50.78	50	20	0.7	1.120	1.138	1.55	
Acetophenone	1	0		6.12	51.48	50	20	0.01	1.426	1.468	2.96	
Hexachloroethane	1	0		6.20	49.77	50	20	0.3	0.513	0.510	0.47	
N-Nitroso-di-n-propylamine	1	0		6.11	50.34	50	20	0.5	0.734	0.739	0.68	
3&4-Methylphenol	1	0		6.11	51.95	50	20		1.107	1.150	3.89	
Naphthalene-d8	1	0	I	6.79	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	25.94	25	**		0.153	0.159	3.77	
Nitrobenzene	1	0		6.25	52.16	50	20	0.2	0.279	0.291	4.32	
Isophorone	1	0		6.44	51.59	50	20	0.4	0.528	0.545	3.17	
2-Nitrophenol	1	0		6.50	54.62	50	20	0.1	0.164	0.179	9.24	
2,4-Dimethylphenol	1	0		6.52	51.67	50	20	0.2	0.298	0.308	3.34	
Benzoic Acid	1	0		6.58	37.64	50	**		0.204	0.157	24.73	
bis(2-Chloroethoxy)methane	1	0		6.60	51.24	50	20	0.3	0.325	0.333	2.49	
2,4-Dichlorophenol	1	0		6.68	52.04	50	20	0.2	0.262	0.273	4.08	
1,2,4-Trichlorobenzene	1	0		6.75	50.67	50	**		0.292	0.296	1.34	
Naphthalene	1	0		6.81	49.89	50	20	0.7	0.993	0.991	0.23	
4-Chloroaniline	1	0		6.85	50.04	50	20	0.01	0.384	0.385	0.09	
Hexachlorobutadiene	1	0		6.90	50.95	50	20	0.01	0.155	0.158	1.90	
Caprolactam	1	0		7.11	51.96	50	20	0.01	0.092	0.095	3.92	
4-Chloro-3-methylphenol	1	0		7.20	52.81	50	20	0.2	0.241	0.255	5.61	
2-Methylnaphthalene	1	0		7.34	52.28	50	**	0.4	0.610	0.638	4.56	
1-Methylnaphthalene	1	0		7.42	51.52	50	**	0.4	0.600	0.618	3.03	
Methylnaphthalenes	1	0		7.42	104.14	50	**			1.257	108.29	
1,1'-Biphenyl	1	0		7.71	52.09	50	20	0.01	0.744	0.775	4.18	
Acenaphthene-d10	1	0	I	8.21	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.47	50.25	50	20	0.01	0.551	0.554	0.49	
Hexachlorocyclopentadiene	1	0		7.46	52.43	50	20	0.05	0.317	0.332	4.87	
2,4,6-Trichlorophenol	1	0		7.56	50.45	50	20	0.2	0.373	0.377	0.89	
2,4,5-Trichlorophenol	1	0		7.59	52.37	50	20	0.2	0.386	0.405	4.73	
2-Fluorobiphenyl	1	0	S	7.63	25.25	25	**		1.393	1.407	0.98	
2-Chloronaphthalene	1	0		7.74	50.27	50	20	0.8	1.144	1.151	0.54	
1,4-Dimethylnaphthalene	1	0		8.01	52.27	50	**		0.884	0.924	4.53	
Dimethylnaphthalenes	1	0		8.01	52.27	50	20			0.924	4.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M89156.D **Instrument:** GCMS 10

Cont Calibration Date/Time 1/14/2022 9:00:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.80	50.27	50	**		0.807	0.811	0.54	
2-Nitroaniline	1	0		7.82	52.68	50	20	0.01	0.318	0.335	5.37	
Coumarin	1	0		8.00	51.77		**		0.434			
Acenaphthylene	1	0		8.09	50.91	50	20	0.9	1.820	1.853	1.81	
Dimethylphthalate	1	0		7.96	50.86	50	20	0.01	1.252	1.274	1.72	
2,6-Dinitrotoluene	1	0		8.01	54.65	50	20	0.2	0.272	0.297	9.31	
Acenaphthene	1	0		8.24	50.59	50	20	0.9	1.132	1.146	1.18	
3-Nitroaniline	1	0		8.16	52.35	50	20	0.01	0.331	0.347	4.71	
2,4-Dinitrophenol	1	0		8.25	47.56	50	20	0.2	0.161	0.160	4.89	
Dibenzofuran	1	0		8.40	49.01	50	20	0.8	1.684	1.651	1.97	
2,4-Dinitrotoluene	1	0		8.37	53.45	50	20	0.2	0.378	0.404	6.89	
4-Nitrophenol	1	0		8.29	54.51	50	20	0.01	0.201	0.220	9.02	
2,3,4,6-Tetrachlorophenol	1	0		8.50	52.15	50	20	0.01	0.306	0.320	4.29	
Fluorene	1	0		8.72	51.58	50	20	0.9	1.284	1.325	3.16	
4-Chlorophenyl-phenylether	1	0		8.71	51.38	50	20	0.4	0.617	0.635	2.76	
Diethylphthalate	1	0		8.59	51.10	50	20	0.01	1.198	1.225	2.21	
4-Nitroaniline	1	0		8.72	51.81	50	20	0.01	0.348	0.361	3.62	
Atrazine	1	0		9.35	52.88	50	20	0.01	0.338	0.357	5.76	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.75	52.34	50	20	0.01	0.116	0.121	4.68	
n-Nitrosodiphenylamine	1	0		8.82	50.96	50	20	0.01	0.601	0.612	1.91	
2,4,6-Tribromophenol	1	0	S	8.95	49.81	50	**		0.093	0.095	0.38	
1,2-Diphenylhydrazine	1	0		8.86	49.02	50	**		0.592	0.580	1.95	
4-Bromophenyl-phenylether	1	0		9.20	51.10	50	20	0.1	0.187	0.191	2.21	
Hexachlorobenzene	1	0		9.26	49.58	50	20	0.1	0.198	0.197	0.85	
N-Octadecane	1	0		9.53	54.55	50	**	0.05	0.347	0.378	9.09	
Pentachlorophenol	1	0		9.45	51.62	50	20	0.05	0.134	0.139	3.23	
Phenanthrene	1	0		9.70	50.54	50	20	0.7	1.011	1.022	1.07	
Anthracene	1	0		9.75	50.95	50	20	0.7	1.017	1.036	1.89	
Carbazole	1	0		9.92	51.34	50	20	0.01	0.951	0.977	2.67	
Di-n-butylphthalate	1	0		10.30	53.97	50	20	0.01	1.015	1.095	7.94	
Fluoranthene	1	0		11.02	52.03	50	20	0.6	1.044	1.087	4.06	
Chrysene-d12	1	0	I	12.71	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	51.65	50	20	0.6	1.296	1.338	3.29	
Benzidine	1	0		11.18	46.52	50	**		0.675	0.683	6.96	
Terphenyl-d14	1	0	S	11.47	25.42	25	**		0.665	0.676	1.67	
4,4'-DDE	1	0		11.40	50.81		**		0.240			
4,4'-DDD	1	0		11.80	53.16		**		0.417			
Butylbenzylphthalate	1	0		12.06	54.47	50	20	0.01	0.510	0.556	8.94	
4,4'-DDT	1	0		12.16	56.42		**		0.364			
3,3'-Dichlorobenzidine	1	0		12.68	49.48	50	20	0.01	0.419	0.453	1.03	
Benzo[a]anthracene	1	0		12.70	50.25	50	20	0.8	1.160	1.165	0.50	
Chrysene	1	0		12.75	50.15	50	20	0.7	1.094	1.097	0.30	
bis(2-Ethylhexyl)phthalate	1	0		12.75	56.01	50	20	0.01	0.688	0.771	12.02	
Perylene-d12	1	0	I	14.32	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.49	51.83	50	20	0.01	1.015	1.185	3.66	
Benzo[b]fluoranthene	1	0		13.91	52.77	50	20	0.7	0.977	1.031	5.54	
Benzo[k]fluoranthene	1	0		13.94	50.39	50	20	0.7	1.012	1.020	0.78	
Benzo[a]pyrene	1	0		14.26	51.99	50	20	0.7	0.955	0.993	3.97	
Indeno[1,2,3-cd]pyrene	1	0		15.61	52.17	50	20	0.5	1.039	1.084	4.34	
Dibenzo[a,h]anthracene	1	0		15.64	52.81	50	20	0.4	0.916	0.967	5.62	
Benzo[g,h,i]perylene	1	0		15.98	51.17	50	20	0.5	0.936	0.957	2.33	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M89156.D Instrument: GCMS 10

Cont Calibration Date/Time 1/14/2022 9:00:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.884	0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.604	0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110724.D **Instrument:** GCMS 9

Cont Calibration Date/Time 1/16/2022 12:02:00 P **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.65	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.68	50.55	50	**		0.865	0.952	1.09	
Pyridine	1	0		3.14	46.75	50	**		2.286	2.137	6.49	
N-Nitrosodimethylamine	1	0		3.08	51.90	50	**		1.596	1.657	3.80	
2-Fluorophenol	1	0	S	4.67	42.83	50	**		2.570	2.201	14.34	
Benzaldehyde	1	0		5.49	43.68	50	20	0.01	2.286	1.997	12.63	
Aniline	1	0		5.58	45.38	50	**		4.467	3.794	9.25	
Pentachloroethane	1	0		5.62	42.68	50	**	0.05	0.957	0.817	14.63	
bis(2-Chloroethyl)ether	1	0		5.64	47.52	50	20	0.7	2.834	2.612	4.96	
Phenol-d5	1	0	S	5.54	44.48	50	**		3.272	2.911	11.04	
Phenol	1	0		5.55	45.73	50	20	0.8	3.756	3.435	8.54	
2-Chlorophenol	1	0		5.68	41.80	50	20	0.8	2.743	2.294	16.39	
N-Decane	1	0		5.73	48.73	50	**	0.05	3.068	2.990	2.54	
1,3-Dichlorobenzene	1	0		5.82	38.92	50	**		3.176	2.472	22.17	
1,4-Dichlorobenzene-d4	1	0	I	5.87	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.88	48.92	50	20		1.498	1.466	2.17	
1,2-Dichlorobenzene	1	0		6.00	49.38	50	**		1.399	1.382	1.24	
Benzyl alcohol	1	0		5.98	54.20	50	**		0.849	0.920	8.39	
bis(2-chloroisopropyl)ether	1	0		6.09	63.92	50	20	0.01	1.824	2.332	27.84	C1
2-Methylphenol	1	0		6.06	55.11	50	20	0.7	1.158	1.277	10.22	
Acetophenone	1	0		6.19	56.05	50	20	0.01	1.731	1.941	12.10	
Hexachloroethane	1	0		6.28	54.23	50	20	0.3	0.559	0.606	8.46	
N-Nitroso-di-n-propylamine	1	0		6.19	62.52	50	20	0.5	0.981	1.134	25.04	C1
3&4-Methylphenol	1	0		6.18	56.52	50	20		1.204	1.361	13.04	
Naphthalene-d8	1	0	I	6.87	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.31	24.32	25	**		0.148	0.144	2.71	
Nitrobenzene	1	0		6.33	51.68	50	20	0.2	0.392	0.405	3.36	
Isophorone	1	0		6.51	54.53	50	20	0.4	0.688	0.750	9.05	
2-Nitrophenol	1	0		6.58	47.11	50	20	0.1	0.173	0.163	5.77	
2,4-Dimethylphenol	1	0		6.60	48.58	50	20	0.2	0.358	0.348	2.83	
Benzoic Acid	1	0		6.65	24.20	50	**		0.266	0.126	51.61	
bis(2-Chloroethoxy)methane	1	0		6.68	55.97	50	20	0.3	0.393	0.440	11.94	
2,4-Dichlorophenol	1	0		6.76	44.58	50	20	0.2	0.301	0.268	10.83	
1,2,4-Trichlorobenzene	1	0		6.82	44.72	50	**		0.340	0.304	10.57	
Naphthalene	1	0		6.89	53.55	50	20	0.7	1.028	1.007	7.11	
4-Chloroaniline	1	0		6.92	51.74	50	20	0.01	0.384	0.381	3.48	
Hexachlorobutadiene	1	0		6.98	40.36	50	20	0.01	0.223	0.180	19.28	
Caprolactam	1	0		7.20	55.13	50	20	0.01	0.095	0.105	10.25	
4-Chloro-3-methylphenol	1	0		7.29	48.53	50	20	0.2	0.292	0.283	2.95	
2-Methylnaphthalene	1	0		7.43	48.62	50	**	0.4	0.645	0.627	2.77	
1-Methylnaphthalene	1	0		7.51	49.90	50	**	0.4	0.617	0.616	0.20	
Methylnaphthalenes	1	0		7.51	97.69	50	**			1.232	95.37	
1,1'-Biphenyl	1	0		7.80	46.51	50	20	0.01	0.824	0.767	6.99	
Acenaphthene-d10	1	0	I	8.31	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.56	47.50	50	20	0.01	0.658	0.625	5.01	
Hexachlorocyclopentadiene	1	0		7.55	41.06	50	20	0.05	0.429	0.352	17.88	
2,4,6-Trichlorophenol	1	0		7.65	47.88	50	20	0.2	0.426	0.408	4.23	
2,4,5-Trichlorophenol	1	0		7.68	47.11	50	20	0.2	0.433	0.408	5.77	
2-Fluorobiphenyl	1	0	S	7.72	24.14	25	**		1.420	1.371	3.46	
2-Chloronaphthalene	1	0		7.82	51.59	50	20	0.8	1.175	1.212	3.18	
1,4-Dimethylnaphthalene	1	0		8.11	52.80	50	**		0.901	0.952	5.59	
Dimethylnaphthalenes	1	0		8.11	52.80	50	20			0.952	5.59	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 9M110724.D Instrument: GCMS 9

Cont Calibration Date/Time 1/16/2022 12:02:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.89	49.69	50	**		0.817	0.812	0.61	
2-Nitroaniline	1	0		7.90	58.14	50	20	0.01	0.451	0.525	16.27	
Coumarin	1	0		8.09	53.03		**		0.440			
Acenaphthylene	1	0		8.19	51.13	50	20	0.9	1.819	1.860	2.25	
Dimethylphthalate	1	0		8.05	48.45	50	20	0.01	1.354	1.312	3.11	
2,6-Dinitrotoluene	1	0		8.11	54.04	50	20	0.2	0.290	0.313	8.07	
Acenaphthene	1	0		8.34	53.16	50	20	0.9	1.132	1.204	6.33	
3-Nitroaniline	1	0		8.25	55.13	50	20	0.01	0.300	0.331	10.26	
2,4-Dinitrophenol	1	0		8.35	39.06	50	20	0.2	0.176	0.134	21.89	C1
Dibenzofuran	1	0		8.50	48.29	50	20	0.8	1.705	1.647	3.42	
2,4-Dinitrotoluene	1	0		8.47	48.78	50	20	0.2	0.396	0.386	2.44	
4-Nitrophenol	1	0		8.38	50.10	50	20	0.01	0.290	0.299	0.19	
2,3,4,6-Tetrachlorophenol	1	0		8.60	45.90	50	20	0.01	0.373	0.343	8.20	
Fluorene	1	0		8.82	52.05	50	20	0.9	1.359	1.415	4.10	
4-Chlorophenyl-phenylether	1	0		8.81	46.77	50	20	0.4	0.742	0.694	6.46	
Diethylphthalate	1	0		8.68	49.04	50	20	0.01	1.328	1.303	1.92	
4-Nitroaniline	1	0		8.82	55.51	50	20	0.01	0.325	0.361	11.03	
Atrazine	1	0		9.45	43.61	50	20	0.01	0.417	0.364	12.78	
Phenanthrene-d10	1	0	I	9.78	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.85	41.94	50	20	0.01	0.122	0.101	16.11	
n-Nitrosodiphenylamine	1	0		8.92	51.00	50	20	0.01	0.589	0.601	1.99	
2,4,6-Tribromophenol	1	0	S	9.05	42.67	50	**		0.105	0.089	14.66	
1,2-Diphenylhydrazine	1	0		8.97	63.80	50	**		0.737	0.940	27.60	
4-Bromophenyl-phenylether	1	0		9.30	46.06	50	20	0.1	0.220	0.202	7.88	
Hexachlorobenzene	1	0		9.37	44.96	50	20	0.1	0.228	0.205	10.07	
N-Octadecane	1	0		9.64	64.31	50	**	0.05	0.418	0.538	28.61	
Pentachlorophenol	1	0		9.56	41.89	50	20	0.05	0.159	0.133	16.21	
Phenanthrene	1	0		9.80	50.93	50	20	0.7	1.035	1.054	1.86	
Anthracene	1	0		9.86	51.92	50	20	0.7	1.048	1.089	3.83	
Carbazole	1	0		10.02	52.52	50	20	0.01	0.939	0.986	5.05	
Di-n-butylphthalate	1	0		10.41	52.91	50	20	0.01	1.114	1.162	5.82	
Fluoranthene	1	0		11.14	48.34	50	20	0.6	1.214	1.174	3.32	
Chrysene-d12	1	0	I	12.84	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.40	50.17	50	20	0.6	1.262	1.266	0.34	
Benzidine	1	0		11.29	45.16	50	**		0.651	0.588	9.68	
Terphenyl-d14	1	0	S	11.58	22.49	25	**		0.688	0.619	10.03	
4,4'-DDE	1	0		11.52	43.65		**		0.277			
4,4'-DDD	1	0		11.92	46.47		**		0.461			
Butylbenzylphthalate	1	0		12.17	51.24	50	20	0.01	0.504	0.516	2.48	
4,4'-DDT	1	0		12.28	47.82		**		0.414			
3,3'-Dichlorobenzidine	1	0		12.79	46.65	50	20	0.01	0.464	0.432	6.69	
Benzo[a]anthracene	1	0		12.82	48.53	50	20	0.8	1.233	1.197	2.93	
Chrysene	1	0		12.87	52.29	50	20	0.7	1.103	1.154	4.59	
bis(2-Ethylhexyl)phthalate	1	0		12.87	54.40	50	20	0.01	0.679	0.739	8.80	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.62	53.33	50	20	0.01	1.072	1.121	6.65	
Benzo[b]fluoranthene	1	0		14.04	49.20	50	20	0.7	1.071	1.053	1.60	
Benzo[k]fluoranthene	1	0		14.07	50.64	50	20	0.7	1.085	1.099	1.29	
Benzo[a]pyrene	1	0		14.40	50.10	50	20	0.7	1.058	1.060	0.21	
Indeno[1,2,3-cd]pyrene	1	0		15.81	49.74	50	20	0.5	1.038	1.033	0.52	
Dibenzo[a,h]anthracene	1	0		15.83	49.71	50	20	0.4	0.895	0.889	0.58	
Benzo[g,h,i]perylene	1	0		16.19	47.92	50	20	0.5	0.907	0.881	4.16	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M110724.D **Instrument:** GCMS 9

Cont Calibration Date/Time 1/16/2022 12:02:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.631	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.901	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M89173.D **Instrument:** GCMS 10

Cont Calibration Date/Time 1/16/2022 12:03:00 P **Method:** EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.58	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.62	45.98	50	**		0.965	0.887	8.04	
Pyridine	1	0		3.07	46.26	50	**		2.015	1.865	7.47	
N-Nitrosodimethylamine	1	0		3.01	50.01	50	**		1.403	1.403	0.01	
2-Fluorophenol	1	0	S	4.60	49.13	50	**		2.317	2.277	1.73	
Benzaldehyde	1	0		5.42	47.47	50	20	0.01	1.676	1.591	5.06	
Aniline	1	0		5.52	46.99	50	**		3.609	3.392	6.02	
Pentachloroethane	1	0		5.56	48.45	50	**	0.05	0.840	0.814	3.09	
bis(2-Chloroethyl)ether	1	0		5.57	48.76	50	20	0.7	2.344	2.286	2.48	
Phenol-d5	1	0	S	5.47	49.80	50	**		2.737	2.726	0.40	
Phenol	1	0		5.48	49.35	50	20	0.8	3.213	3.171	1.31	
2-Chlorophenol	1	0		5.61	49.82	50	20	0.8	2.621	2.611	0.37	
N-Decane	1	0		5.65	51.18	50	**	0.05	2.321	2.376	2.37	
1,3-Dichlorobenzene	1	0		5.75	49.24	50	**		2.916	2.871	1.52	
1,4-Dichlorobenzene-d4	1	0	I	5.79	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.81	50.04	50	20		1.472	1.473	0.09	
1,2-Dichlorobenzene	1	0		5.93	50.03	50	**		1.394	1.395	0.07	
Benzyl alcohol	1	0		5.91	51.20	50	**		0.803	0.822	2.41	
bis(2-chloroisopropyl)ether	1	0		6.02	52.54	50	20	0.01	1.415	1.487	5.08	
2-Methylphenol	1	0		5.99	50.78	50	20	0.7	1.120	1.138	1.56	
Acetophenone	1	0		6.12	52.27	50	20	0.01	1.426	1.491	4.53	
Hexachloroethane	1	0		6.21	49.78	50	20	0.3	0.513	0.511	0.44	
N-Nitroso-di-n-propylamine	1	0		6.12	51.41	50	20	0.5	0.734	0.754	2.81	
3&4-Methylphenol	1	0		6.11	52.37	50	20		1.107	1.159	4.74	
Naphthalene-d8	1	0	I	6.79	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	25.17	25	**		0.153	0.154	0.67	
Nitrobenzene	1	0		6.26	52.16	50	20	0.2	0.279	0.291	4.31	
Isophorone	1	0		6.44	51.64	50	20	0.4	0.528	0.545	3.27	
2-Nitrophenol	1	0		6.51	53.58	50	20	0.1	0.164	0.176	7.16	
2,4-Dimethylphenol	1	0		6.53	51.60	50	20	0.2	0.298	0.308	3.20	
Benzoic Acid	1	0		6.59	40.95	50	**		0.204	0.172	18.09	
bis(2-Chloroethoxy)methane	1	0		6.60	51.24	50	20	0.3	0.325	0.333	2.47	
2,4-Dichlorophenol	1	0		6.68	51.83	50	20	0.2	0.262	0.271	3.65	
1,2,4-Trichlorobenzene	1	0		6.75	49.89	50	**		0.292	0.291	0.21	
Naphthalene	1	0		6.81	49.69	50	20	0.7	0.993	0.987	0.62	
4-Chloroaniline	1	0		6.85	50.05	50	20	0.01	0.384	0.385	0.09	
Hexachlorobutadiene	1	0		6.90	50.65	50	20	0.01	0.155	0.157	1.30	
Caprolactam	1	0		7.11	51.08	50	20	0.01	0.092	0.094	2.15	
4-Chloro-3-methylphenol	1	0		7.21	52.63	50	20	0.2	0.241	0.254	5.26	
2-Methylnaphthalene	1	0		7.34	52.28	50	**	0.4	0.610	0.638	4.57	
1-Methylnaphthalene	1	0		7.42	51.71	50	**	0.4	0.600	0.620	3.43	
Methylnaphthalenes	1	0		7.34	104.11	50	**			1.257	108.22	
1,1'-Biphenyl	1	0		7.71	52.16	50	20	0.01	0.744	0.776	4.31	
Acenaphthene-d10	1	0	I	8.22	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.47	50.47	50	20	0.01	0.551	0.556	0.94	
Hexachlorocyclopentadiene	1	0		7.46	52.82	50	20	0.05	0.317	0.335	5.63	
2,4,6-Trichlorophenol	1	0		7.56	50.40	50	20	0.2	0.373	0.376	0.80	
2,4,5-Trichlorophenol	1	0		7.59	51.25	50	20	0.2	0.386	0.396	2.50	
2-Fluorobiphenyl	1	0	S	7.63	25.37	25	**		1.393	1.414	1.47	
2-Chloronaphthalene	1	0		7.74	50.97	50	20	0.8	1.144	1.167	1.94	
1,4-Dimethylnaphthalene	1	0		8.02	52.88	50	**		0.884	0.934	5.76	
Dimethylnaphthalenes	1	0		8.02	52.88	50	20			0.934	5.76	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM Data File: 10M89173.D Instrument: GCMS 10

Cont Calibration Date/Time 1/16/2022 12:03:00 P Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.80	51.05	50	**		0.807	0.824	2.11	
2-Nitroaniline	1	0		7.82	54.37	50	20	0.01	0.318	0.345	8.73	
Coumarin	1	0		8.00	52.89		**		0.434			
Acenaphthylene	1	0		8.09	51.91	50	20	0.9	1.820	1.890	3.81	
Dimethylphthalate	1	0		7.96	51.78	50	20	0.01	1.252	1.297	3.56	
2,6-Dinitrotoluene	1	0		8.02	54.32	50	20	0.2	0.272	0.296	8.64	
Acenaphthene	1	0		8.24	51.25	50	20	0.9	1.132	1.161	2.49	
3-Nitroaniline	1	0		8.17	51.87	50	20	0.01	0.331	0.344	3.75	
2,4-Dinitrophenol	1	0		8.25	53.67	50	20	0.2	0.161	0.182	7.34	
Dibenzofuran	1	0		8.40	49.88	50	20	0.8	1.684	1.680	0.25	
2,4-Dinitrotoluene	1	0		8.37	53.24	50	20	0.2	0.378	0.402	6.47	
4-Nitrophenol	1	0		8.29	56.26	50	20	0.01	0.201	0.227	12.52	
2,3,4,6-Tetrachlorophenol	1	0		8.50	51.97	50	20	0.01	0.306	0.319	3.95	
Fluorene	1	0		8.72	51.90	50	20	0.9	1.284	1.333	3.79	
4-Chlorophenyl-phenylether	1	0		8.71	51.94	50	20	0.4	0.617	0.641	3.88	
Diethylphthalate	1	0		8.59	52.18	50	20	0.01	1.198	1.250	4.36	
4-Nitroaniline	1	0		8.73	51.89	50	20	0.01	0.348	0.362	3.79	
Atrazine	1	0		9.35	52.23	50	20	0.01	0.338	0.353	4.46	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.75	53.75	50	20	0.01	0.116	0.124	7.49	
n-Nitrosodiphenylamine	1	0		8.82	51.07	50	20	0.01	0.601	0.614	2.15	
2,4,6-Tribromophenol	1	0	S	8.95	48.76	50	**		0.093	0.093	2.47	
1,2-Diphenylhydrazine	1	0		8.86	49.73	50	**		0.592	0.588	0.54	
4-Bromophenyl-phenylether	1	0		9.20	50.08	50	20	0.1	0.187	0.188	0.17	
Hexachlorobenzene	1	0		9.26	49.65	50	20	0.1	0.198	0.197	0.71	
N-Octadecane	1	0		9.53	55.19	50	**	0.05	0.347	0.383	10.38	
Pentachlorophenol	1	0		9.46	49.62	50	20	0.05	0.134	0.133	0.76	
Phenanthrene	1	0		9.70	50.73	50	20	0.7	1.011	1.026	1.45	
Anthracene	1	0		9.75	51.22	50	20	0.7	1.017	1.042	2.45	
Carbazole	1	0		9.92	51.63	50	20	0.01	0.951	0.982	3.25	
Di-n-butylphthalate	1	0		10.30	53.42	50	20	0.01	1.015	1.084	6.83	
Fluoranthene	1	0		11.02	52.45	50	20	0.6	1.044	1.096	4.90	
Chrysene-d12	1	0	I	12.71	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	51.49	50	20	0.6	1.296	1.334	2.98	
Benzidine	1	0		11.18	43.50	50	**		0.675	0.639	13.00	
Terphenyl-d14	1	0	S	11.47	25.16	25	**		0.665	0.669	0.65	
4,4'-DDE	1	0		11.40	50.19		**		0.240			
4,4'-DDD	1	0		11.80	52.41		**		0.417			
Butylbenzylphthalate	1	0		12.06	52.49	50	20	0.01	0.510	0.536	4.98	
4,4'-DDT	1	0		12.16	56.51		**		0.364			
3,3'-Dichlorobenzidine	1	0		12.68	47.68	50	20	0.01	0.419	0.437	4.65	
Benzo[a]anthracene	1	0		12.70	50.99	50	20	0.8	1.160	1.183	1.99	
Chrysene	1	0		12.75	50.77	50	20	0.7	1.094	1.111	1.53	
bis(2-Ethylhexyl)phthalate	1	0		12.75	54.60	50	20	0.01	0.688	0.751	9.21	
Perylene-d12	1	0	I	14.32	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.49	49.53	50	20	0.01	1.015	1.132	0.94	
Benzo[b]fluoranthene	1	0		13.91	52.56	50	20	0.7	0.977	1.027	5.13	
Benzo[k]fluoranthene	1	0		13.94	51.20	50	20	0.7	1.012	1.036	2.39	
Benzo[a]pyrene	1	0		14.26	51.52	50	20	0.7	0.955	0.984	3.04	
Indeno[1,2,3-cd]pyrene	1	0		15.61	51.98	50	20	0.5	1.039	1.080	3.95	
Dibenzo[a,h]anthracene	1	0		15.64	53.17	50	20	0.4	0.916	0.974	6.34	
Benzo[g,h,i]perylene	1	0		15.99	51.66	50	20	0.5	0.936	0.967	3.32	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M89173.D **Instrument:** GCMS 10

Cont Calibration Date/Time 1/16/2022 12:03:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.884	0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.604	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

2011202 0276

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M89075.D Method: EPA 8270E

Analysis Date/Time: 01/06/22 12:46

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	60707	2.60	120087	5.80	469677	6.80	238217	8.22	448298	9.68	379822	12.73	422365	14.34
Eval File Area Limit:	30354-121414		60044-240174		234838-939354		119108-476434		224149-896596		189911-759644		211182-844730	
Eval File Rt Limit:	2.1-3.1		5.3-6.3		6.3-7.3		7.72-8.72		9.18-10.18		12.23-13.23		13.84-14.84	

Data File	Sample#														
10M89067.D	CAL BNA@2PPM	59806	2.60	119034	5.80	465464	6.80	236478	8.22	443551	9.68	368927	12.72	397413	14.33
10M89068.D	CAL BNA@10PPM	48228	2.60	96536	5.80	376730	6.80	190567	8.22	355333	9.68	305411	12.72	331444	14.33
10M89069.D	CAL BNA@196PPM	58142	2.60	110621	5.80	447099	6.80	231140	8.23	430685	9.68	357052	12.74	423815	14.34
10M89070.D	CAL BNA@160PPM	58457	2.60	118729	5.80	470718	6.80	241261	8.23	451082	9.68	378964	12.73	434013	14.34
10M89071.D	CAL BNA@120PPM	58054	2.60	117989	5.80	464499	6.80	238743	8.22	449965	9.68	381909	12.73	432222	14.34
10M89072.D	CAL BNA@80PPM	58030	2.60	118489	5.80	468502	6.80	240501	8.22	450524	9.68	382696	12.73	430541	14.34
10M89073.D	CAL BNA@20PPM	56282	2.60	116180	5.80	457523	6.80	235631	8.22	440437	9.68	376287	12.72	407255	14.33
10M89074.D	CAL BNA@0.5PPM	60142	2.60	123775	5.80	485650	6.80	248697	8.22	470235	9.68	392863	12.72	429366	14.33
10M89075.D	CAL BNA@50PPM	60707	2.60	120087	5.80	469677	6.80	238217	8.22	448298	9.68	379822	12.73	422365	14.34
10M89076.D	ICV BNA@50PPM	52831	2.60	108590	5.80	424580	6.80	215336	8.22	405942	9.68	348314	12.73	378283	14.34
10M89077.D	BNA MDL(AQ)-1	49687	2.60	100461	5.80	390557	6.80	195573	8.22	371898	9.68	308768	12.72	331843	14.33
10M89078.D	WMB98417(MS)	53012	2.59	105100	5.80	406072	6.80	204148	8.22	385889	9.68	324107	12.73	350976	14.34
10M89079.D	WMB98417	47406	2.59	96114	5.80	369824	6.80	184158	8.22	351470	9.68	286319	12.72	308148	14.33
10M89080.D	AD28121-001	48399	2.58	91569	5.80	335926	6.80	190643	8.23	336526	9.69	301536	12.72	332717	14.33
10M89081.D	AD28121-002	49293	2.60	101627	5.80	390488	6.80	194807	8.22	364627	9.68	310578	12.72	345080	14.33
10M89082.D	AD28121-003	49475	2.60	99186	5.80	386372	6.80	192336	8.22	366994	9.68	303314	12.72	332017	14.33
10M89083.D	AD28121-004	52077	2.59	107050	5.80	410612	6.80	203248	8.22	392612	9.68	325896	12.72	350601	14.33
10M89084.D	AD28121-001(3X)	53680	2.60	104115	5.80	380469	6.80	196100	8.22	368145	9.68	324046	12.72	361741	14.33
10M89085.D	AD28086-001(T)	50515	2.63	104327	5.80	398123	6.80	197020	8.22	370229	9.68	312250	12.72	341546	14.33
10M89086.D	AD28086-001(T)(MS)	53222	2.62	106376	5.80	409978	6.80	206503	8.22	387365	9.68	325736	12.73	359815	14.33
10M89087.D	AD28086-001(T)(MSD	53231	2.62	106428	5.80	406014	6.80	206610	8.22	386010	9.68	323746	12.73	358564	14.33

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2011202 0277

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110586.D Method: EPA 8270E

Analysis Date/Time: 01/07/22 15:02

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	22065	2.65	46606	5.87	178223	6.87	98748	8.31	196498	9.78	193168	12.84	208394	14.47
Eval File Area Limit:	11032-44130		23303-93212		89112-356446		49374-197496		98249-392996		96584-386336		104197-416788	
Eval File Rt Limit:	2.15-3.15		5.37-6.37		6.37-7.37		7.81-8.81		9.28-10.28		12.34-13.34		13.97-14.97	

Data File	Sample#													
9M110576.D	BNA@50PPM	19387	2.65	42545	5.87	164790	6.87	88498	8.31	181749	9.78	163701	12.84	168556	14.47
9M110578.D	CAL BNA@2PPM	21966	2.65	50659	5.87	189685	6.87	109994	8.31	222430	9.78	215131	12.84	228166	14.47
9M110579.D	CAL BNA@10PPM	18653	2.65	40421	5.87	152444	6.87	87714	8.31	173380	9.78	173035	12.83	186885	14.46
9M110580.D	CAL BNA@196PPM	21778	2.65	44470	5.87	168734	6.88	93519	8.31	184579	9.78	174989	12.84	194848	14.47
9M110581.D	CAL BNA@160PPM	21508	2.67	46971	5.87	173839	6.88	96395	8.31	190514	9.78	182802	12.84	200228	14.47
9M110582.D	CAL BNA@120PPM	21621	2.65	46899	5.87	175599	6.87	97484	8.31	192544	9.78	189957	12.84	206573	14.47
9M110583.D	CAL BNA@80PPM	22497	2.66	48749	5.87	182790	6.87	102856	8.31	199539	9.78	194635	12.84	215735	14.47
9M110584.D	CAL BNA@20PPM	20739	2.65	47737	5.87	175964	6.87	100283	8.31	200459	9.78	197084	12.83	214435	14.46
9M110585.D	CAL BNA@0.5PPM	22866	2.65	51418	5.87	199124	6.87	116331	8.31	231193	9.78	232944	12.83	248539	14.46
9M110586.D	CAL BNA@50PPM	22065	2.65	46606	5.87	178223	6.87	98748	8.31	196498	9.78	193168	12.84	208394	14.47
9M110587.D	ICV BNA@50PPM	20790	2.65	44453	5.87	167196	6.87	94076	8.31	189278	9.78	187846	12.84	197669	14.47
9M110588.D	BNA MDL(AQ)-2	20516	2.65	45748	5.87	171167	6.87	99584	8.31	197959	9.77	193876	12.83	203740	14.46
9M110589.D	BNA MDL(S)-2	18986	2.63	40194	5.87	151070	6.87	86186	8.31	172099	9.77	164361	12.83	176010	14.46
9M110590.D	SMB98421	20032	2.64	41128	5.87	151357	6.87	89366	8.31	172964	9.77	170452	12.83	178667	14.46

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M89135.D Method: EPA 8270E

Analysis Date/Time: 01/13/22 10:23

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	58977	2.57	120689	5.79	468813	6.79	244940	8.22	459872	9.67	392444	12.71	422897	14.32
Eval File Area Limit:	29488-117954		60344-241378		234406-937626		122470-489880		229936-919744		196222-784888		211448-845794	
Eval File Rt Limit:	2.07-3.07		5.29-6.29		6.29-7.29		7.72-8.72		9.17-10.17		12.21-13.21		13.82-14.82	

Data File	Sample#													
10M89136.D	OMB98479(MS)	67975	2.56	137662	5.79	537867	6.79	276493	8.22	520623	9.67	438446	12.71	469531	14.32
10M89137.D	OMB98479	73607	2.57	149174	5.79	584507	6.79	295018	8.21	558562	9.67	466305	12.71	497437	14.32
10M89140.D	SMB98484(MS)	67257	2.57	159211	5.79	618048	6.79	317684	8.22	603740	9.67	503939	12.71	533239	14.32
10M89141.D	WMB98481(MS)	72866	2.57	143831	5.79	564503	6.79	287463	8.22	542539	9.67	454645	12.71	496368	14.32
10M89142.D	WMB98481	65103	2.56	133981	5.79	520865	6.79	263336	8.21	499987	9.67	421832	12.71	452434	14.32
10M89143.D	AD28123-003(T)(MS)	69792	2.56	137764	5.79	535506	6.79	269821	8.22	505560	9.67	424646	12.71	471546	14.32
10M89144.D	AD28123-003(T)(MSD	69167	2.57	134078	5.79	515877	6.79	258664	8.22	481952	9.67	403516	12.71	445312	14.32
10M89145.D	EF-SPLP V-363754(D	59260	2.56	119217	5.79	463160	6.79	230862	8.21	434073	9.67	360380	12.71	386365	14.32
10M89146.D	AD28123-003(T)	58040	2.56	116016	5.79	437395	6.79	216184	8.21	397369	9.67	334926	12.71	362180	14.32
10M89147.D	AD28258-001	64432	2.57	124247	5.79	461736	6.79	229421	8.21	426550	9.67	352101	12.71	375308	14.32
10M89148.D	AD28258-002	67659	2.57	132826	5.79	511517	6.79	252756	8.21	470483	9.67	391331	12.71	422773	14.32
10M89149.D	AD28258-003	69400	2.57	138660	5.79	526066	6.79	261005	8.21	496425	9.67	410359	12.71	442697	14.32
10M89150.D	AD28258-004	66605	2.57	130525	5.79	495138	6.79	248713	8.21	468836	9.67	389048	12.71	412564	14.32
10M89151.D	AD28258-005	73560	2.57	142007	5.79	520167	6.79	254946	8.21	470528	9.67	393407	12.71	435369	14.32
10M89152.D	AD28258-006	70739	2.56	144096	5.79	551245	6.79	267543	8.21	495939	9.67	420235	12.71	463110	14.32
10M89153.D	AD28258-007	64696	2.57	121399	5.79	461404	6.79	231005	8.21	429063	9.67	363195	12.71	387004	14.32
10M89154.D	AD28258-008	66938	2.57	131903	5.79	509959	6.79	255061	8.21	475201	9.67	396179	12.71	419629	14.32

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2011202 0279

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M89156.D Method: EPA 8270E

Analysis Date/Time: 01/14/22 09:00

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	62572	2.57	124940	5.79	481973	6.79	250814	8.21	472431	9.67	399099	12.71	439026	14.32
Eval File Area Limit:	31286-125144		62470-249880		240986-963946		125407-501628		236216-944862		199550-798198		219513-878052	
Eval File Rt Limit:	2.07-3.07		5.29-6.29		6.29-7.29		7.71-8.71		9.17-10.17		12.21-13.21		13.82-14.82	

Data File	Sample#													
10M89157.D	AD28274-006	59221	2.57	118266	5.79	449831	6.79	217014	8.21	398034	9.67	337074	12.71	368617	14.32
10M89158.D	AD28274-007	64593	2.57	125029	5.79	474684	6.79	233411	8.21	431506	9.67	365338	12.71	400326	14.32
10M89160.D	AD28258-009	64772	2.57	124301	5.79	469519	6.79	227305	8.21	423139	9.67	351884	12.71	384869	14.32
10M89161.D	AD28258-010	61565	2.58	118650	5.79	442872	6.79	213786	8.21	399300	9.67	330845	12.71	362072	14.32
10M89162.D	AD28258-011	63590	2.58	124093	5.79	465834	6.79	227046	8.21	421232	9.67	349656	12.71	383473	14.32
10M89163.D	AD28258-012	63809	2.58	122597	5.79	457114	6.79	222742	8.21	411132	9.67	342706	12.71	369701	14.32
10M89164.D	WMB95912	64263	2.58	124999	5.79	462714	6.79	219103	8.21	414008	9.67	337374	12.71	362048	14.32
10M89165.D	AD28258-013	67156	2.58	129919	5.79	492990	6.79	240397	8.21	452569	9.67	376659	12.71	399964	14.32
10M89166.D	AD28258-014	62110	2.58	121724	5.79	469300	6.79	234669	8.21	437942	9.67	365213	12.71	393233	14.32
10M89167.D	AD28258-015	71090	2.58	125259	5.79	468901	6.79	237073	8.21	439690	9.67	372185	12.71	401145	14.32
10M89168.D	AD28258-008	65932	2.57	126116	5.79	470876	6.79	229180	8.21	424500	9.67	354005	12.71	381464	14.32
10M89169.D	SMB98491	132728A	2.55	115046	5.79	434763	6.79	211056	8.21	398672	9.67	330269	12.71	354652	14.32
10M89170.D	WMB98488(MS)	58331	2.58	109069	5.79	403025	6.79	194962	8.21	361596	9.67	307419	12.71	339804	14.32
10M89171.D	WMB98488	55711	2.57	106929	5.79	400248	6.79	193744	8.21	359143	9.67	301859	12.71	329790	14.32

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M110724.D Method: EPA 8270E

Analysis Date/Time: 01/16/22 12:02

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	33464	2.65	57702	5.87	226567	6.87	113812	8.31	217926	9.78	212477	12.84	218258	14.47
Eval File Area Limit:	16732-66928		28851-115404		113284-453134		56906-227624		108963-435852		106238-424954		109129-436516	
Eval File Rt Limit:	2.15-3.15		5.37-6.37		6.37-7.37		7.81-8.81		9.28-10.28		12.34-13.34		13.97-14.97	

Data File	Sample#													
9M110725.D	WMB98497	27525	2.65	48938	5.87	188949	6.87	97250	8.31	184759	9.77	170283	12.83	174626	14.46
9M110726.D	WMB98496	25447	2.65	43182	5.87	174239	6.87	88105	8.31	166862	9.77	148890	12.83	152565	14.46
9M110727.D	AD28256-001	31124	2.65	52146	5.87	203473	6.87	102480	8.31	192142	9.77	178037	12.83	183566	14.46
9M110728.D	AD28256-002	29506	2.66	51182	5.87	191697	6.87	98377	8.31	184789	9.77	160602	12.83	176326	14.46
9M110729.D	AD28256-004	27105	2.65	47736	5.87	189524	6.87	96268	8.31	176940	9.77	165850	12.83	173533	14.46
9M110730.D	AD28256-005	27842	2.65	47777	5.87	192312	6.87	96955	8.31	187037	9.77	170232	12.83	175399	14.46
9M110731.D	AD28256-006	28247	2.65	48883	5.87	193729	6.87	94188	8.31	179328	9.77	156376	12.83	165075	14.46
9M110732.D	AD28256-007	25717	2.65	45153	5.87	181468	6.87	91138	8.31	176280	9.77	161798	12.83	166294	14.46
9M110733.D	AD28256-010	27230	2.65	46930	5.87	186942	6.87	95663	8.31	184216	9.77	165530	12.83	173228	14.46
9M110734.D	AD28290-001	28355	2.65	50948	5.87	199010	6.87	99203	8.31	184568	9.77	169249	12.83	182498	14.46
9M110735.D	AD28290-002	28987	2.66	51400	5.87	206872	6.87	103674	8.31	196807	9.77	178069	12.83	189368	14.46
9M110736.D	AD28290-003	30925	2.65	53084	5.87	209531	6.87	106072	8.31	201424	9.77	184230	12.83	193685	14.46
9M110737.D	AD28290-004	30845	2.65	52736	5.87	205344	6.87	101210	8.31	188896	9.77	174334	12.83	189215	14.46
9M110738.D	AD28290-005	29674	2.65	52006	5.87	204596	6.87	103872	8.31	197192	9.77	181896	12.83	188605	14.46
9M110739.D	AD28290-006	31101	2.65	55058	5.87	216727	6.87	108224	8.31	198827	9.77	176922	12.83	186071	14.46
9M110740.D	AD28290-007	28325	2.65	50667	5.87	197854	6.87	100340	8.31	181274	9.77	164021	12.83	178605	14.46
9M110741.D	AD28290-008	31465	2.65	54635	5.87	216484	6.87	110357	8.31	209466	9.77	193615	12.83	200436	14.46
9M110742.D	AD28258-002(R)	30840	2.65	51686	5.87	201819	6.87	104106	8.31	198095	9.77	180188	12.83	190479	14.46
9M110743.D	AD28275-017	29867	2.65	51071	5.87	199561	6.87	102149	8.31	195665	9.77	178292	12.83	182997	14.46
9M110744.D	AD28275-018	27907	2.66	47604	5.87	186806	6.87	95914	8.31	179969	9.77	167996	12.83	169811	14.46
9M110745.D	AD28275-019	29649	2.65	51181	5.87	198230	6.87	103965	8.31	195322	9.77	182842	12.83	196238	14.46
9M110746.D	AD28275-021	28239	2.66	47976	5.87	184514	6.88	94376	8.31	179944	9.77	169825	12.83	174936	14.46
9M110747.D	AD28275-022	27837	2.65	48585	5.87	187908	6.87	96355	8.31	179445	9.77	167684	12.83	176204	14.46
9M110748.D	AD28275-025	29713	2.65	50888	5.87	202371	6.87	102895	8.31	197204	9.77	176849	12.83	188158	14.46
9M110749.D	AD28275-026	28645	2.66	47443	5.87	196230	6.87	99947	8.31	186283	9.77	168639	12.83	175581	14.46
9M110750.D	AD28275-027	27617	2.65	46046	5.87	187563	6.88	94570	8.31	176501	9.78	165856	12.83	173985	14.46
9M110751.D	AD28275-029	27533	2.65	46689	5.87	183857	6.87	93505	8.31	179991	9.77	159898	12.83	168512	14.47

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2011202 0281

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M89173.D Method: EPA 8270E

Analysis Date/Time: 01/16/22 12:03

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	59292	2.58	115709	5.79	451104	6.79	231126	8.22	438247	9.67	374929	12.71	410894	14.32
Eval File Area Limit:	29646-118584		57854-231418		225552-902208		115563-462252		219124-876494		187464-749858		205447-821788	
Eval File Rt Limit:	2.08-3.08		5.29-6.29		6.29-7.29		7.72-8.72		9.17-10.17		12.21-13.21		13.82-14.82	

Data File	Sample#													
10M89174.D	WMB98496	46251	2.57	91133	5.79	353323	6.79	177769	8.21	332627	9.67	275051	12.71	300133	14.32
10M89175.D	WMB98497	51376	2.57	101152	5.79	388973	6.79	193841	8.21	363005	9.67	299808	12.71	321619	14.31
10M89176.D	WMB98496(MS)	50181	2.58	98018	5.79	375587	6.79	185830	8.21	349845	9.67	297312	12.71	323642	14.32
10M89177.D	WMB98497(MS)	49039	2.58	97677	5.79	375938	6.79	188599	8.22	356122	9.67	295762	12.71	328045	14.32
10M89178.D	AD28281-010	50443	2.58	100951	5.79	391290	6.79	194311	8.21	364195	9.67	307768	12.71	331738	14.32
10M89179.D	AD28281-024(MS:AD	52129	2.58	102240	5.79	390704	6.79	196422	8.21	366679	9.67	307196	12.71	339092	14.32
10M89180.D	AD28281-025(MSD:A	49563	2.58	96836	5.79	378482	6.79	189147	8.21	350962	9.67	297198	12.71	324826	14.32
10M89181.D	AD28256-003	50437	2.58	101007	5.79	390846	6.79	193923	8.21	360479	9.67	305049	12.71	333160	14.32
10M89182.D	AD28256-008(MS:AD	49911	2.59	95678	5.79	372237	6.79	188119	8.21	351651	9.67	297918	12.71	328169	14.32
10M89183.D	AD28256-009(MSD:A	51897	2.58	103099	5.79	397913	6.79	202234	8.21	375332	9.67	316454	12.71	352641	14.32
10M89184.D	AD28275-011	51106	2.59	103760	5.79	398040	6.79	201485	8.21	373003	9.67	315025	12.71	339661	14.32
10M89185.D	AD28275-012(MS:AD	55263	2.58	107287	5.79	416215	6.79	210380	8.21	392546	9.67	331804	12.71	362969	14.32
10M89186.D	AD28275-013(MSD:A	53011	2.58	103715	5.79	405185	6.79	202328	8.21	379442	9.67	322194	12.71	352673	14.32
10M89187.D	AD28281-008	44807	2.58	89541	5.79	348441	6.79	173414	8.21	330249	9.67	271034	12.71	290745	14.31
10M89188.D	AD28281-009	50350	2.58	100130	5.79	389976	6.79	193913	8.21	365947	9.67	299825	12.71	322631	14.31
10M89189.D	AD28281-011	56915	2.58	112191	5.79	434756	6.79	217142	8.21	404215	9.67	336307	12.71	364972	14.32
10M89190.D	AD28281-012	54754	2.58	109670	5.79	418625	6.79	209183	8.21	393114	9.67	322418	12.71	352070	14.32
10M89191.D	AD28281-013	57564	2.58	111543	5.79	431866	6.79	214796	8.21	406988	9.67	330217	12.71	356120	14.31
10M89192.D	AD28281-014	56680	2.58	111701	5.79	427308	6.79	212664	8.21	394707	9.67	326642	12.71	350442	14.32
10M89193.D	AD28281-015	52297	2.58	102333	5.79	397030	6.79	197763	8.21	372179	9.67	303279	12.71	321412	14.31
10M89194.D	AD28281-016	54655	2.58	107492	5.79	412941	6.79	204043	8.21	377855	9.67	310970	12.71	330430	14.32
10M89195.D	AD28281-017	52205	2.57	101929	5.79	392445	6.79	194936	8.21	368160	9.67	300036	12.71	319636	14.31
10M89196.D	AD28275-010	63269	2.58	118900	5.79	447358	6.79	214680	8.21	403636	9.67	331081	12.71	356097	14.32
10M89197.D	AD28275-023	62051	2.58	114755	5.79	428940	6.79	208982	8.21	380489	9.67	314103	12.71	336517	14.32
10M89198.D	AD28275-024	54725	2.58	106189	5.79	411889	6.79	202787	8.21	376673	9.67	311635	12.71	330284	14.32
10M89199.D	AD28275-009	64118	2.58	119172	5.79	446778	6.79	215922	8.21	401163	9.67	332512	12.71	355149	14.32
10M89200.D	AD28275-014	63011	2.58	117588	5.79	437412	6.79	213075	8.21	397545	9.67	323983	12.71	346321	14.32
10M89201.D	AD28275-015	63941	2.58	119292	5.79	447932	6.79	215193	8.21	403896	9.67	325427	12.71	349151	14.32
10M89202.D	AD28275-016	65614	2.58	121955	5.79	457225	6.79	218262	8.21	406584	9.67	333814	12.71	360365	14.32
10M89203.D	AD28275-028	47337	2.58	92483	5.79	356819	6.79	176762	8.21	331308	9.67	267958	12.71	283426	14.32

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

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Flags:

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R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke Report Of Analysis

Client: Intertek-PSI
HC Project #: 2021122
Project: CSA WMATA 0444100

Sample ID: SB-017 SS
Lab#: AD28861-001
Matrix: Soil/Terracore
Collection Date: 12/16/2021
Receipt Date: 12/17/2021

TCLP Lead (6010D)

Analyte	DF	Units	RL	Result
Lead	1	mg/l	0.050	ND

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
A Women-Owned, Disadvantaged, Small Business Enterprise
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 112702

Page 1 of

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek - PSI
Address: 2930 Eskridge Rd, Fairfax, VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: andres.acosta@intertek.com
1d) Send Report to: + rinzova.renthlei@intertek

Project Information

2a) Project: CSA WMATA
2b) Project Mgr:
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # A027961

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	8270 SVOC	TPH - DRO/GRO/GRO	4 Metals - As, Cd, Cr, Pb	TCLP Pb	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: H2O	9) Comments
		S																		
-001	SB-016 SS	S	12/16/21	0950		X	X	X	X	X		1	1						2	
-002	SB-017 SS			0945		X	X	X	X	X	X	1	1						2	
-003	SB-018 SS			1040		X	X	X	X	X		1	1						2	

-001

10) Relinquished by:	Accepted by:	Date	Time
	FEDEX	12/16/21	
FEDEX		12/17/21	8:25

11) Sampler (print name): RINZOVA RENTHLEI Date: 12/16/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2.4

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#