

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica – Tampa, FL
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett/Nicole Lancaster

Project No: 15268508.20000
 Job ID.: 680-88067-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/05/2013
 Date: 03/26/2013
 Date: 04/03/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 030513-RB-Shovel (680-88065-26).	

¹ Independent technical reviewer
 URS Group, Inc.
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Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (030513-RB-Shovel) was collected during the week of 03/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88065-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. An initial calibration is to be associated with each sample analysis. A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> Initial Calibration: 02/22/2013, instrument BSMC5973 ICV: 02/22/2013 @ 14:06 CCV: 03/14/2013 @ 11:35 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non- 		✓		<ul style="list-style-type: none"> ICV 02/22/2013 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> Chrysene @ -20.6%D (Lab: ≤ 35, Project: ≤ 20). Benzo(a)pyrene @ -21.7%D (Lab: ≤ 35, Project: ≤ 20). Positive bias is indicated by the ICV percent difference; therefore, J-flag detected chrysene and benzo(a)pyrene results in associated samples ² .	J, UJ

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>detects</p> <ul style="list-style-type: none"> o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and $RF \geq 0.050$ (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> o If $\%D > 20$ ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects o If $RF < 0.050$ (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$.	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			Prep Batch 135343: 680-88067-21 (CV0339A-CS-SP), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓				
<p>25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD $\%R < 10$: J and R Flag positive and ND results, respectively • MS and MSD $\%R > 10$ and $< \text{LCL}$: J-Flag positive and UJ-flag non-detect results • MS and MSD $R\% > \text{UCL}$ (or 140): J-Flag positive results 	✓				
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If $\%RPD > \text{UCL}$, J-flag positive result and UJ-flag non-detect result 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment B (Case Narrative)	
<p>Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment C). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Data Validation Checklist (Continued)

- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88067-21	CV0399A-CS-SP	Solid	03/05/13 10:38	03/07/13 09:44
680-88067-22	CV0399B-CS-SP	Solid	03/05/13 10:48	03/07/13 09:44
680-88067-23	CV0277A-CS-SP	Solid	03/05/13 14:43	03/07/13 09:44
680-88067-24	CV0277B-CS-SP	Solid	03/05/13 14:56	03/07/13 09:44
680-88067-25	CV0632A-SP-SP	Solid	03/05/13 15:39	03/07/13 09:44
680-88067-26	CV0632B-SP-SP	Solid	03/05/13 15:45	03/07/13 09:44
680-88067-27	HP0199A-CS	Solid	03/05/13 15:40	03/07/13 09:44
680-88067-28	HP0199B-CS	Solid	03/05/13 15:50	03/07/13 09:44
680-88067-29	HP0255B-CS	Solid	03/05/13 14:30	03/07/13 09:44
680-88067-30	HP0255C-CS	Solid	03/05/13 14:40	03/07/13 09:44
680-88067-31	HP0258A-CS	Solid	03/05/13 15:00	03/07/13 09:44
680-88067-32	HP0258B-CS	Solid	03/05/13 15:10	03/07/13 09:44

ATTACHMENT B
CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Job ID: 680-88067-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88067-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0399A-CS-SP (680-88067-21), CV0399B-CS-SP (680-88067-22), CV0277A-CS-SP (680-88067-23), CV0277B-CS-SP (680-88067-24), CV0632A-SP-SP (680-88067-25), CV0632B-SP-SP (680-88067-26), HP0199A-CS (680-88067-27), HP0199B-CS (680-88067-28), HP0255B-CS (680-88067-29), HP0255C-CS (680-88067-30), HP0258A-CS (680-88067-31) and HP0258B-CS (680-88067-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/13/2013 and analyzed on 03/14/2013.

Samples CV0399B-CS-SP (680-88067-22)[4X], CV0632A-SP-SP (680-88067-25)[4X] and CV0632B-SP-SP (680-88067-26)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

ATTACHMENT C
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0399A-CS-SP

Lab Sample ID: 680-88067-21

Date Collected: 03/05/13 10:38

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 80.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Acenaphthylene	14	J	49	6.2	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Anthracene	55		10	5.2	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Benzo[a]anthracene	320		9.8	4.8	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Benzo[a]pyrene	300	J	13	6.4	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Benzo[b]fluoranthene	530		15	7.5	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Benzo[g,h,i]perylene	230		25	5.4	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Benzo[k]fluoranthene	200		9.8	4.4	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Chrysene	360	J	11	5.5	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Dibenz(a,h)anthracene	69		25	5.0	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Fluoranthene	570		25	4.9	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Fluorene	23	J	25	5.0	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Indeno[1,2,3-cd]pyrene	190		25	8.7	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
1-Methylnaphthalene	69		49	5.4	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
2-Methylnaphthalene	83		49	8.7	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Naphthalene	54		49	5.4	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Phenanthrene	310		9.8	4.8	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Pyrene	490		25	4.6	ug/Kg	☐	03/13/13 12:00	03/14/13 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		30 - 130				03/13/13 12:00	03/14/13 15:52	1

Client Sample ID: CV0399B-CS-SP

Lab Sample ID: 680-88067-22

Date Collected: 03/05/13 10:48

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 70.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Acenaphthylene	98	J	220	28	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Anthracene	220		47	23	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Benzo[a]anthracene	1100		44	22	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Benzo[a]pyrene	1000	J	58	29	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Benzo[b]fluoranthene	1700		68	34	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Benzo[g,h,i]perylene	650		110	24	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Benzo[k]fluoranthene	620		44	20	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Chrysene	1200	J	50	25	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Dibenz(a,h)anthracene	220		110	23	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Fluoranthene	2100		110	22	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Fluorene	100	J	110	23	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Indeno[1,2,3-cd]pyrene	650		110	39	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
1-Methylnaphthalene	110	J	220	24	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
2-Methylnaphthalene	130	J	220	39	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Naphthalene	140	J	220	24	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Phenanthrene	1100		44	22	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Pyrene	2000		110	21	ug/Kg	☐	03/13/13 12:00	03/14/13 16:47	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130				03/13/13 12:00	03/14/13 16:47	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0277A-CS-SP

Lab Sample ID: 680-88067-23

Date Collected: 03/05/13 14:43

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 83.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Acenaphthylene	18	J	48	6.0	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Anthracene	43		10	5.0	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Benzo[a]anthracene	510		9.6	4.7	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Benzo[a]pyrene	500	J	12	6.2	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Benzo[b]fluoranthene	950		15	7.3	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Benzo[g,h,i]perylene	370		24	5.3	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Benzo[k]fluoranthene	430		9.6	4.3	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Chrysene	770	J	11	5.4	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Dibenz(a,h)anthracene	120		24	4.9	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Fluoranthene	1000		24	4.8	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Fluorene	17	J	24	4.9	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Indeno[1,2,3-cd]pyrene	370		24	8.5	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
1-Methylnaphthalene	77		48	5.3	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
2-Methylnaphthalene	96		48	8.5	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Naphthalene	82		48	5.3	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Phenanthrene	290		9.6	4.7	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Pyrene	910		24	4.4	ug/Kg	*	03/13/13 12:00	03/14/13 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/13/13 12:00	03/14/13 17:06	1

Client Sample ID: CV0277B-CS-SP

Lab Sample ID: 680-88067-24

Date Collected: 03/05/13 14:56

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 65.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	150	30	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Acenaphthylene	24	J	60	7.5	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Anthracene	160		13	6.3	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Benzo[a]anthracene	650		12	5.8	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Benzo[a]pyrene	680	J	16	7.8	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Benzo[b]fluoranthene	1000		18	9.1	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Benzo[g,h,i]perylene	420		30	6.6	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Benzo[k]fluoranthene	500		12	5.4	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Chrysene	870	J	13	6.7	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Dibenz(a,h)anthracene	130		30	6.1	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Fluoranthene	1400		30	6.0	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Fluorene	33		30	6.1	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Indeno[1,2,3-cd]pyrene	340		30	11	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
1-Methylnaphthalene	120		60	6.6	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
2-Methylnaphthalene	140		60	11	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Naphthalene	110		60	6.6	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Phenanthrene	760		12	5.8	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Pyrene	1500		30	5.5	ug/Kg	*	03/13/13 12:00	03/14/13 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/13/13 12:00	03/14/13 17:24	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0632A-SP-SP

Lab Sample ID: 680-88067-25

Date Collected: 03/05/13 15:39

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 70.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Acenaphthylene	54	J	230	28	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Anthracene	110		48	24	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Benzo[a]anthracene	560		45	22	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Benzo[a]pyrene	470	J	59	29	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Benzo[b]fluoranthene	930		69	35	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Benzo[g,h,i]perylene	310		110	25	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Benzo[k]fluoranthene	210		45	20	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Chrysene	730	J	51	25	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Dibenz(a,h)anthracene	90	J	110	23	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Fluoranthene	1000		110	23	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Fluorene	45	J	110	23	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Indeno[1,2,3-cd]pyrene	290		110	40	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
1-Methylnaphthalene	360		230	25	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
2-Methylnaphthalene	390		230	40	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Naphthalene	270		230	25	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Phenanthrene	750		45	22	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Pyrene	980		110	21	ug/Kg	☐	03/13/13 12:00	03/14/13 17:42	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/13/13 12:00	03/14/13 17:42	4

Client Sample ID: CV0632B-SP-SP

Lab Sample ID: 680-88067-26

Date Collected: 03/05/13 15:45

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 73.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Acenaphthylene	55	J	210	27	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Anthracene	190		45	22	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Benzo[a]anthracene	1200		42	21	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Benzo[a]pyrene	1100	J	55	28	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Benzo[b]fluoranthene	1800		65	32	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Benzo[g,h,i]perylene	690		110	23	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Benzo[k]fluoranthene	730		42	19	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Chrysene	1300	J	48	24	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Dibenz(a,h)anthracene	230		110	22	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Fluoranthene	2000		110	21	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Fluorene	55	J	110	22	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Indeno[1,2,3-cd]pyrene	550		110	38	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
1-Methylnaphthalene	380		210	23	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
2-Methylnaphthalene	400		210	38	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Naphthalene	270		210	23	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Phenanthrene	980		42	21	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Pyrene	1800		110	20	ug/Kg	☐	03/13/13 12:00	03/14/13 18:01	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/13/13 12:00	03/14/13 18:01	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: HP0199A-CS

Lab Sample ID: 680-88067-27

Date Collected: 03/05/13 15:40

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 65.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	150	U	150	31	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Acenaphthylene	62	U	62	7.7	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Anthracene	13	U	13	6.5	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Benzo[a]anthracene	25		12	6.0	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Benzo[a]pyrene	16	J	16	8.0	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Benzo[b]fluoranthene	22		19	9.4	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Benzo[g,h,i]perylene	19	J	31	6.8	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Benzo[k]fluoranthene	16		12	5.6	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Chrysene	35	J	14	7.0	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Dibenz(a,h)anthracene	31	U	31	6.3	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Fluoranthene	29	J	31	6.2	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Fluorene	31	U	31	6.3	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Indeno[1,2,3-cd]pyrene	31	U	31	11	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
1-Methylnaphthalene	10	J	62	6.8	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
2-Methylnaphthalene	13	J	62	11	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Naphthalene	18	J	62	6.8	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Phenanthrene	26		12	6.0	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
Pyrene	27	J	31	5.7	ug/Kg	☐	03/13/13 12:00	03/14/13 18:19	1	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>	
<i>o-Terphenyl</i>	69		30 - 130				03/13/13 12:00	03/14/13 18:19	1	

Client Sample ID: HP0199B-CS

Lab Sample ID: 680-88067-28

Date Collected: 03/05/13 15:50

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 76.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	1300	U	1300	260	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Acenaphthylene	520	U	520	66	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Anthracene	110	U	110	55	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Benzo[a]anthracene	100	U	100	51	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Benzo[a]pyrene	140	U J	140	68	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Benzo[b]fluoranthene	100	J	160	80	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Benzo[g,h,i]perylene	120	J	260	58	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Benzo[k]fluoranthene	100	U	100	47	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Chrysene	120	U J	120	59	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Dibenz(a,h)anthracene	260	U	260	54	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Fluoranthene	110	J	260	52	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Fluorene	260	U	260	54	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Indeno[1,2,3-cd]pyrene	260	U	260	93	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
1-Methylnaphthalene	520	U	520	58	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
2-Methylnaphthalene	520	U	520	93	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Naphthalene	59	J	520	58	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Phenanthrene	120		100	51	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
Pyrene	98	J	260	48	ug/Kg	☐	03/13/13 12:00	03/14/13 18:37	1	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>	
<i>o-Terphenyl</i>	46		30 - 130				03/13/13 12:00	03/14/13 18:37	1	

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: HP0255B-CS

Lab Sample ID: 680-88067-29

Date Collected: 03/05/13 14:30

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 76.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Acenaphthylene	25	J	52	6.5	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Anthracene	36		11	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[a]anthracene	180		10	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[a]pyrene	200	J	14	6.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[b]fluoranthene	350		16	8.0	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[g,h,i]perylene	180		26	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[k]fluoranthene	150		10	4.7	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Chrysene	210	J	12	5.9	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Dibenz(a,h)anthracene	68		26	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Fluoranthene	260		26	5.2	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Fluorene	18	J	26	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Indeno[1,2,3-cd]pyrene	130		26	9.3	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
1-Methylnaphthalene	44	J	52	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
2-Methylnaphthalene	66		52	9.3	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Naphthalene	58		52	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Phenanthrene	230		10	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Pyrene	260		26	4.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		30 - 130				03/13/13 12:00	03/14/13 18:56	1

Client Sample ID: HP0255C-CS

Lab Sample ID: 680-88067-30

Date Collected: 03/05/13 14:40

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 78.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Acenaphthylene	18	J	50	6.3	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Anthracene	16		11	5.3	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[a]anthracene	66		10	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[a]pyrene	67	J	13	6.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[b]fluoranthene	150		15	7.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[g,h,i]perylene	63		25	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[k]fluoranthene	75		10	4.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Chrysene	100	J	11	5.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Dibenz(a,h)anthracene	19	J	25	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Fluoranthene	120		25	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Fluorene	7.8	J	25	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Indeno[1,2,3-cd]pyrene	56		25	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
1-Methylnaphthalene	29	J	50	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
2-Methylnaphthalene	26	J	50	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Naphthalene	38	J	50	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Phenanthrene	88		10	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Pyrene	110		25	4.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/13/13 12:00	03/14/13 19:14	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: HP0258A-CS

Lab Sample ID: 680-88067-31

Date Collected: 03/05/13 15:00

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 78.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Acenaphthylene	8.7	J	50	6.2	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Anthracene	14		10	5.2	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Benzo[a]anthracene	56		10	4.9	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Benzo[a]pyrene	62	J	13	6.5	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Benzo[b]fluoranthene	120		15	7.6	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Benzo[g,h,i]perylene	48		25	5.5	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Benzo[k]fluoranthene	47		10	4.5	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Chrysene	100	J	11	5.6	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Dibenz(a,h)anthracene	21	J	25	5.1	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Fluoranthene	67		25	5.0	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Fluorene	11	J	25	5.1	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Indeno[1,2,3-cd]pyrene	44		25	8.9	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
1-Methylnaphthalene	46	J	50	5.5	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
2-Methylnaphthalene	55		50	8.9	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Naphthalene	57		50	5.5	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Phenanthrene	66		10	4.9	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
Pyrene	75		25	4.6	ug/Kg	☐	03/13/13 12:00	03/14/13 19:32	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	63		30 - 130				03/13/13 12:00	03/14/13 19:32	1

Client Sample ID: HP0258B-CS

Lab Sample ID: 680-88067-32

Date Collected: 03/05/13 15:10

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 80.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Acenaphthylene	11	J	49	6.1	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Anthracene	19		10	5.1	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Benzo[a]anthracene	110		9.8	4.8	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Benzo[a]pyrene	110	J	13	6.3	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Benzo[b]fluoranthene	200		15	7.4	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Benzo[g,h,i]perylene	81		24	5.4	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Benzo[k]fluoranthene	84		9.8	4.4	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Chrysene	160	J	11	5.5	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Dibenz(a,h)anthracene	26		24	5.0	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Fluoranthene	190		24	4.9	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Fluorene	24	U	24	5.0	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Indeno[1,2,3-cd]pyrene	71		24	8.7	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
1-Methylnaphthalene	38	J	49	5.4	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
2-Methylnaphthalene	31	J	49	8.7	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Naphthalene	53		49	5.4	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Phenanthrene	99		9.8	4.8	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
Pyrene	180		24	4.5	ug/Kg	☐	03/13/13 12:00	03/14/13 19:51	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	74		30 - 130				03/13/13 12:00	03/14/13 19:51	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

ANALYTICAL REPORT

Job Number: 680-88067-2

SDG Number: 68088067-2

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
3/19/2013 9:12 AM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

03/19/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88067-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0399A-CS-SP (680-88067-21), CV0399B-CS-SP (680-88067-22), CV0277A-CS-SP (680-88067-23), CV0277B-CS-SP (680-88067-24), CV0632A-SP-SP (680-88067-25), CV0632B-SP-SP (680-88067-26), HP0199A-CS (680-88067-27), HP0199B-CS (680-88067-28), HP0255B-CS (680-88067-29), HP0255C-CS (680-88067-30), HP0258A-CS (680-88067-31) and HP0258B-CS (680-88067-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/13/2013 and analyzed on 03/14/2013.

Samples CV0399B-CS-SP (680-88067-22)[4X], CV0632A-SP-SP (680-88067-25)[4X] and CV0632B-SP-SP (680-88067-26)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

Sdg Number: 68088067-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88067-21	CV0399A-CS-SP	Solid	03/05/2013 1038	03/07/2013 0944
680-88067-21MS	CV0399A-CS-SP	Solid	03/05/2013 1038	03/07/2013 0944
680-88067-21MSD	CV0399A-CS-SP	Solid	03/05/2013 1038	03/07/2013 0944
680-88067-22	CV0399B-CS-SP	Solid	03/05/2013 1048	03/07/2013 0944
680-88067-23	CV0277A-CS-SP	Solid	03/05/2013 1443	03/07/2013 0944
680-88067-24	CV0277B-CS-SP	Solid	03/05/2013 1456	03/07/2013 0944
680-88067-25	CV0632A-SP-SP	Solid	03/05/2013 1539	03/07/2013 0944
680-88067-26	CV0632B-SP-SP	Solid	03/05/2013 1545	03/07/2013 0944
680-88067-27	HP0199A-CS	Solid	03/05/2013 1540	03/07/2013 0944
680-88067-28	HP0199B-CS	Solid	03/05/2013 1550	03/07/2013 0944
680-88067-29	HP0255B-CS	Solid	03/05/2013 1430	03/07/2013 0944
680-88067-30	HP0255C-CS	Solid	03/05/2013 1440	03/07/2013 0944
680-88067-31	HP0258A-CS	Solid	03/05/2013 1500	03/07/2013 0944
680-88067-32	HP0258B-CS	Solid	03/05/2013 1510	03/07/2013 0944

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

Sdg Number: 68088067-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

Sdg Number: 68088067-2

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

Sdg Number: 68088067-2

Lab Section	Qualifier	Description
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

Sdg Number: 68088067-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-135343					
LCS 660-135343/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135343/1-A	Method Blank	T	Solid	3546	
680-88067-21	CV0399A-CS-SP	T	Solid	3546	
680-88067-21MS	Matrix Spike	T	Solid	3546	
680-88067-21MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88067-22	CV0399B-CS-SP	T	Solid	3546	
680-88067-23	CV0277A-CS-SP	T	Solid	3546	
680-88067-24	CV0277B-CS-SP	T	Solid	3546	
680-88067-25	CV0632A-SP-SP	T	Solid	3546	
680-88067-26	CV0632B-SP-SP	T	Solid	3546	
680-88067-27	HP0199A-CS	T	Solid	3546	
680-88067-28	HP0199B-CS	T	Solid	3546	
680-88067-29	HP0255B-CS	T	Solid	3546	
680-88067-30	HP0255C-CS	T	Solid	3546	
680-88067-31	HP0258A-CS	T	Solid	3546	
680-88067-32	HP0258B-CS	T	Solid	3546	
Analysis Batch:660-135453					
LCS 660-135343/2-A	Lab Control Sample	T	Solid	8270C LL	660-135343
MB 660-135343/1-A	Method Blank	T	Solid	8270C LL	660-135343
680-88067-21	CV0399A-CS-SP	T	Solid	8270C LL	660-135343
680-88067-21MS	Matrix Spike	T	Solid	8270C LL	660-135343
680-88067-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135343
680-88067-22	CV0399B-CS-SP	T	Solid	8270C LL	660-135343
680-88067-23	CV0277A-CS-SP	T	Solid	8270C LL	660-135343
680-88067-24	CV0277B-CS-SP	T	Solid	8270C LL	660-135343
680-88067-25	CV0632A-SP-SP	T	Solid	8270C LL	660-135343
680-88067-26	CV0632B-SP-SP	T	Solid	8270C LL	660-135343
680-88067-27	HP0199A-CS	T	Solid	8270C LL	660-135343
680-88067-28	HP0199B-CS	T	Solid	8270C LL	660-135343
680-88067-29	HP0255B-CS	T	Solid	8270C LL	660-135343
680-88067-30	HP0255C-CS	T	Solid	8270C LL	660-135343
680-88067-31	HP0258A-CS	T	Solid	8270C LL	660-135343
680-88067-32	HP0258B-CS	T	Solid	8270C LL	660-135343

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

Sdg Number: 68088067-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135227					
MB 660-135227/1	Method Blank	T	Solid	Moisture	
680-88067-21	CV0399A-CS-SP	T	Solid	Moisture	
680-88067-21MS	Matrix Spike	T	Solid	Moisture	
680-88067-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88067-22	CV0399B-CS-SP	T	Solid	Moisture	
680-88067-23	CV0277A-CS-SP	T	Solid	Moisture	
680-88067-24	CV0277B-CS-SP	T	Solid	Moisture	
680-88067-25	CV0632A-SP-SP	T	Solid	Moisture	
680-88067-26	CV0632B-SP-SP	T	Solid	Moisture	
680-88067-27	HP0199A-CS	T	Solid	Moisture	
680-88067-28	HP0199B-CS	T	Solid	Moisture	
680-88067-29	HP0255B-CS	T	Solid	Moisture	
680-88067-30	HP0255C-CS	T	Solid	Moisture	
680-88067-31	HP0258A-CS	T	Solid	Moisture	
680-88067-32	HP0258B-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2SDG No.: 68088067-2Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: _____Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID: _____Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID: _____Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID: _____Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID: _____Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2

SDG No.: 68088067-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/8 Client Sample ID: _____

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: IC 660-134776/9 Client Sample ID: _____

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: ICV 660-134776/10 Client Sample ID: _____

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2SDG No.: 68088067-2Instrument ID: BSMC5973 Analysis Batch Number: 135453Lab Sample ID: CCVIS 660-135453/3 Client Sample ID: _____Date Analyzed: 03/14/13 11:35 Lab File ID: 1CC14003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/14/13 11:51

Lab Sample ID: LCS 660-135343/2-A Client Sample ID: _____Date Analyzed: 03/14/13 12:30 Lab File ID: 1CC14006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/14/13 12:45

Lab Sample ID: 680-88067-21 Client Sample ID: CV0399A-CS-SPDate Analyzed: 03/14/13 15:52 Lab File ID: 1CC14017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 10:56
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 10:56
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 10:57

Lab Sample ID: 680-88067-21 MS Client Sample ID: CV0399A-CS-SP MSDate Analyzed: 03/14/13 16:10 Lab File ID: 1CC14018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 10:57

Lab Sample ID: 680-88067-21 MSD Client Sample ID: CV0399A-CS-SP MSDDate Analyzed: 03/14/13 16:29 Lab File ID: 1CC14019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 10:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2SDG No.: 68088067-2Instrument ID: BSMC5973 Analysis Batch Number: 135453Lab Sample ID: 680-88067-22 Client Sample ID: CV0399B-CS-SPDate Analyzed: 03/14/13 16:47 Lab File ID: 1CC14020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 11:08
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 11:09
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/18/13 11:09
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 11:09

Lab Sample ID: 680-88067-23 Client Sample ID: CV0277A-CS-SPDate Analyzed: 03/14/13 17:06 Lab File ID: 1CC14021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 11:10

Lab Sample ID: 680-88067-24 Client Sample ID: CV0277B-CS-SPDate Analyzed: 03/14/13 17:24 Lab File ID: 1CC14022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 11:24
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 11:24
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 11:25

Lab Sample ID: 680-88067-25 Client Sample ID: CV0632A-SP-SPDate Analyzed: 03/14/13 17:42 Lab File ID: 1CC14023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 11:25
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 11:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2SDG No.: 68088067-2Instrument ID: BSMC5973 Analysis Batch Number: 135453Lab Sample ID: 680-88067-26 Client Sample ID: CV0632B-SP-SPDate Analyzed: 03/14/13 18:01 Lab File ID: 1CC14024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 12:33
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 12:33
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 12:34

Lab Sample ID: 680-88067-27 Client Sample ID: HP0199A-CSDate Analyzed: 03/14/13 18:19 Lab File ID: 1CC14025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.45	Baseline Event	cantins	03/18/13 12:34

Lab Sample ID: 680-88067-28 Client Sample ID: HP0199B-CSDate Analyzed: 03/14/13 18:37 Lab File ID: 1CC14026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.46	Baseline Event	cantins	03/18/13 12:36

Lab Sample ID: 680-88067-29 Client Sample ID: HP0255B-CSDate Analyzed: 03/14/13 18:56 Lab File ID: 1CC14027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 12:38
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 12:38
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 12:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2SDG No.: 68088067-2Instrument ID: BSMC5973 Analysis Batch Number: 135453Lab Sample ID: 680-88067-30 Client Sample ID: HP0255C-CSDate Analyzed: 03/14/13 19:14 Lab File ID: 1CC14028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 12:39
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 12:40
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 12:40

Lab Sample ID: 680-88067-31 Client Sample ID: HP0258A-CSDate Analyzed: 03/14/13 19:32 Lab File ID: 1CC14029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 12:41

Lab Sample ID: 680-88067-32 Client Sample ID: HP0258B-CSDate Analyzed: 03/14/13 19:51 Lab File ID: 1CC14030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 12:41
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 12:42
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/18/13 12:42
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 12:42

Method 8270C Low Level

Semivolatile Organic Compounds
(GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-88067-2

SDG No.: 68088067-2

Matrix: Solid

Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
CV0399A-CS-SP	680-88067-21	71
CV0399B-CS-SP	680-88067-22	59
CV0277A-CS-SP	680-88067-23	63
CV0277B-CS-SP	680-88067-24	73
CV0632A-SP-SP	680-88067-25	63
CV0632B-SP-SP	680-88067-26	62
HP0199A-CS	680-88067-27	69
HP0199B-CS	680-88067-28	46
HP0255B-CS	680-88067-29	77
HP0255C-CS	680-88067-30	70
HP0258A-CS	680-88067-31	63
HP0258B-CS	680-88067-32	74
	MB 660-135343/1-A	79
	LCS 660-135343/2-A	79
CV0399A-CS-SP MS	680-88067-21 MS	68
CV0399A-CS-SP MSD	680-88067-21 MSD	68

OTPH = o-Terphenyl

QC LIMITS
30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Matrix: Solid Level: Low Lab File ID: 1CC14006.D
 Lab ID: LCS 660-135343/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	484	74	39-130	
Acenaphthylene	656	504	77	38-130	
Anthracene	656	524	80	37-130	
Benzo[a]anthracene	656	524	80	40-130	
Benzo[a]pyrene	656	477	73	49-130	
Benzo[b]fluoranthene	656	541	82	37-130	
Benzo[g,h,i]perylene	656	487	74	32-130	
Benzo[k]fluoranthene	656	514	78	32-130	
Chrysene	656	502	76	41-130	
Dibenz(a,h)anthracene	656	513	78	27-130	
Fluoranthene	656	532	81	40-130	
Fluorene	656	524	80	40-130	
Indeno[1,2,3-cd]pyrene	656	468	71	30-130	
1-Methylnaphthalene	656	542	83	31-130	
2-Methylnaphthalene	656	532	81	33-130	
Naphthalene	656	510	78	36-130	
Phenanthrene	656	499	76	42-130	
Pyrene	656	526	80	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Matrix: Solid Level: Low Lab File ID: 1CC14018.D
 Lab ID: 680-88067-21 MS Client ID: CV0399A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	820	120 U	518	63	39-130	
Acenaphthylene	820	14 J	507	60	38-130	
Anthracene	820	55	645	72	37-130	
Benzo[a]anthracene	820	320	952	77	40-130	
Benzo[a]pyrene	820	300	884	71	49-130	
Benzo[b]fluoranthene	820	530	1170	78	37-130	
Benzo[g,h,i]perylene	820	230	776	67	32-130	
Benzo[k]fluoranthene	820	200	844	78	32-130	
Chrysene	820	360	913	67	41-130	
Dibenz(a,h)anthracene	820	69	651	71	27-130	
Fluoranthene	820	570	1170	73	40-130	
Fluorene	820	23 J	604	71	40-130	
Indeno[1,2,3-cd]pyrene	820	190	741	67	30-130	
1-Methylnaphthalene	820	69	569	61	31-130	
2-Methylnaphthalene	820	83	531	55	33-130	
Naphthalene	820	54	452	48	36-130	
Phenanthrene	820	310	882	70	42-130	
Pyrene	820	490	1150	81	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Matrix: Solid Level: Low Lab File ID: 1CC14019.D
 Lab ID: 680-88067-21 MSD Client ID: CV0399A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	820	553	67	7	40	39-130	
Acenaphthylene	820	591	70	15	40	38-130	
Anthracene	820	645	72	0	40	37-130	
Benzo[a]anthracene	820	998	82	5	40	40-130	
Benzo[a]pyrene	820	918	75	4	40	49-130	
Benzo[b]fluoranthene	820	1230	86	5	40	37-130	
Benzo[g,h,i]perylene	820	790	69	2	40	32-130	
Benzo[k]fluoranthene	820	853	79	1	40	32-130	
Chrysene	820	919	68	1	40	41-130	
Dibenz(a,h)anthracene	820	648	71	1	40	27-130	
Fluoranthene	820	1320	91	12	40	40-130	
Fluorene	820	580	68	4	40	40-130	
Indeno[1,2,3-cd]pyrene	820	780	72	5	40	30-130	
1-Methylnaphthalene	820	627	68	10	40	31-130	
2-Methylnaphthalene	820	614	65	15	40	33-130	
Naphthalene	820	552	61	20	40	36-130	
Phenanthrene	820	929	76	5	40	42-130	
Pyrene	820	1250	94	8	40	44-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Lab File ID: 1CC14005.D Lab Sample ID: MB 660-135343/1-A
 Matrix: Solid Date Extracted: 03/13/2013 12:00
 Instrument ID: BSMC5973 Date Analyzed: 03/14/2013 12:12
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135343/2-A	1CC14006.D	03/14/2013 12:30
CV0399A-CS-SP	680-88067-21	1CC14017.D	03/14/2013 15:52
CV0399A-CS-SP MS	680-88067-21 MS	1CC14018.D	03/14/2013 16:10
CV0399A-CS-SP MSD	680-88067-21 MSD	1CC14019.D	03/14/2013 16:29
CV0399B-CS-SP	680-88067-22	1CC14020.D	03/14/2013 16:47
CV0277A-CS-SP	680-88067-23	1CC14021.D	03/14/2013 17:06
CV0277B-CS-SP	680-88067-24	1CC14022.D	03/14/2013 17:24
CV0632A-SP-SP	680-88067-25	1CC14023.D	03/14/2013 17:42
CV0632B-SP-SP	680-88067-26	1CC14024.D	03/14/2013 18:01
HP0199A-CS	680-88067-27	1CC14025.D	03/14/2013 18:19
HP0199B-CS	680-88067-28	1CC14026.D	03/14/2013 18:37
HP0255B-CS	680-88067-29	1CC14027.D	03/14/2013 18:56
HP0255C-CS	680-88067-30	1CC14028.D	03/14/2013 19:14
HP0258A-CS	680-88067-31	1CC14029.D	03/14/2013 19:32
HP0258B-CS	680-88067-32	1CC14030.D	03/14/2013 19:51

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:41
 Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.3
68	Less than 2.0 % of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	59.2
70	Less than 2.0 % of mass 69	0.3 (0.4)1
127	10.0 - 80.0 % of mass 198	53.6
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	8.6
275	10.0 - 60.0 % of mass 198	19.2
365	Greater than 1.0 % of mass 198	2.0
441	Present but less than mass 443	7.5
442	Greater than 50.0 % of mass 198	52.1
443	15.0 - 24.0 % of mass 442	8.7 (16.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Lab File ID: 1CC14002.D DFTPP Injection Date: 03/14/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:18
 Analysis Batch No.: 135453

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.5
68	Less than 2.0 % of mass 69	0.9 (1.8)1
69	Mass 69 relative abundance	49.8
70	Less than 2.0 % of mass 69	0.3 (0.5)1
127	10.0 - 80.0 % of mass 198	50.4
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.7
275	10.0 - 60.0 % of mass 198	20.5
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	63.2
443	15.0 - 24.0 % of mass 442	12.9 (20.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135453/3	1CC14003.D	03/14/2013	11:35
	MB 660-135343/1-A	1CC14005.D	03/14/2013	12:12
	LCS 660-135343/2-A	1CC14006.D	03/14/2013	12:30
CV0399A-CS-SP	680-88067-21	1CC14017.D	03/14/2013	15:52
CV0399A-CS-SP MS	680-88067-21 MS	1CC14018.D	03/14/2013	16:10
CV0399A-CS-SP MSD	680-88067-21 MSD	1CC14019.D	03/14/2013	16:29
CV0399B-CS-SP	680-88067-22	1CC14020.D	03/14/2013	16:47
CV0277A-CS-SP	680-88067-23	1CC14021.D	03/14/2013	17:06
CV0277B-CS-SP	680-88067-24	1CC14022.D	03/14/2013	17:24
CV0632A-SP-SP	680-88067-25	1CC14023.D	03/14/2013	17:42
CV0632B-SP-SP	680-88067-26	1CC14024.D	03/14/2013	18:01
HP0199A-CS	680-88067-27	1CC14025.D	03/14/2013	18:19
HP0199B-CS	680-88067-28	1CC14026.D	03/14/2013	18:37
HP0255B-CS	680-88067-29	1CC14027.D	03/14/2013	18:56
HP0255C-CS	680-88067-30	1CC14028.D	03/14/2013	19:14
HP0258A-CS	680-88067-31	1CC14029.D	03/14/2013	19:32
HP0258B-CS	680-88067-32	1CC14030.D	03/14/2013	19:51

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1215005	3.80	932815	4.89	1859738	5.85
UPPER LIMIT	2430010	4.30	1865630	5.39	3719476	6.35
LOWER LIMIT	607503	3.30	466408	4.39	929869	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134776/10	1383069	3.80	1075067	4.89	2141313	5.85

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	2424157	7.80	2664188	9.02		
UPPER LIMIT	4848314	8.30	5328376	9.52		
LOWER LIMIT	1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134776/10	2766374	7.80	3034368	9.02		

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Sample No.: CCVIS 660-135453/3 Date Analyzed: 03/14/2013 11:35
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC14003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	916985	3.75	747114	4.84	1456984	5.79	
UPPER LIMIT	1833970	4.25	1494228	5.34	2913968	6.29	
LOWER LIMIT	458493	3.25	373557	4.34	728492	5.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135343/1-A	884986	3.75	692456	4.84	1356649	5.79	
LCS 660-135343/2-A	917299	3.75	727709	4.84	1386401	5.79	
680-88067-21	CV0399A-CS-SP	1028436	3.75	807690	4.84	1489413	5.79
680-88067-21 MS	CV0399A-CS-SP MS	1012737	3.75	839896	4.84	1549703	5.79
680-88067-21 MSD	CV0399A-CS-SP MSD	982850	3.76	793699	4.84	1510668	5.79
680-88067-22	CV0399B-CS-SP	994724	3.75	806933	4.84	1490744	5.79
680-88067-23	CV0277A-CS-SP	978752	3.75	787836	4.84	1429124	5.79
680-88067-24	CV0277B-CS-SP	1043451	3.75	833761	4.84	1501950	5.79
680-88067-25	CV0632A-SP-SP	1110639	3.76	851646	4.84	1605291	5.79
680-88067-26	CV0632B-SP-SP	1010408	3.76	828901	4.84	1478255	5.79
680-88067-27	HP0199A-CS	1034249	3.75	831904	4.84	1487017	5.79
680-88067-28	HP0199B-CS	1157375	3.76	905746	4.84	1657197	5.79
680-88067-29	HP0255B-CS	1074895	3.76	843809	4.84	1489536	5.79
680-88067-30	HP0255C-CS	1057976	3.75	838844	4.84	1551850	5.79
680-88067-31	HP0258A-CS	1079706	3.75	864262	4.84	1583517	5.79
680-88067-32	HP0258B-CS	1056244	3.75	820131	4.84	1537186	5.79

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Sample No.: CCVIS 660-135453/3 Date Analyzed: 03/14/2013 11:35
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC14003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1842127	7.73	1864332	8.93		
UPPER LIMIT	3684254	8.23	3728664	9.43		
LOWER LIMIT	921064	7.23	932166	8.43		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135343/1-A		1693605	7.73	1765518	8.92	
LCS 660-135343/2-A		1719095	7.73	1717036	8.92	
680-88067-21	CV0399A-CS-SP	1621149	7.73	1453976	8.92	
680-88067-21 MS	CV0399A-CS-SP MS	1685259	7.73	1515409	8.92	
680-88067-21 MSD	CV0399A-CS-SP MSD	1697498	7.73	1514801	8.92	
680-88067-22	CV0399B-CS-SP	1574404	7.73	1479610	8.92	
680-88067-23	CV0277A-CS-SP	1575051	7.73	1487037	8.92	
680-88067-24	CV0277B-CS-SP	1598002	7.73	1510570	8.93	
680-88067-25	CV0632A-SP-SP	1615967	7.73	1544810	8.92	
680-88067-26	CV0632B-SP-SP	1599913	7.73	1517802	8.92	
680-88067-27	HP0199A-CS	1584960	7.73	1509366	8.92	
680-88067-28	HP0199B-CS	2607435	7.73	1809635	8.93	
680-88067-29	HP0255B-CS	1573462	7.73	1419125	8.93	
680-88067-30	HP0255C-CS	1625617	7.73	1522556	8.92	
680-88067-31	HP0258A-CS	1626206	7.73	1519984	8.92	
680-88067-32	HP0258B-CS	1613965	7.73	1525219	8.92	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0399A-CS-SP Lab Sample ID: 680-88067-21
 Matrix: Solid Lab File ID: 1CC14017.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 10:38
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.19(g) Date Analyzed: 03/14/2013 15:52
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	14	J	49	6.2
120-12-7	Anthracene	55		10	5.2
56-55-3	Benzo[a]anthracene	320		9.8	4.8
50-32-8	Benzo[a]pyrene	300		13	6.4
205-99-2	Benzo[b]fluoranthene	530		15	7.5
191-24-2	Benzo[g,h,i]perylene	230		25	5.4
207-08-9	Benzo[k]fluoranthene	200		9.8	4.4
218-01-9	Chrysene	360		11	5.5
53-70-3	Dibenz(a,h)anthracene	69		25	5.0
206-44-0	Fluoranthene	570		25	4.9
86-73-7	Fluorene	23	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	190		25	8.7
90-12-0	1-Methylnaphthalene	69		49	5.4
91-57-6	2-Methylnaphthalene	83		49	8.7
91-20-3	Naphthalene	54		49	5.4
85-01-8	Phenanthrene	310		9.8	4.8
129-00-0	Pyrene	490		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14017.D
 Lab Smp Id: 680-88067-A-21-A Client Smp ID: CV0399A-CS-SP
 Inj Date : 14-MAR-2013 15:52
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-21-a
 Misc Info : 680-88067-A-21-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	19.730	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	1028436	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	807690	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1489413	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.044)	160658	7.14429	585.9347	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1621149	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1453976	40.0000		
2 Naphthalene	128		3.769	3.768	(1.005)	17677	0.66023	54.1482	
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	18120	1.01459	83.2107	
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	13729	0.84405	69.2238	
5 Acenaphthylene	152		4.751	4.751	(0.982)	5380	0.16522	13.5500	
9 Fluorene	166		5.180	5.180	(1.070)	7207	0.28155	23.0914(Q)	
11 Phenanthrene	178		5.804	5.804	(1.003)	162732	3.77856	309.8959	
12 Anthracene	178		5.839	5.839	(1.009)	28484	0.67627	55.4635	
13 Carbazole	167		5.945	5.945	(1.027)	23850	0.63700	52.2429	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.147)	329242	6.98081	572.5271
16 Pyrene	202	6.809	6.809	(0.881)	258059	5.92340	485.8036
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	183565	3.92321	321.7596
19 Chrysene	228	7.751	7.751	(1.002)	206265	4.40505	361.2776
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	246786	6.49474	532.6624(M)
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	96806	2.48349	203.6817(QM)
22 Benzo(a)pyrene	252	8.862	8.868	(0.993)	134486	3.64379	298.8428
24 Indeno(1,2,3-cd)pyrene	276	10.098	10.097	(1.132)	81874	2.35810	193.3984(M)
25 Dibenzo(a,h)anthracene	278	10.109	10.121	(1.133)	28386	0.83583	68.5503
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	100511	2.76735	226.9624

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC14017.D

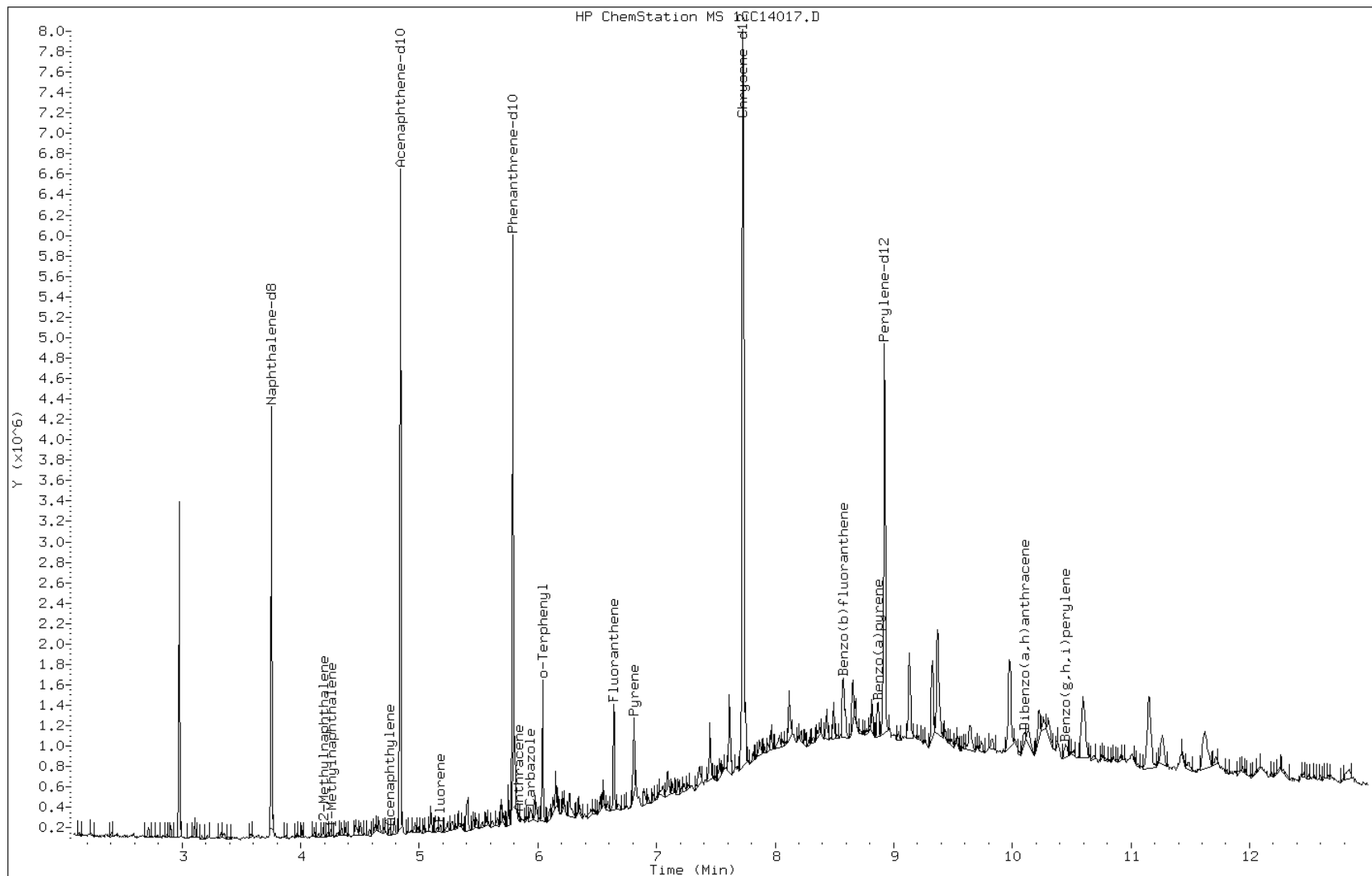
Date: 14-MAR-2013 15:52

Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

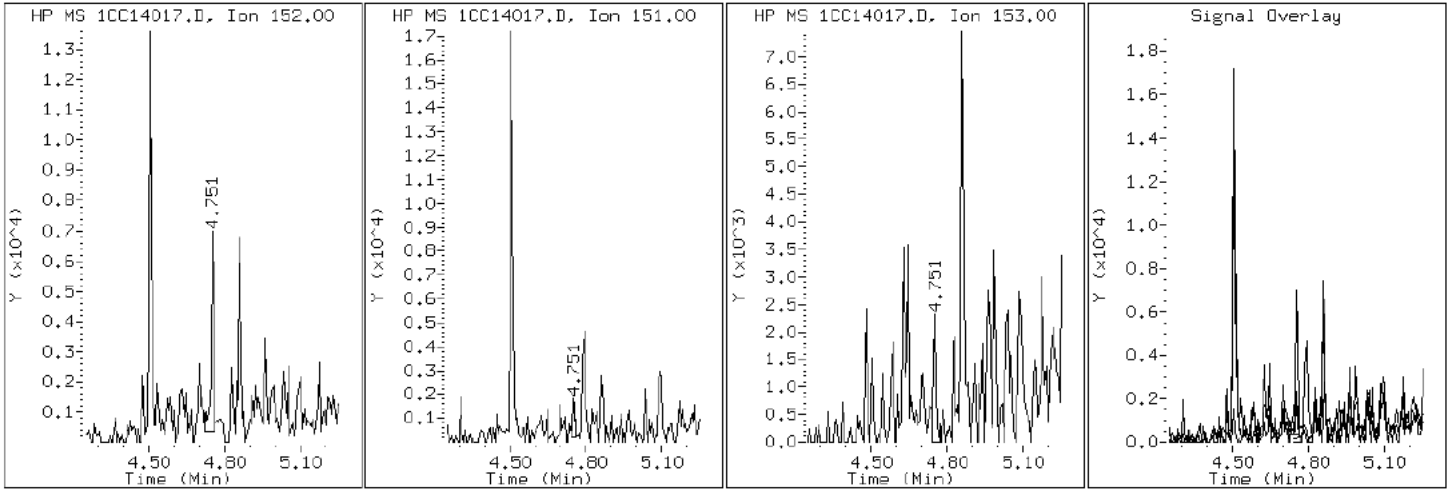
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

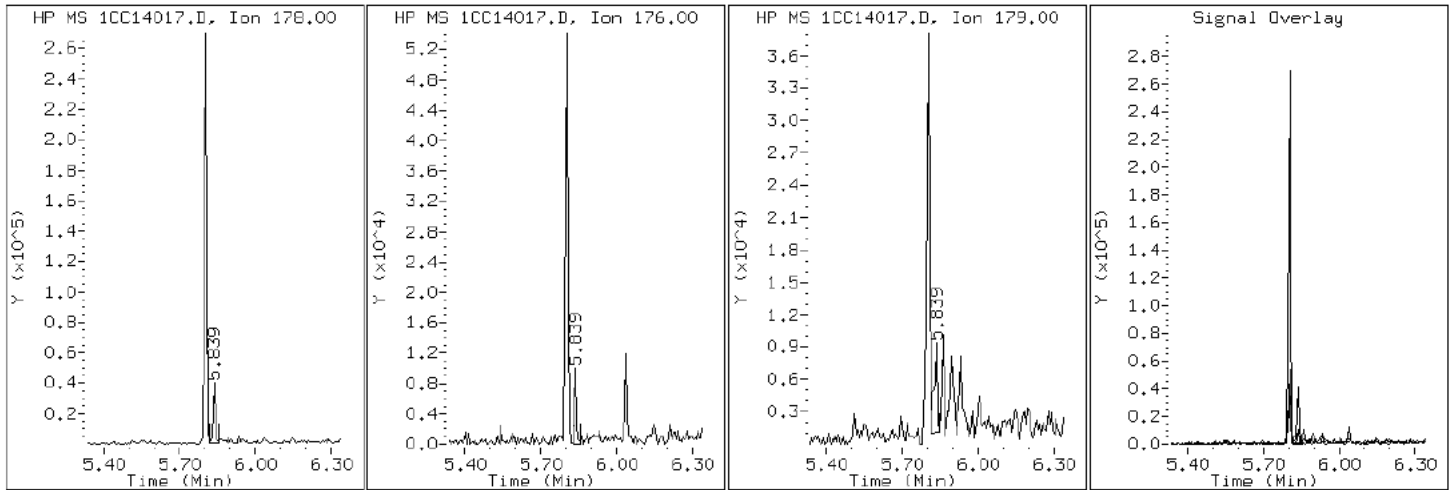
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

12 Anthracene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

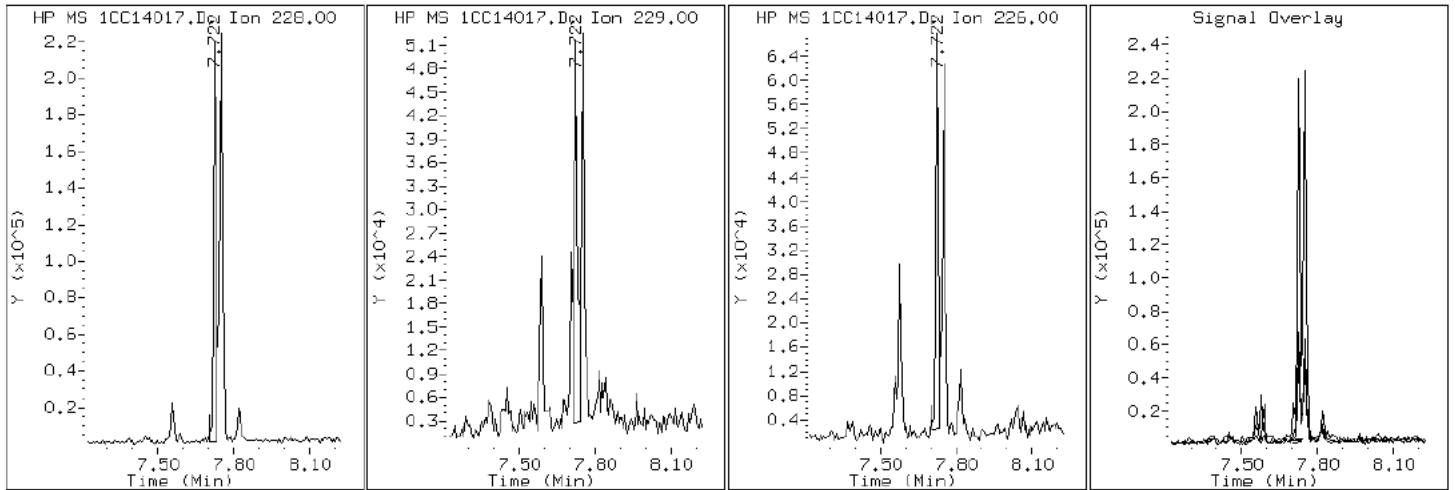
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

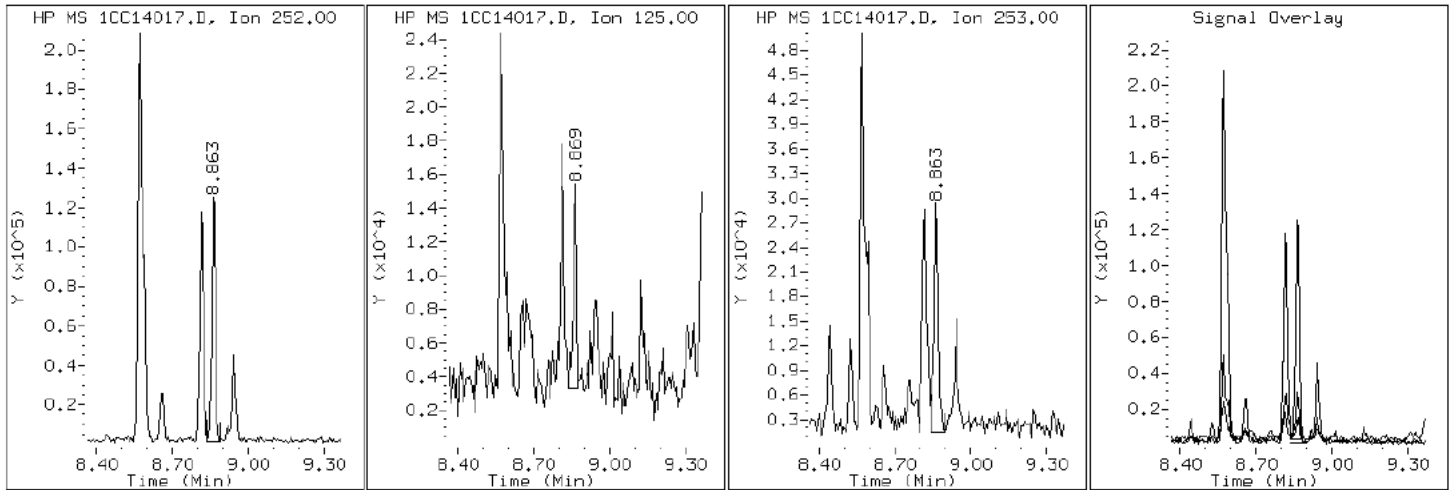
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

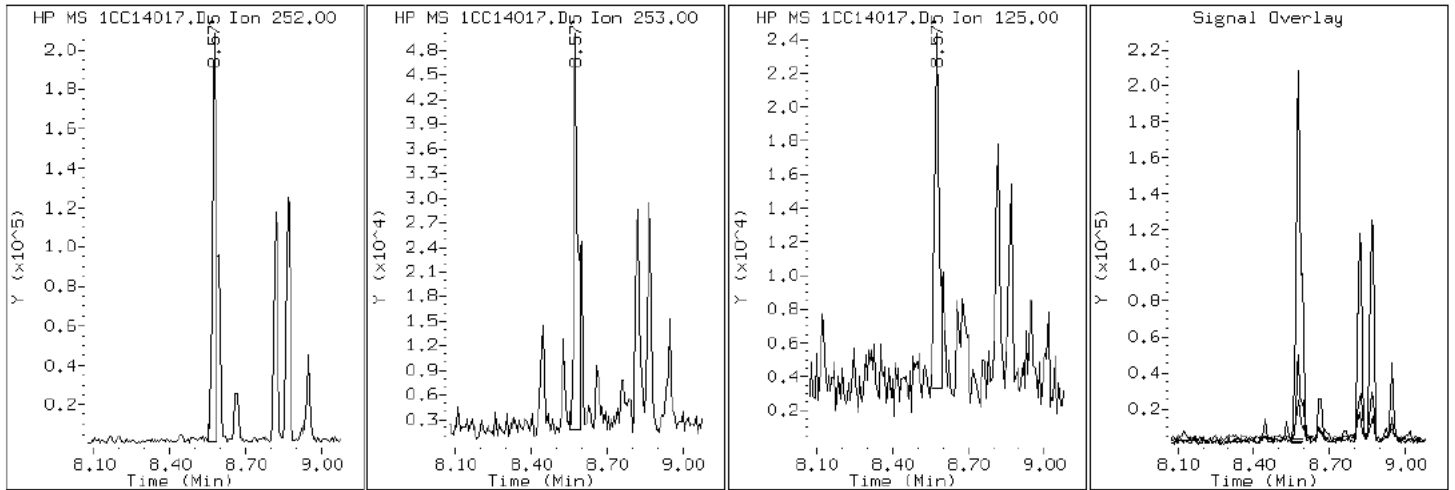
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

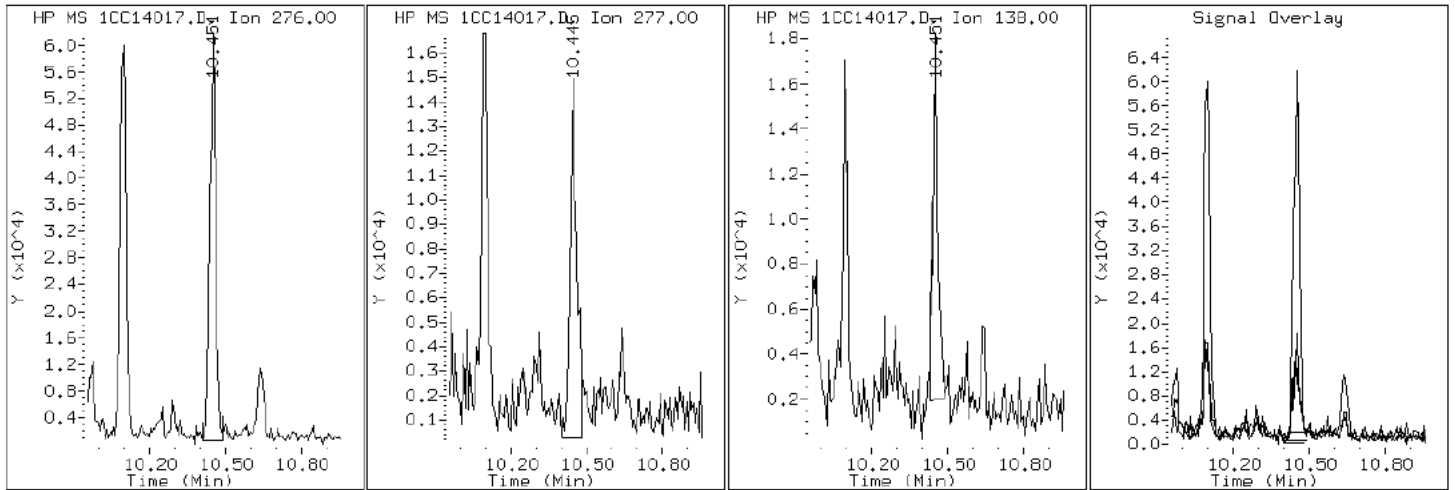
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

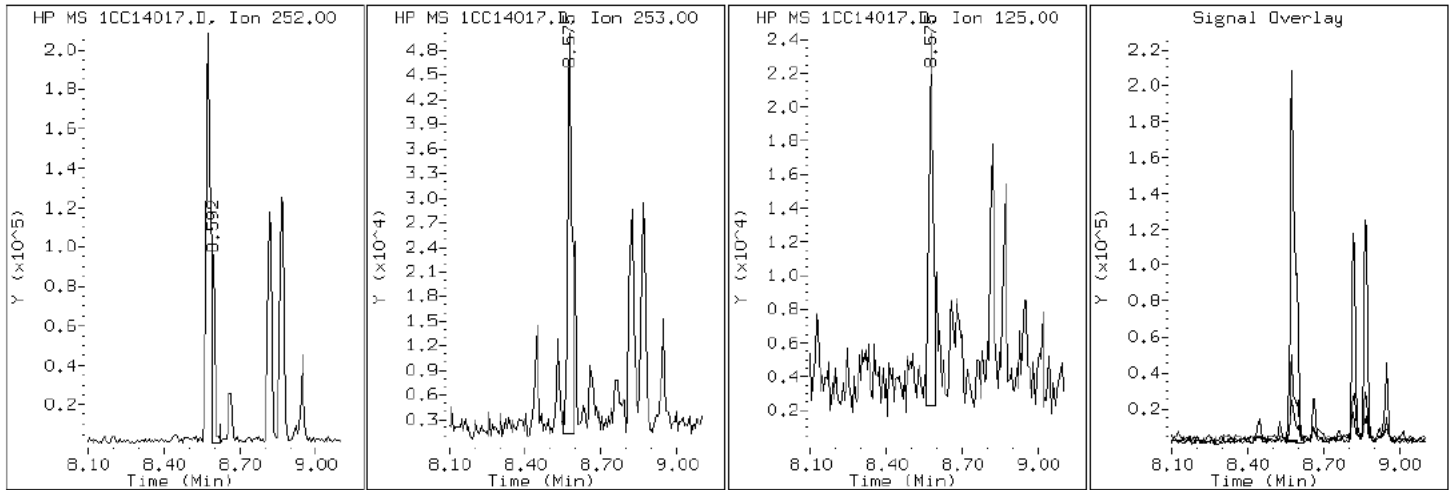
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

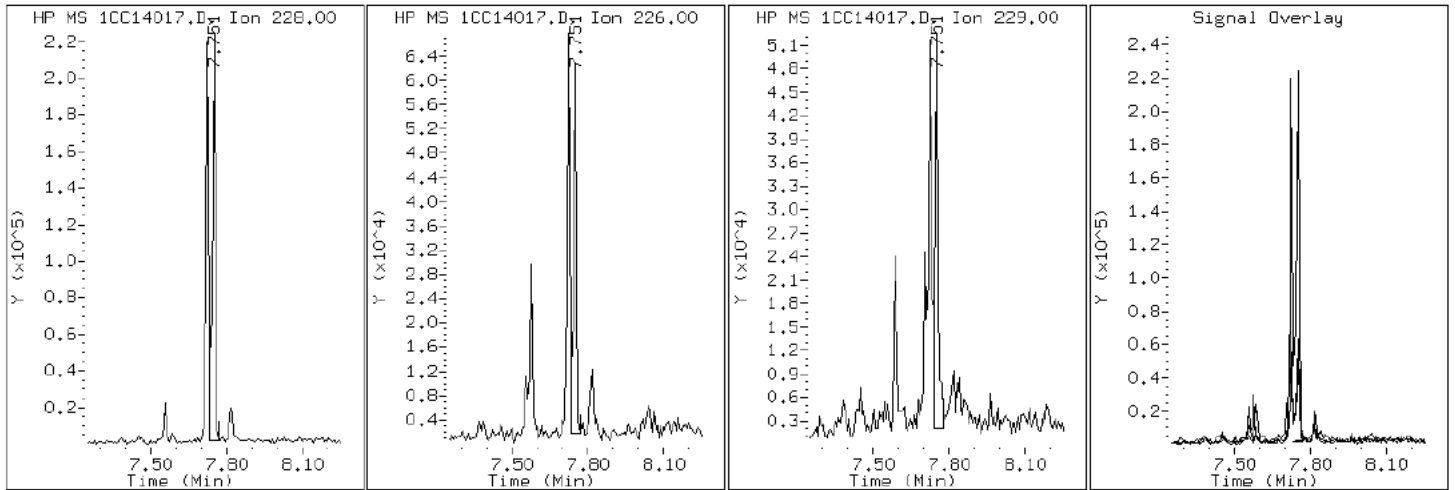
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

19 Chrysene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

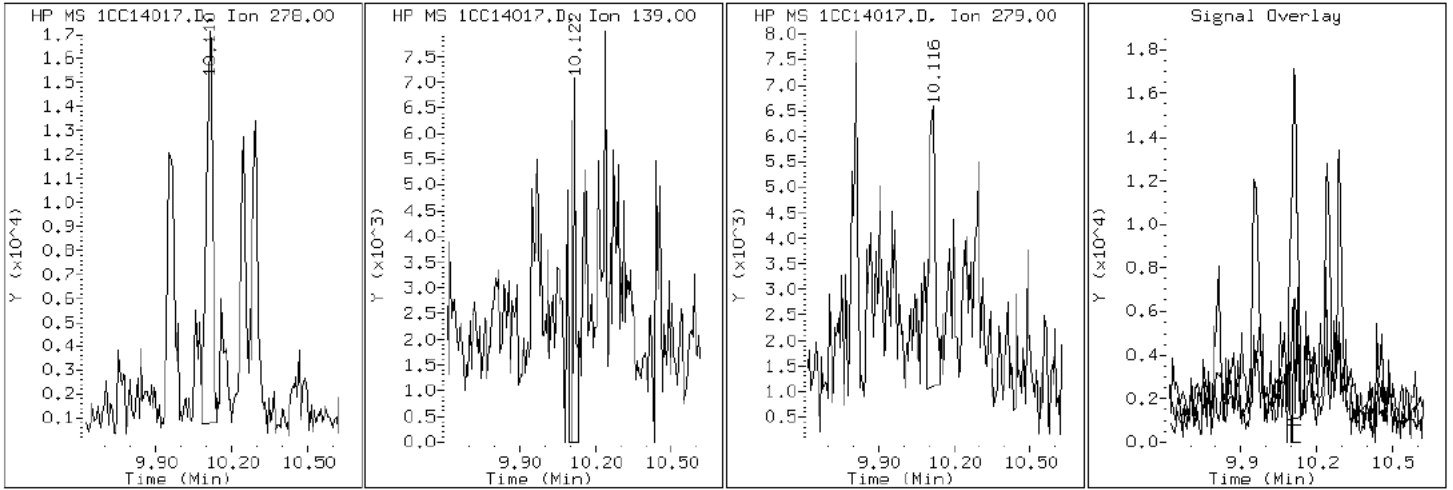
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

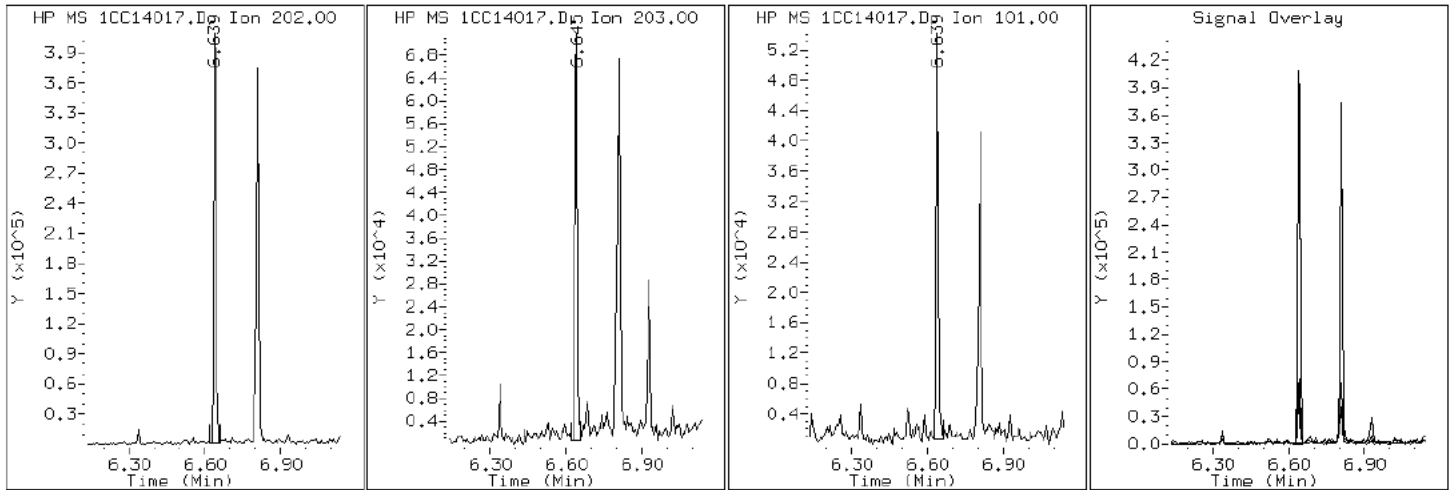
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

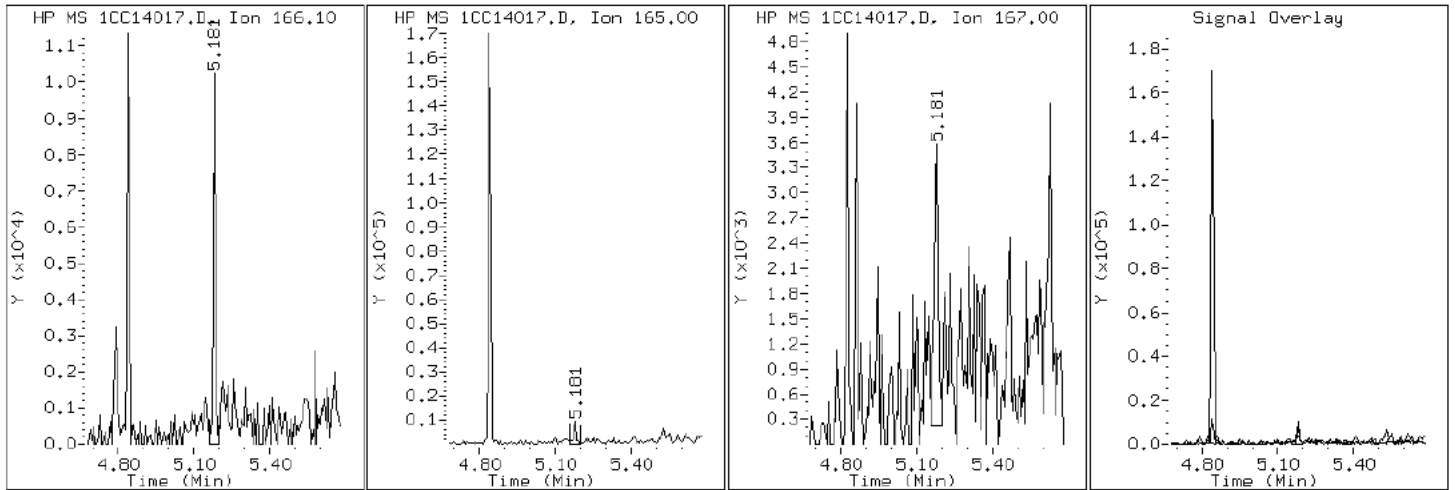
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

9 Fluorene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

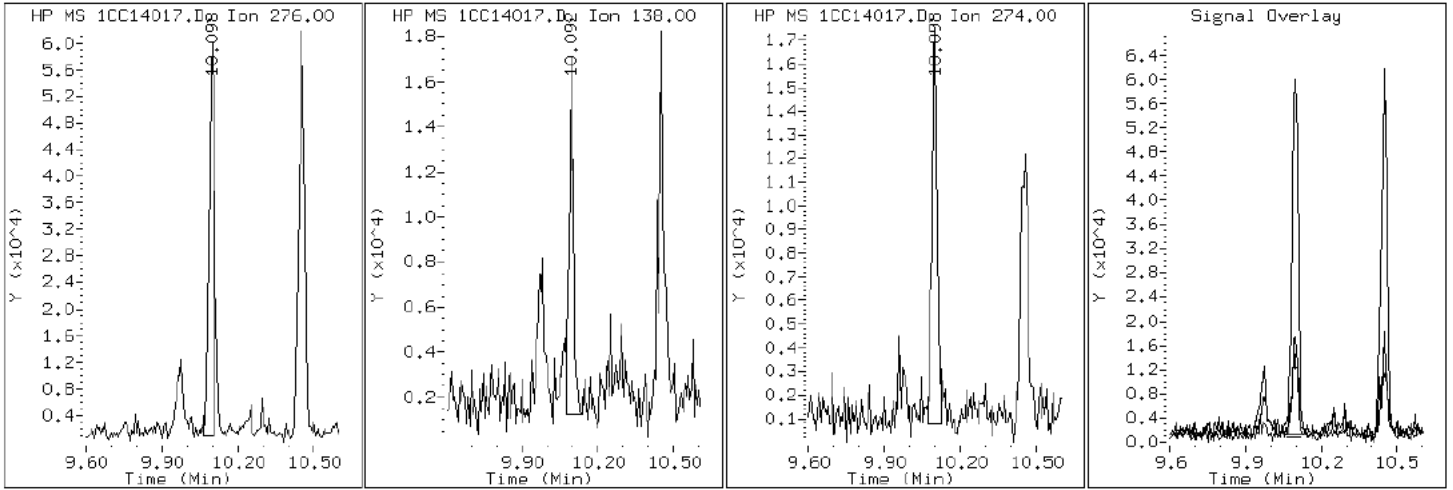
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

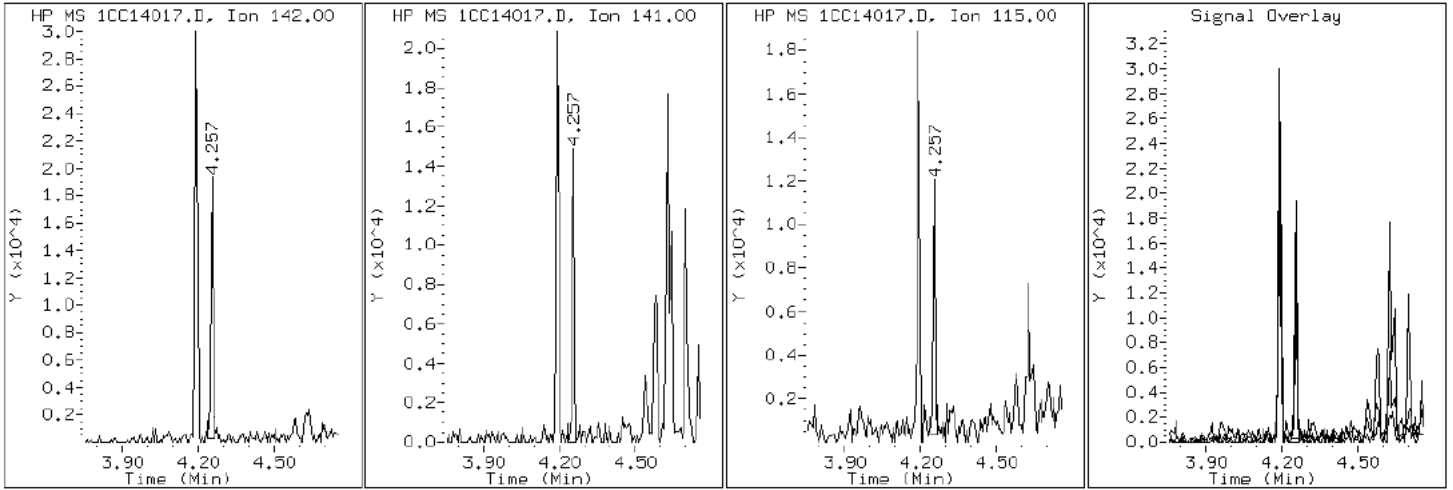
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

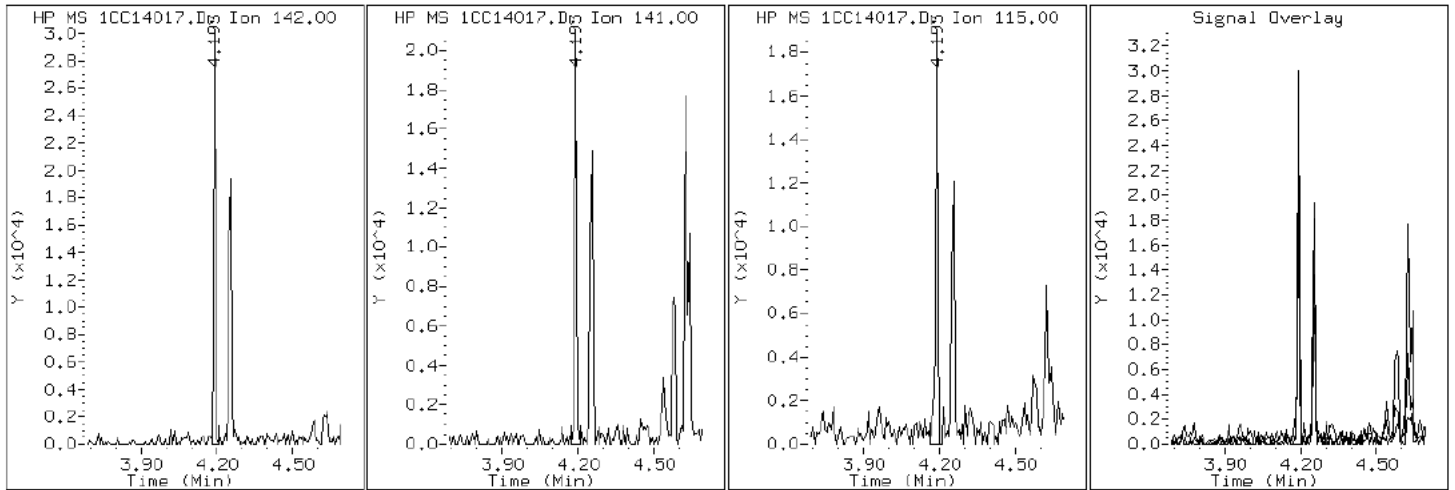
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

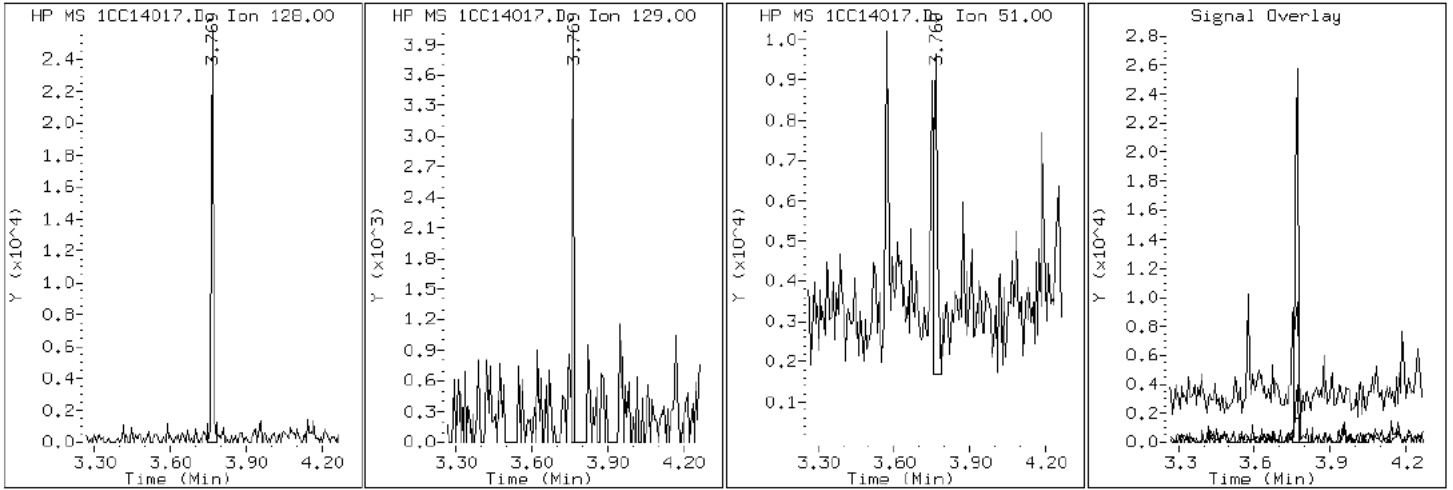
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

2 Naphthalene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

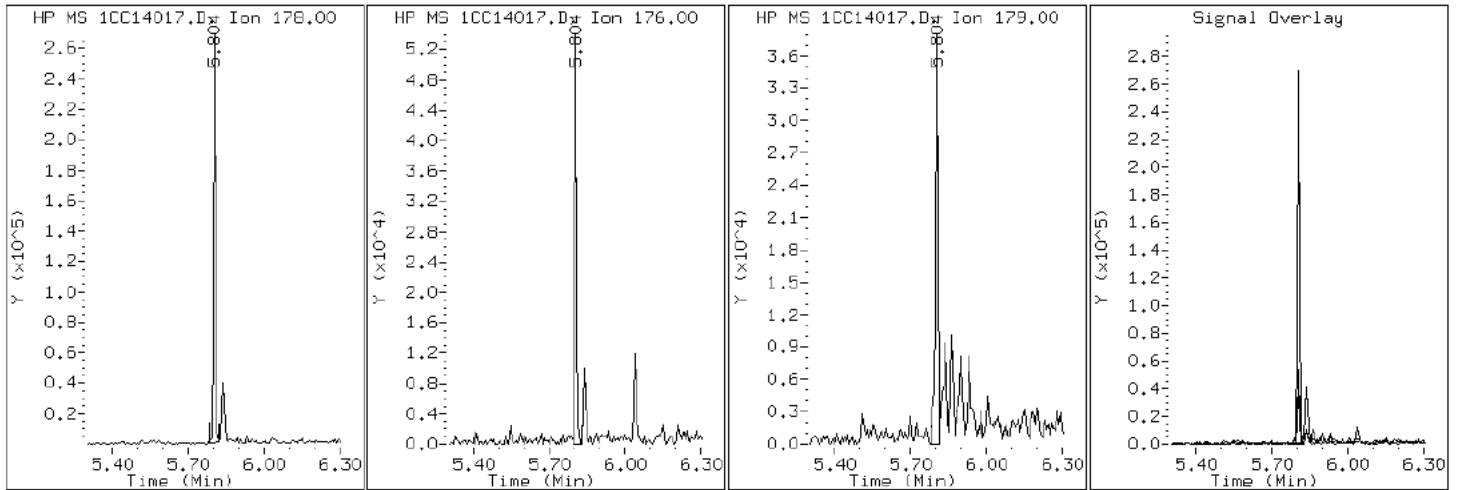
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14017.D

Date: 14-MAR-2013 15:52

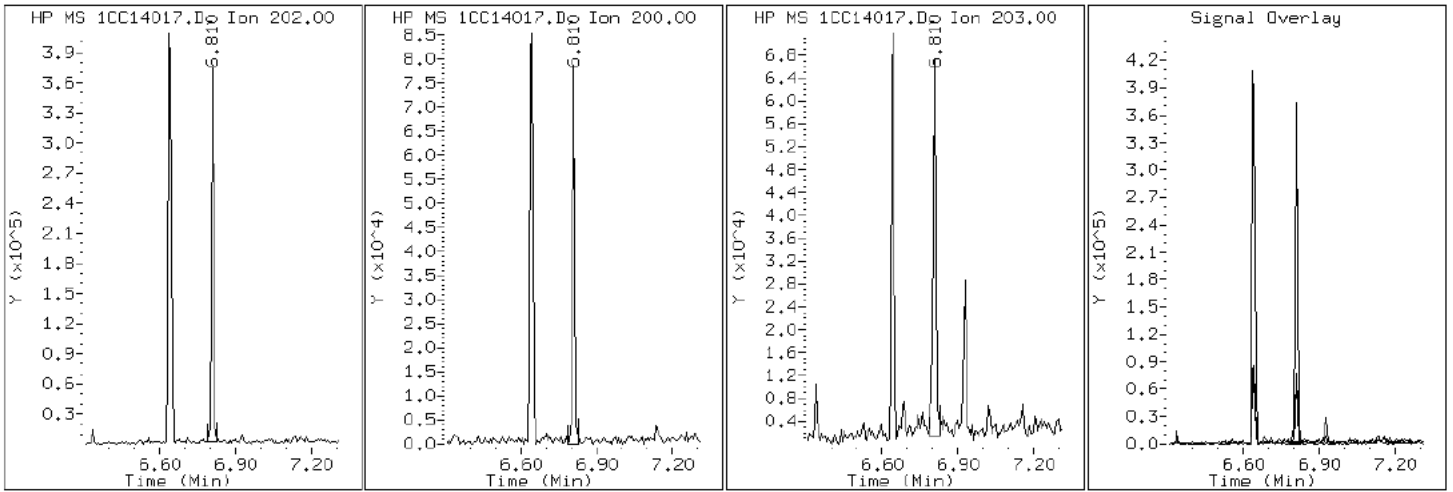
Client ID: CV0399A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-a

Operator: SCC

16 Pyrene

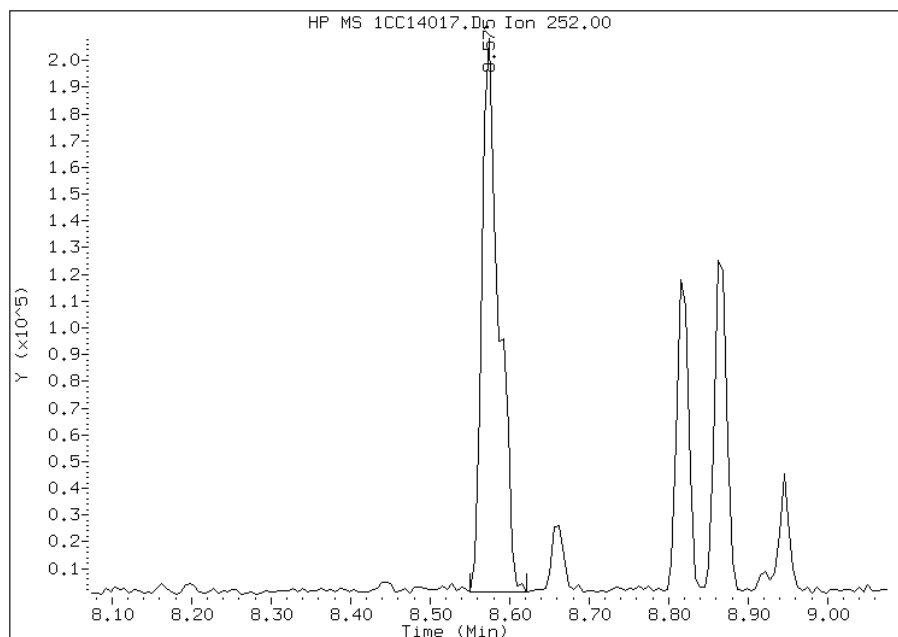


Manual Integration Report

Data File: 1CC14017.D
Inj. Date and Time: 14-MAR-2013 15:52
Instrument ID: BSMC5973.i
Client ID: CV0399A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

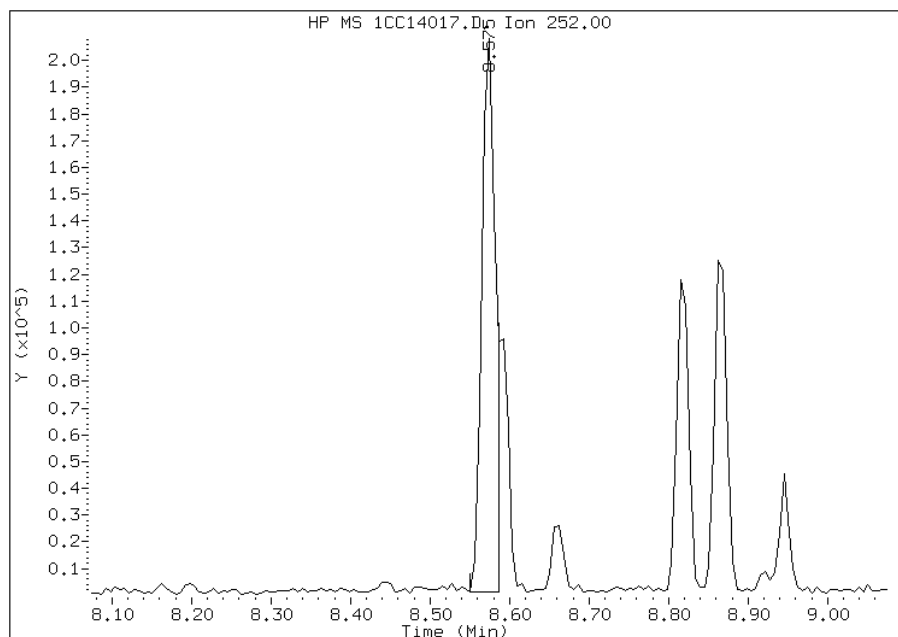
Processing Integration Results

RT: 8.57
Response: 309513
Amount: 8
Conc: 668



Manual Integration Results

RT: 8.57
Response: 246786
Amount: 6
Conc: 533



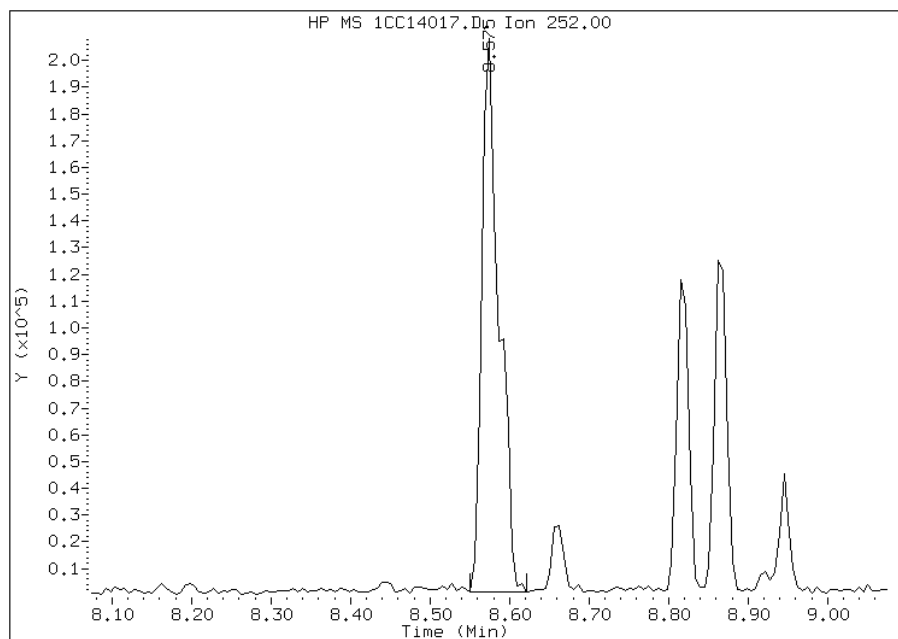
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14017.D
Inj. Date and Time: 14-MAR-2013 15:52
Instrument ID: BSMC5973.i
Client ID: CV0399A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

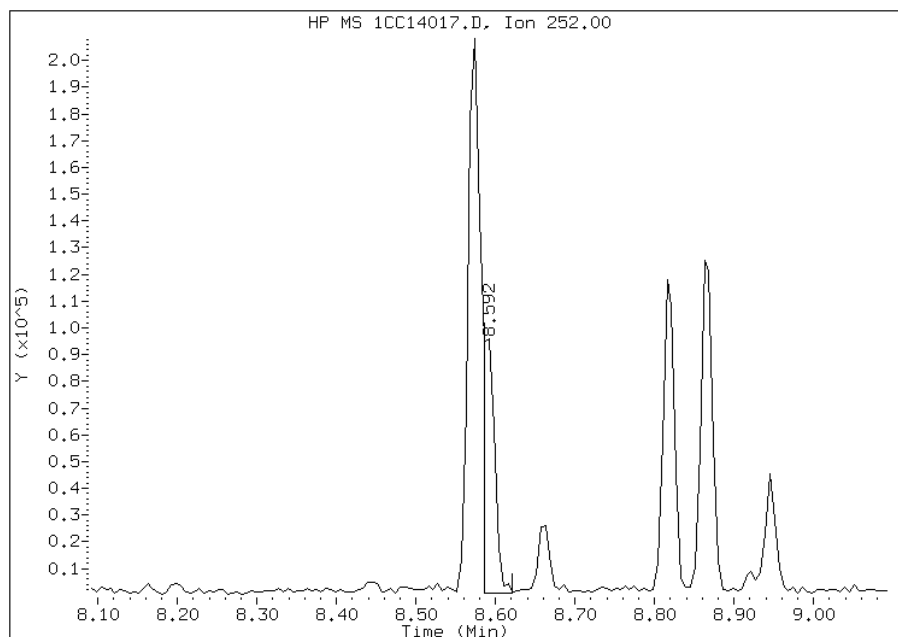
Processing Integration Results

RT: 8.57
Response: 309293
Amount: 8
Conc: 651



Manual Integration Results

RT: 8.59
Response: 96806
Amount: 2
Conc: 204



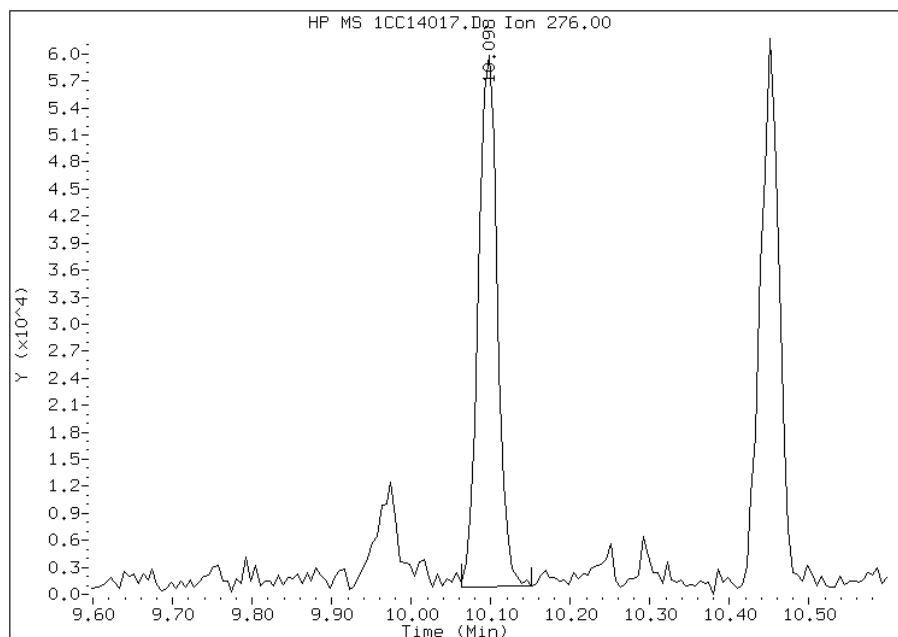
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14017.D
Inj. Date and Time: 14-MAR-2013 15:52
Instrument ID: BSMC5973.i
Client ID: CV0399A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

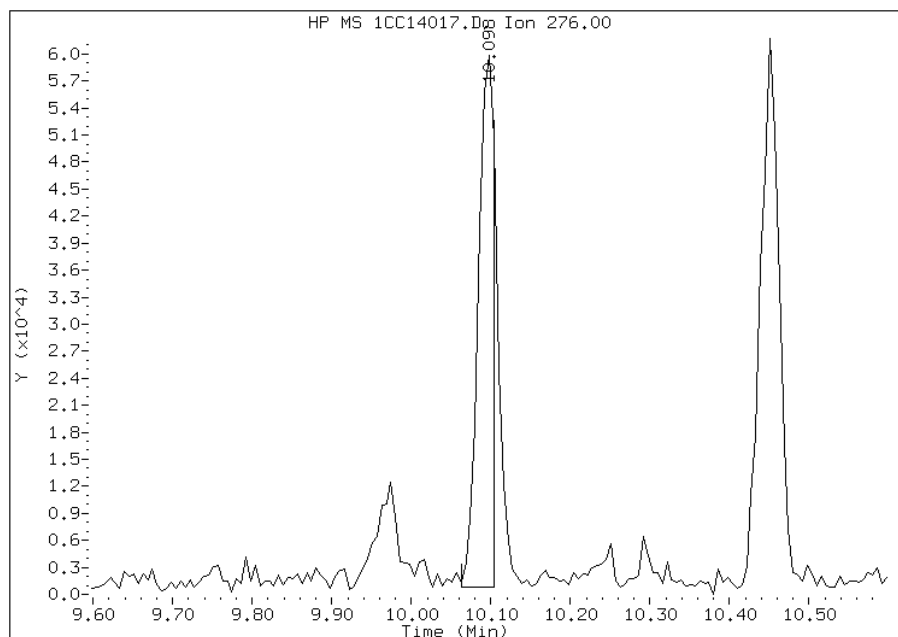
Processing Integration Results

RT: 10.10
Response: 97580
Amount: 3
Conc: 230



Manual Integration Results

RT: 10.10
Response: 81874
Amount: 2
Conc: 193



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0399B-CS-SP Lab Sample ID: 680-88067-22
 Matrix: Solid Lab File ID: 1CC14020.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 10:48
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.27(g) Date Analyzed: 03/14/2013 16:47
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 29.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	98	J	220	28
120-12-7	Anthracene	220		47	23
56-55-3	Benzo[a]anthracene	1100		44	22
50-32-8	Benzo[a]pyrene	1000		58	29
205-99-2	Benzo[b]fluoranthene	1700		68	34
191-24-2	Benzo[g,h,i]perylene	650		110	24
207-08-9	Benzo[k]fluoranthene	620		44	20
218-01-9	Chrysene	1200		50	25
53-70-3	Dibenz(a,h)anthracene	220		110	23
206-44-0	Fluoranthene	2100		110	22
86-73-7	Fluorene	100	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	650		110	39
90-12-0	1-Methylnaphthalene	110	J	220	24
91-57-6	2-Methylnaphthalene	130	J	220	39
91-20-3	Naphthalene	140	J	220	24
85-01-8	Phenanthrene	1100		44	22
129-00-0	Pyrene	2000		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14020.D
 Lab Smp Id: 680-88067-A-22-A Client Smp ID: CV0399B-CS-SP
 Inj Date : 14-MAR-2013 16:47
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-22-a
 Misc Info : 680-88067-A-22-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 20
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	Weight Extracted
M	29.257	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	994724	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	806933	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1490744	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.044)	32936	1.46332	541.8446	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1574404	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1479610	40.0000		
2 Naphthalene	128		3.769	3.768	(1.005)	9940	0.38384	142.1286	
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	6151	0.35608	131.8519	
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	4739	0.30122	111.5380	
5 Acenaphthylene	152		4.751	4.751	(0.982)	8626	0.26515	98.1793	
9 Fluorene	166		5.180	5.180	(1.070)	6945	0.27157	100.5591	
11 Phenanthrene	178		5.804	5.804	(1.003)	130798	3.03435	1123.5723	
12 Anthracene	178		5.839	5.839	(1.009)	24689	0.58564	216.8539	
13 Carbazole	167		5.945	5.945	(1.027)	19903	0.53110	196.6594	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.147)	265696	5.62844	2084.1209
16 Pyrene	202	6.810	6.809	(0.881)	228057	5.39016	1995.8915
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	139533	3.07069	1137.0257
19 Chrysene	228	7.751	7.751	(1.002)	144086	3.16850	1173.2459
20 Benzo(b)fluoranthene	252	8.568	8.574	(0.960)	178049	4.60459	1705.0065(M)
21 Benzo(k)fluoranthene	252	8.586	8.598	(0.962)	66091	1.66614	616.9460(M)
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	105721	2.81480	1042.2743
24 Indeno(1,2,3-cd)pyrene	276	10.098	10.097	(1.132)	61889	1.75162	648.5976(M)
25 Dibenzo(a,h)anthracene	278	10.104	10.121	(1.133)	20331	0.58828	217.8308(MH)
26 Benzo(g,h,i)perylene	276	10.445	10.456	(1.171)	64916	1.75635	650.3498

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1CC14020.D

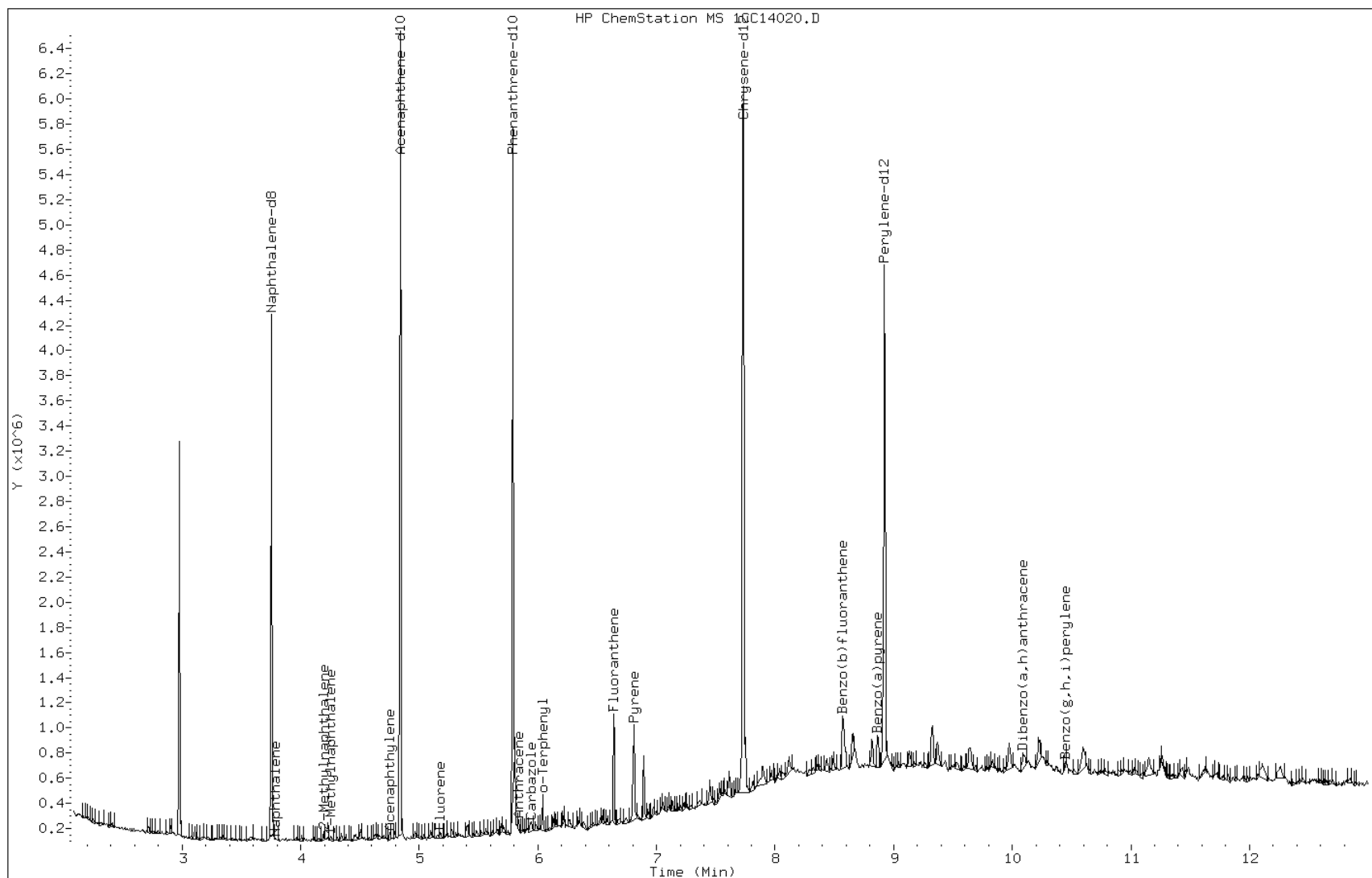
Date: 14-MAR-2013 16:47

Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

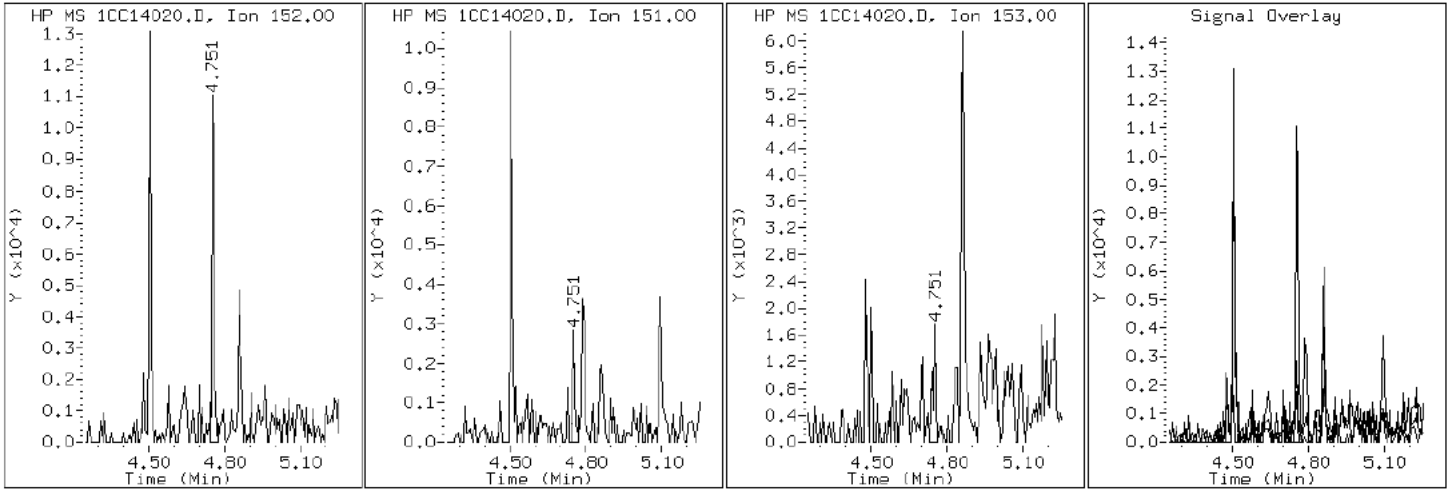
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

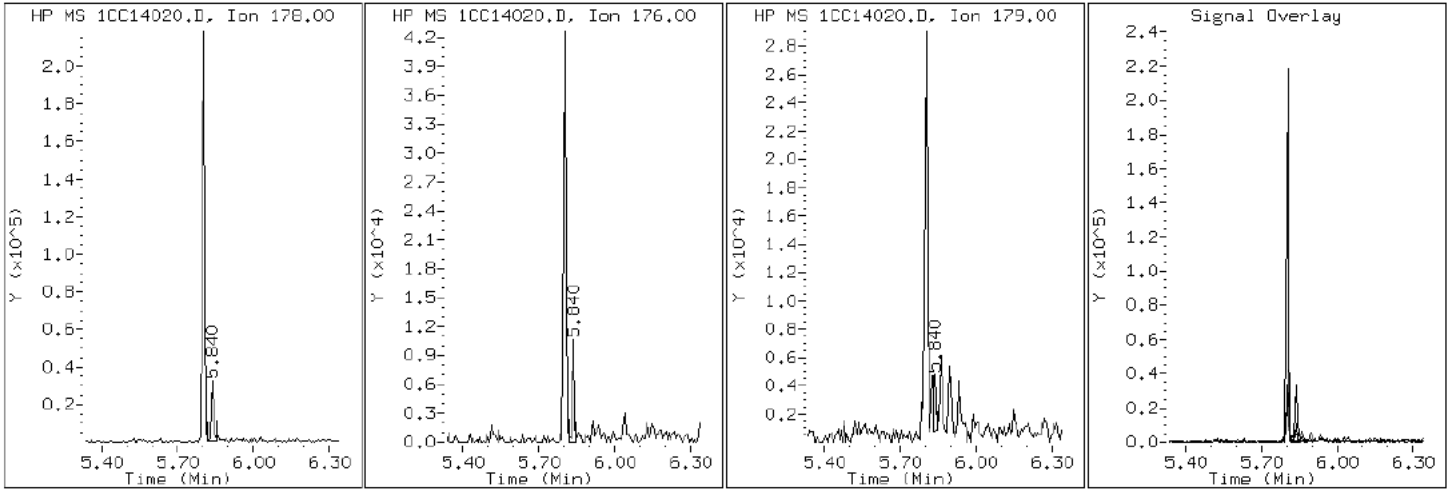
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

12 Anthracene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

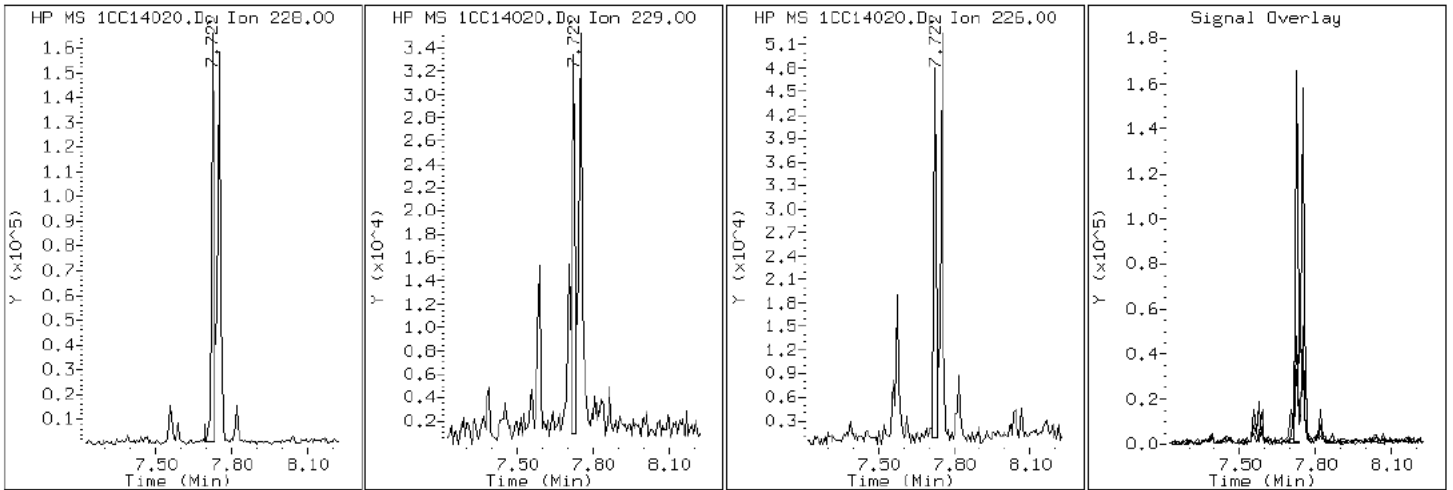
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

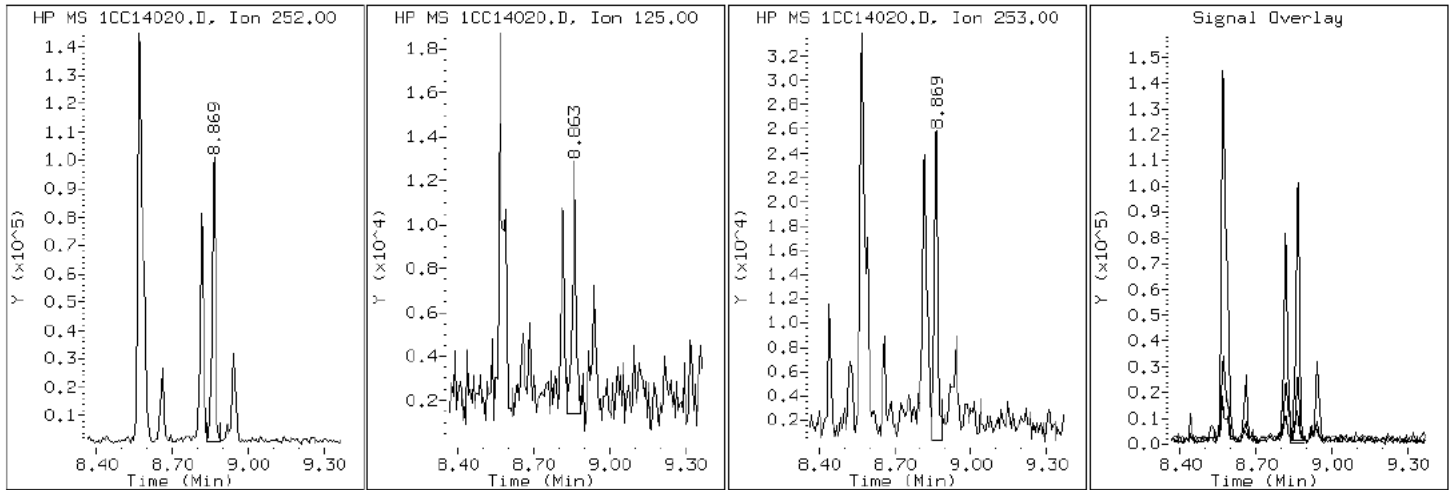
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

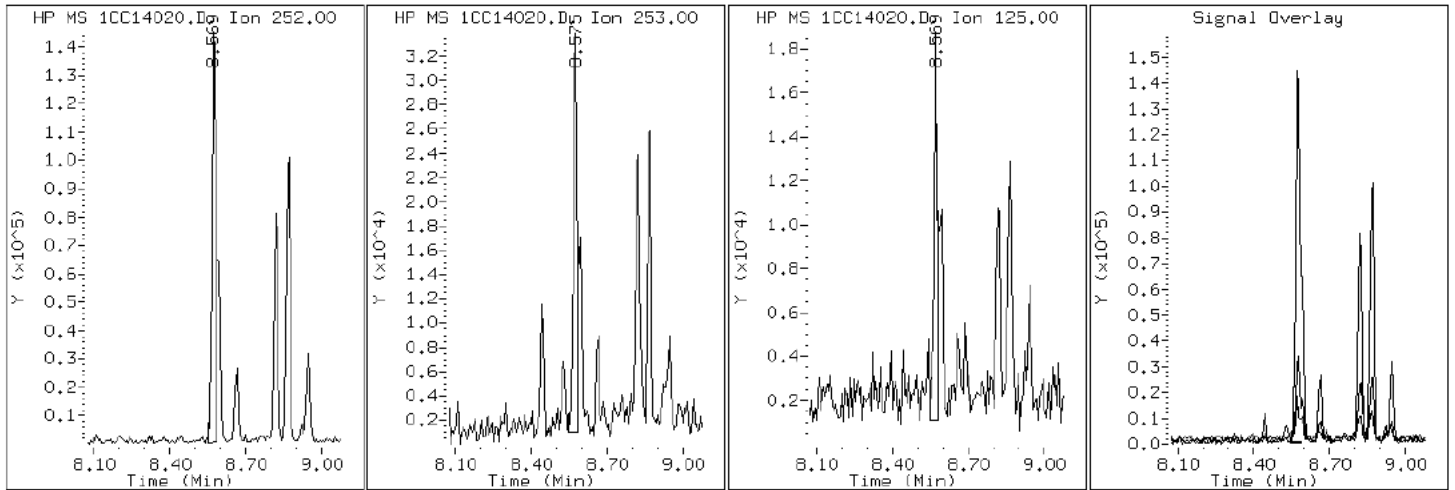
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

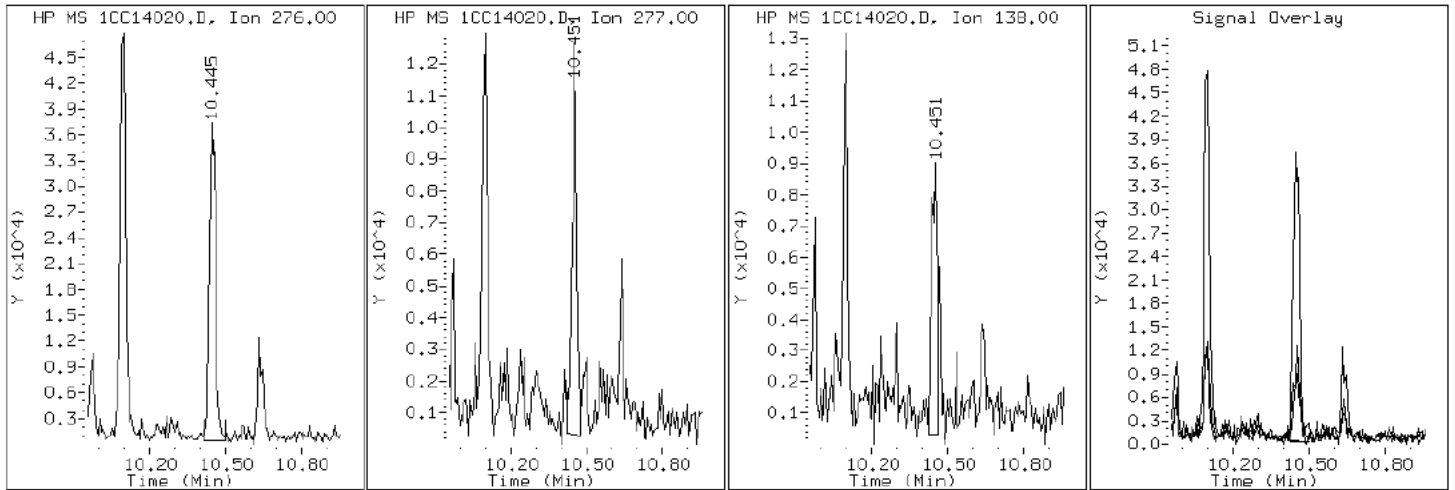
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

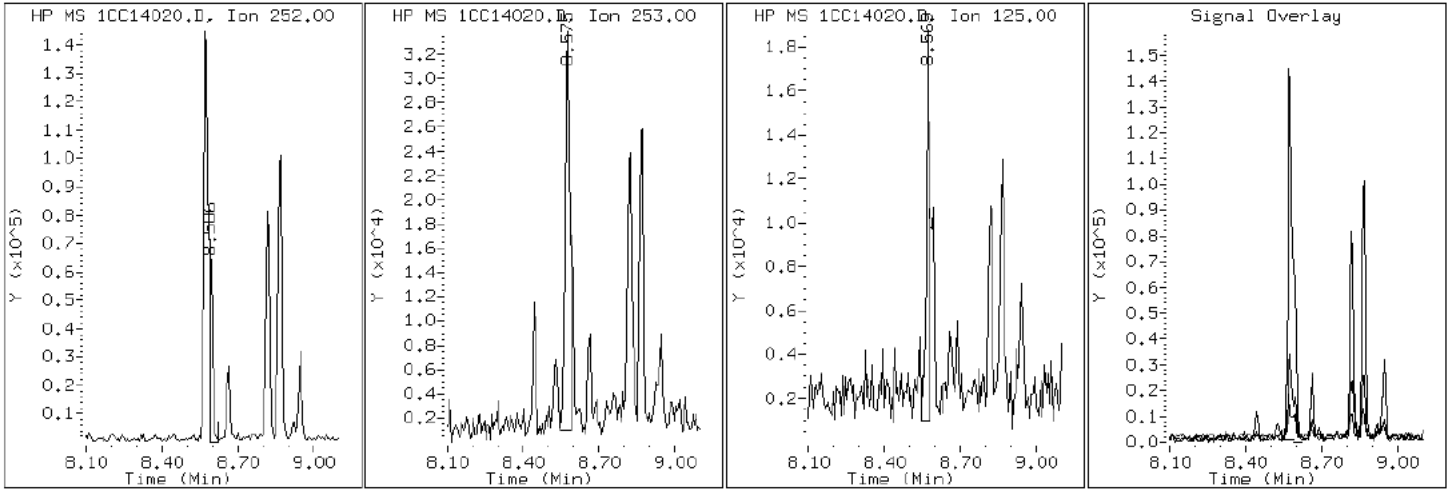
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

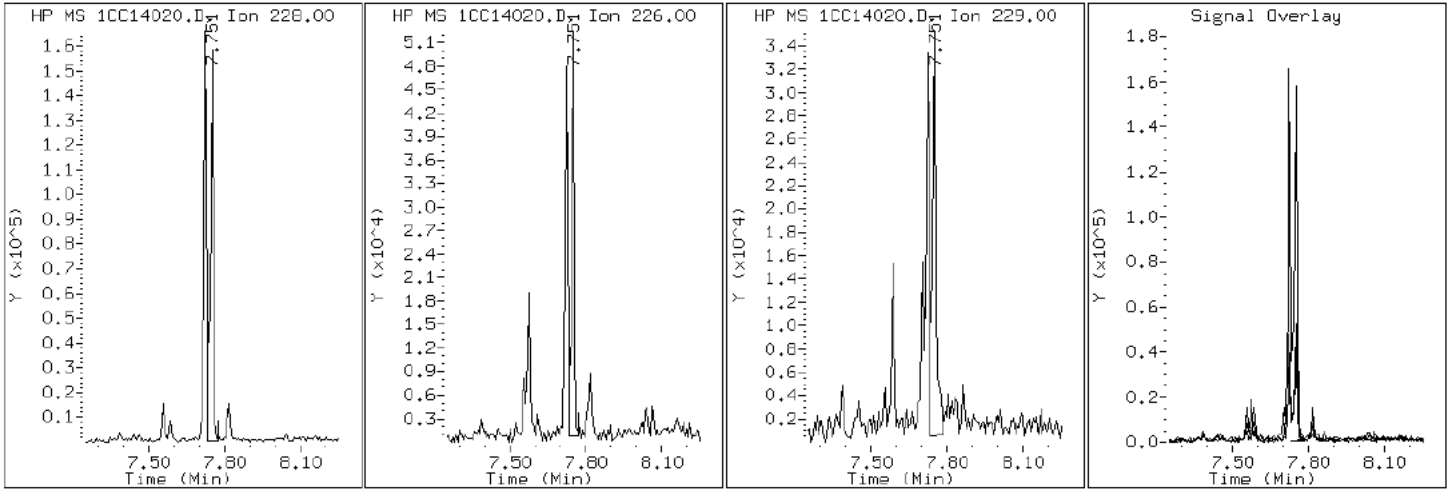
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

19 Chrysene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

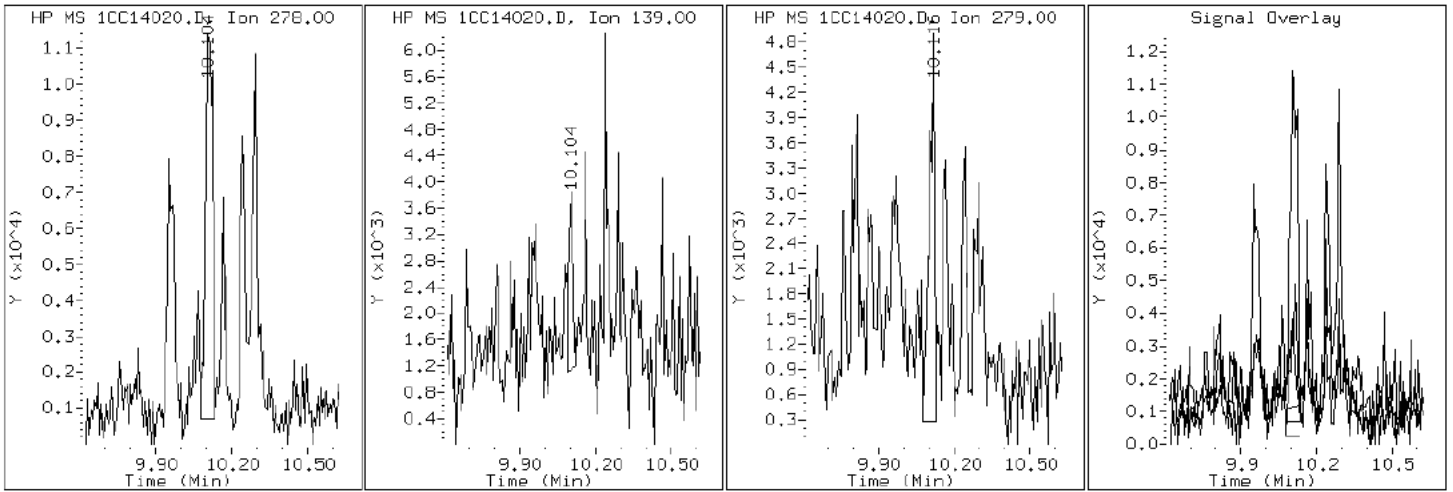
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

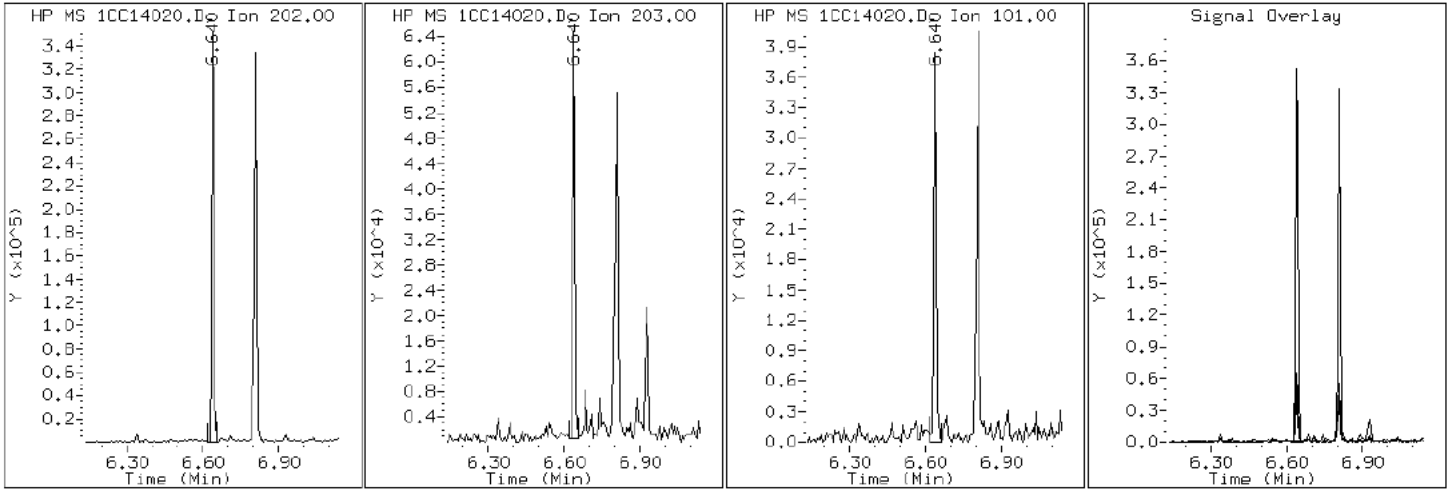
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

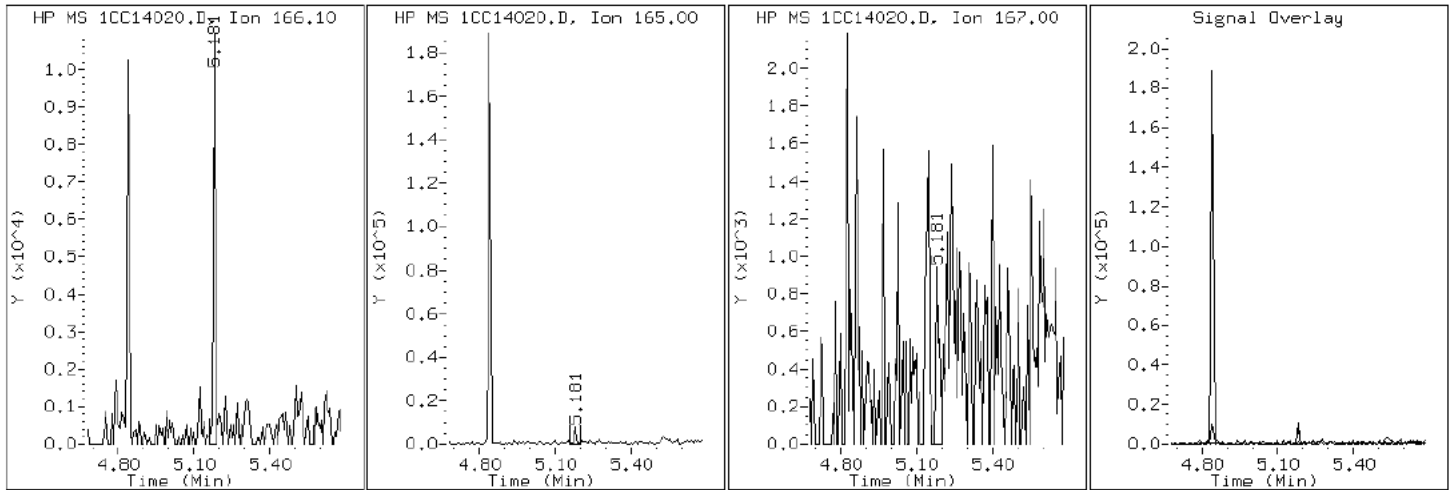
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

9 Fluorene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

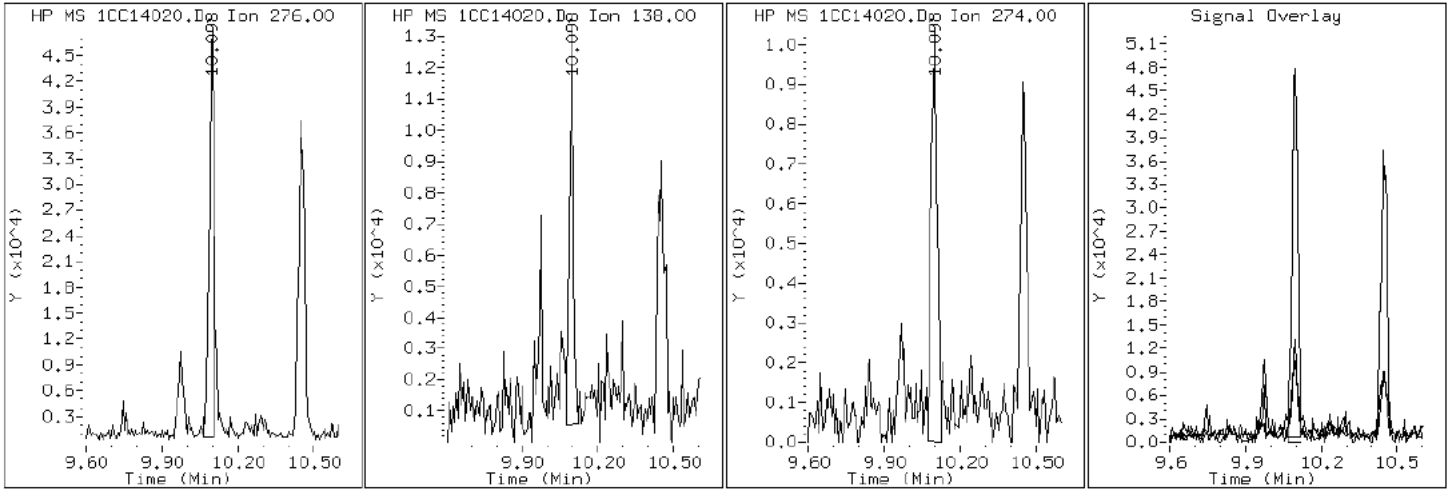
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

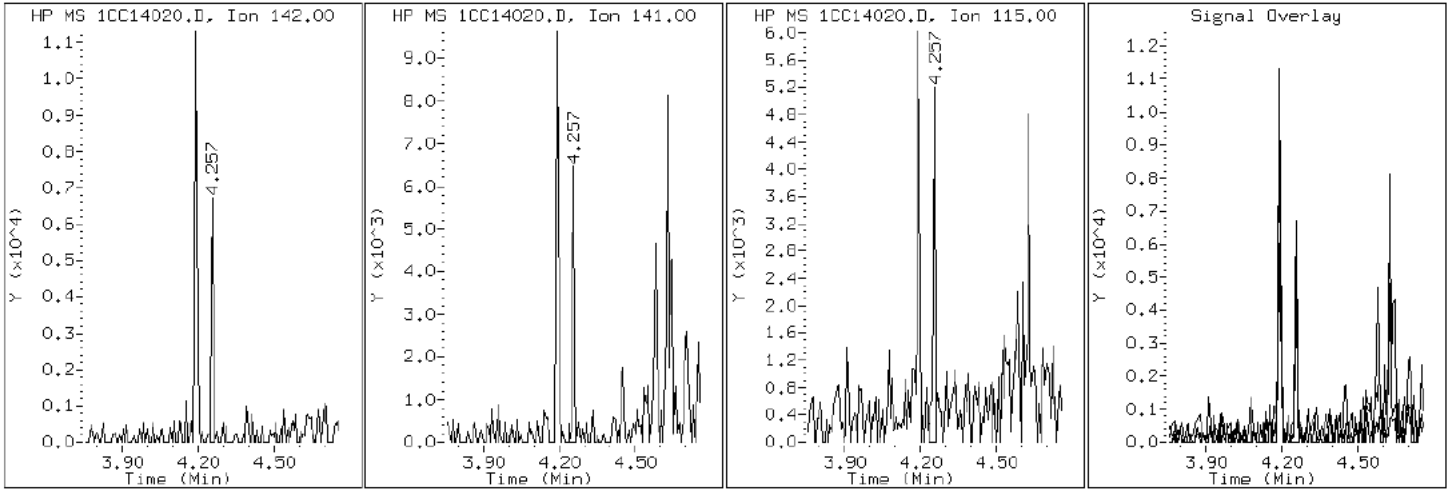
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

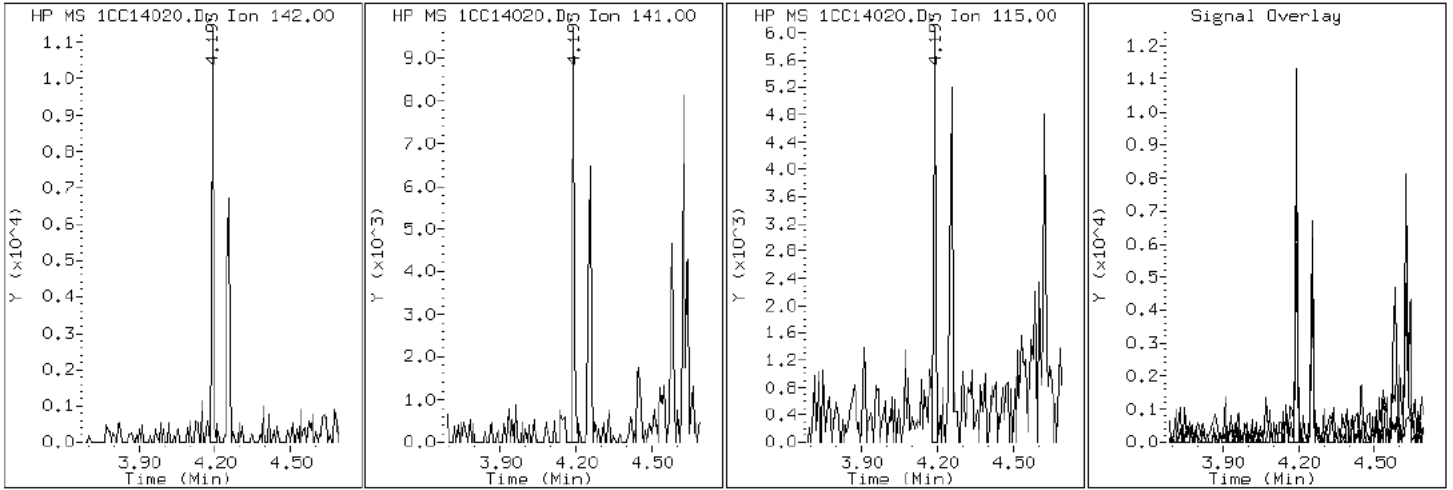
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

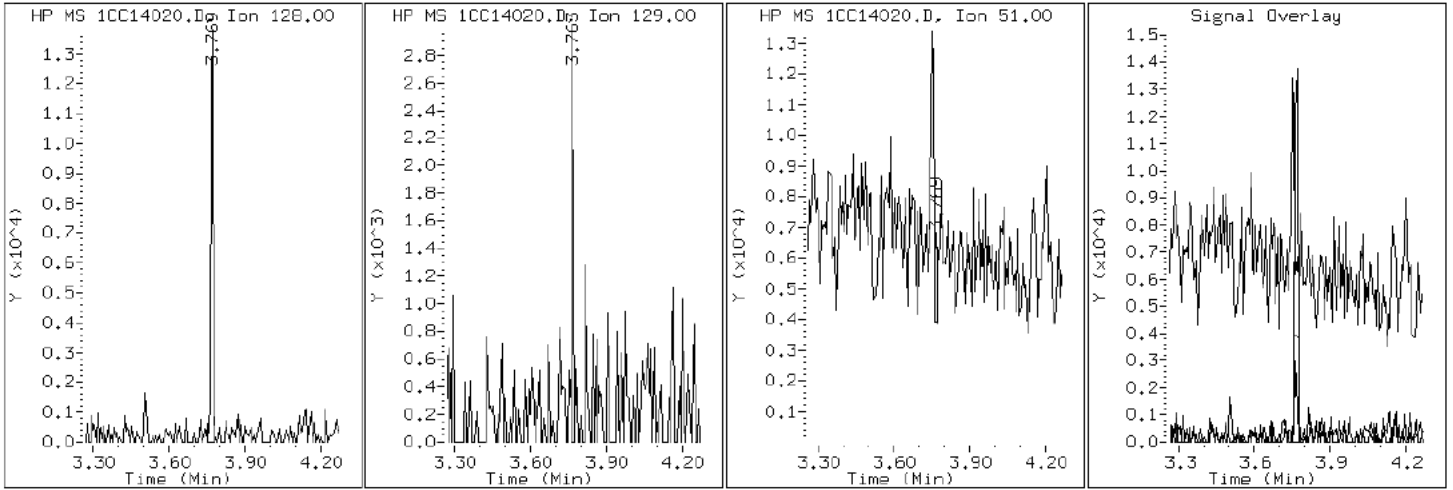
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

2 Naphthalene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

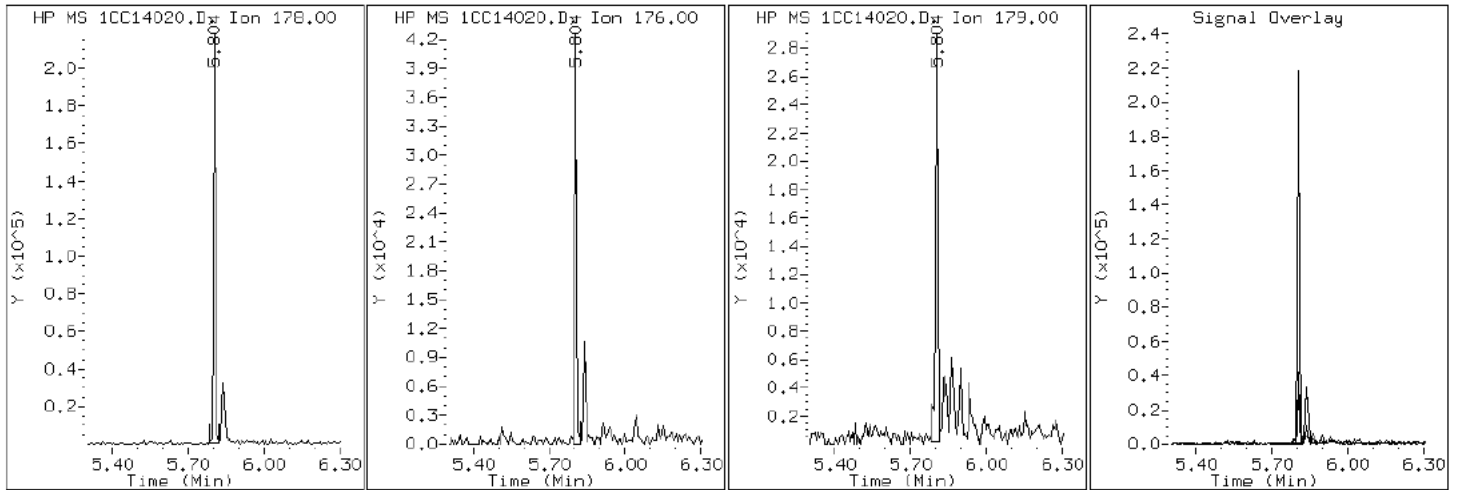
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14020.D

Date: 14-MAR-2013 16:47

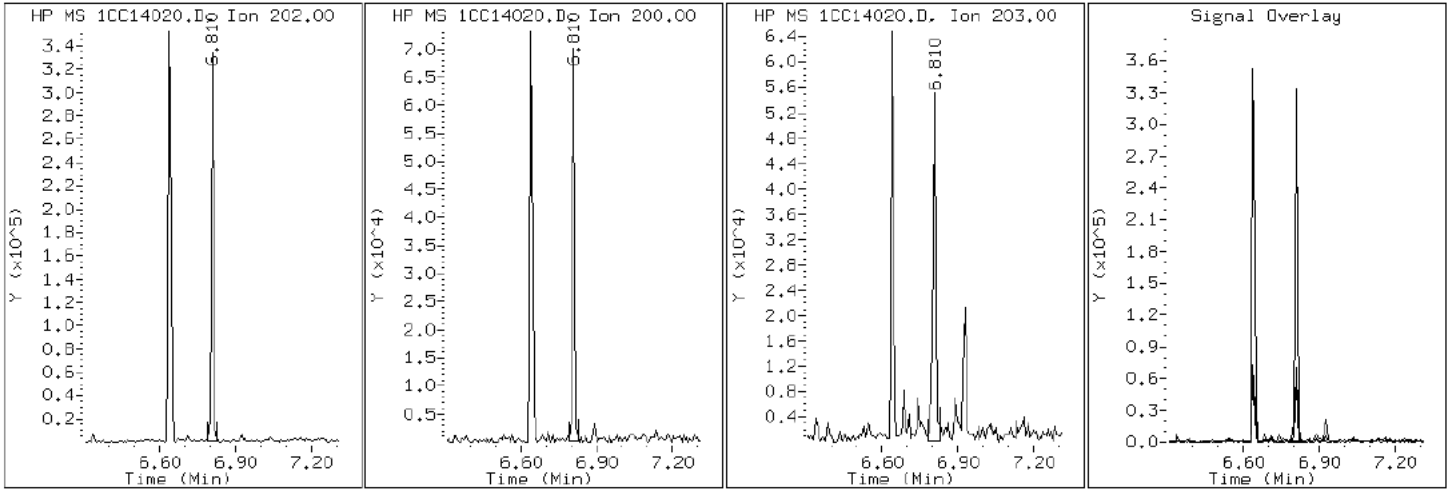
Client ID: CV0399B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-22-a

Operator: SCC

16 Pyrene

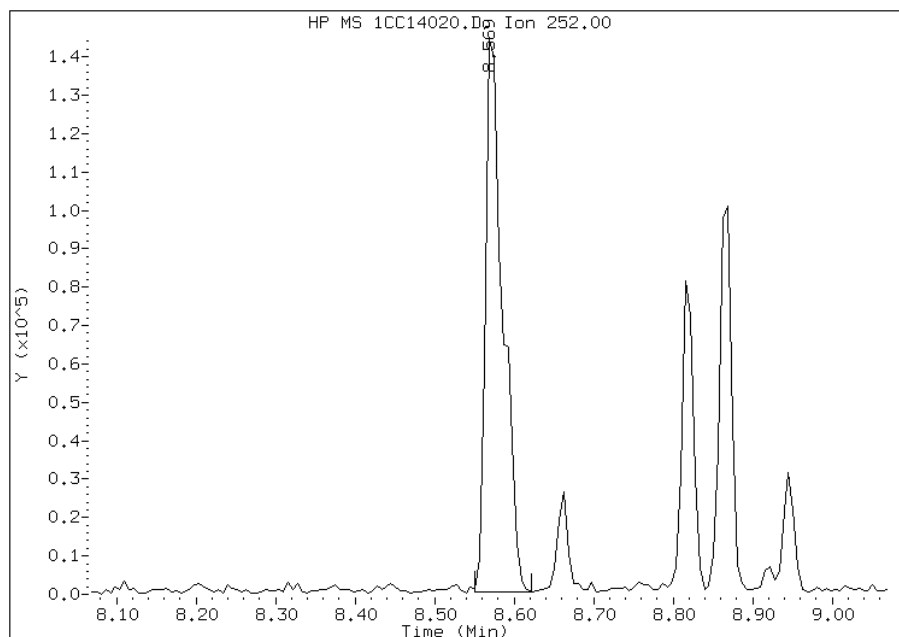


Manual Integration Report

Data File: 1CC14020.D
Inj. Date and Time: 14-MAR-2013 16:47
Instrument ID: BSMC5973.i
Client ID: CV0399B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

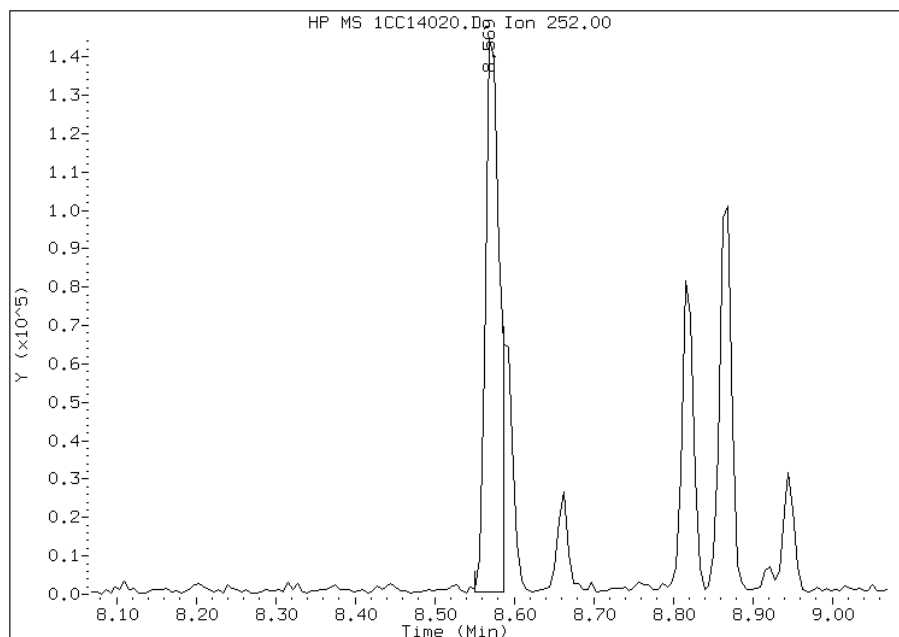
Processing Integration Results

RT: 8.57
Response: 219941
Amount: 6
Conc: 2106



Manual Integration Results

RT: 8.57
Response: 178049
Amount: 5
Conc: 1705



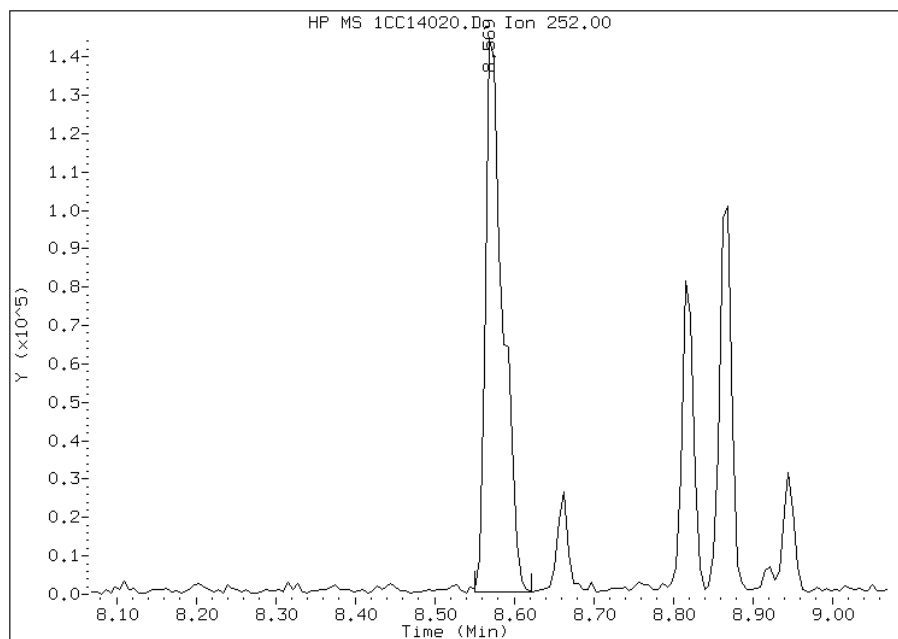
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14020.D
Inj. Date and Time: 14-MAR-2013 16:47
Instrument ID: BSMC5973.i
Client ID: CV0399B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

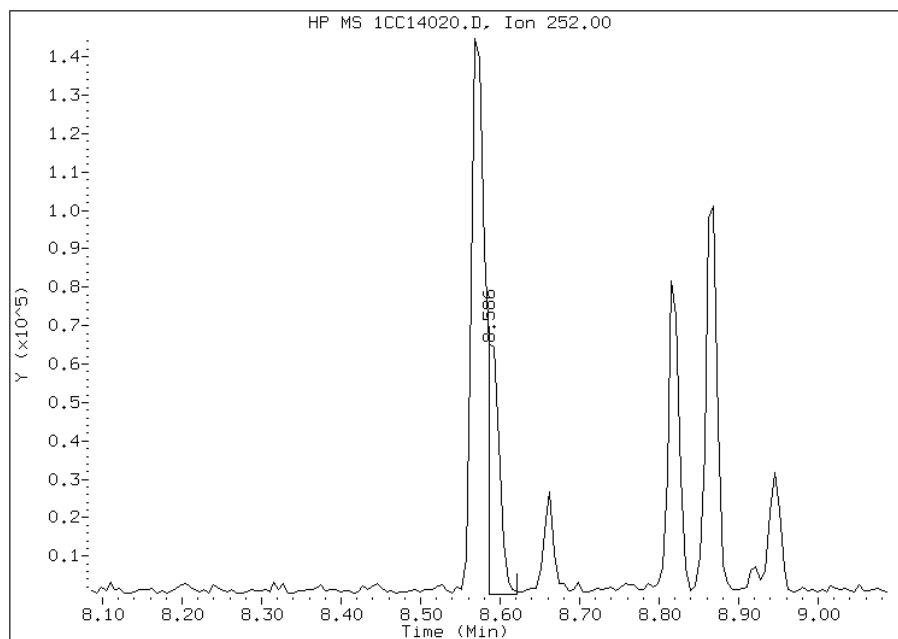
Processing Integration Results

RT: 8.57
Response: 219854
Amount: 6
Conc: 2052



Manual Integration Results

RT: 8.59
Response: 66091
Amount: 2
Conc: 617



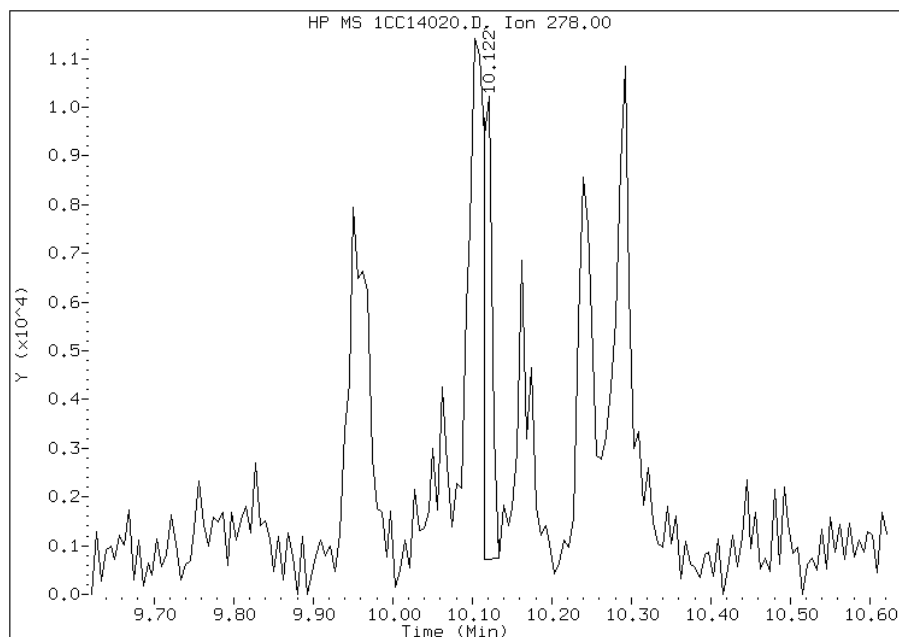
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14020.D
Inj. Date and Time: 14-MAR-2013 16:47
Instrument ID: BSMC5973.i
Client ID: CV0399B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/18/2013

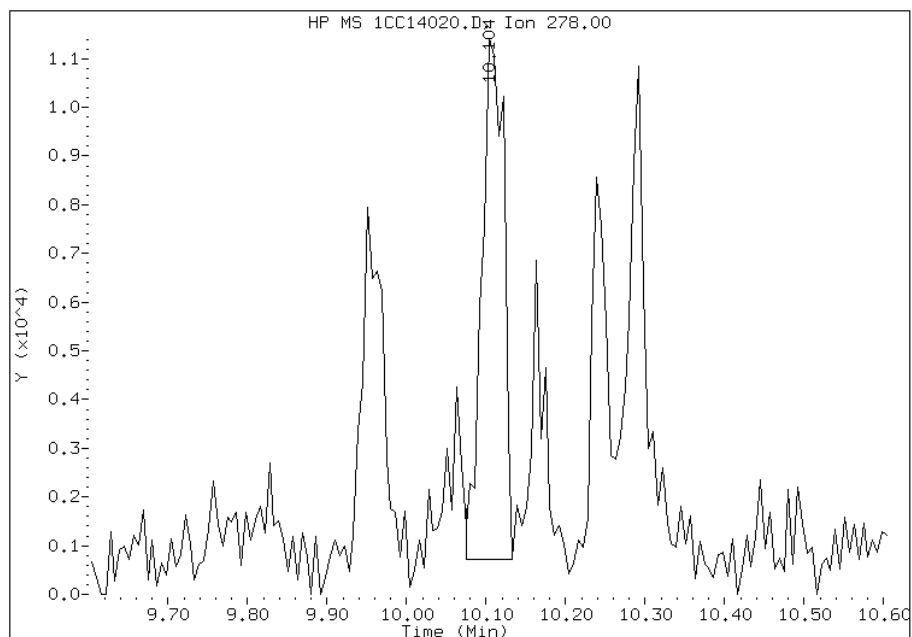
Processing Integration Results

RT: 10.12
Response: 7327
Amount: 0
Conc: 79



Manual Integration Results

RT: 10.10
Response: 20331
Amount: 1
Conc: 218



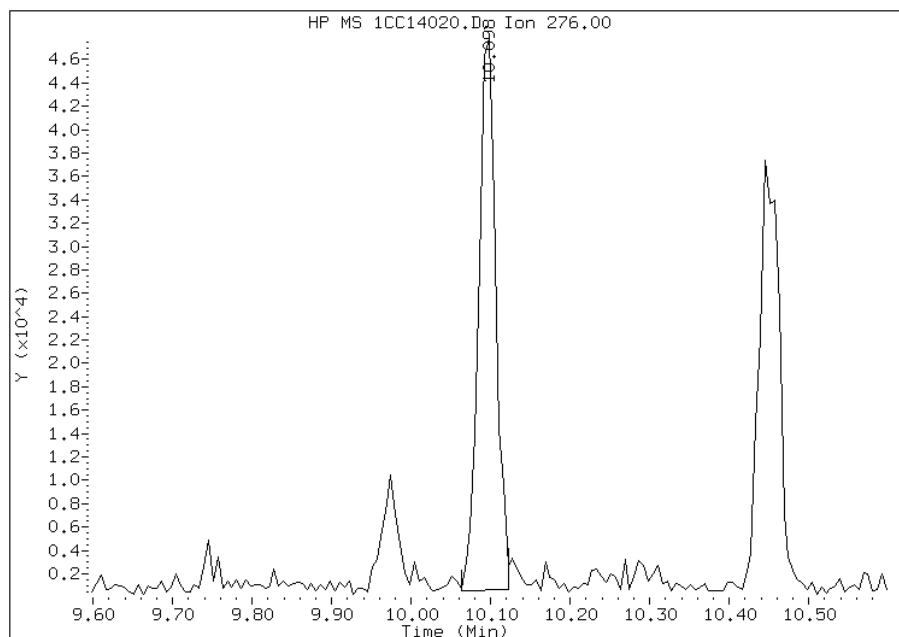
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14020.D
Inj. Date and Time: 14-MAR-2013 16:47
Instrument ID: BSMC5973.i
Client ID: CV0399B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

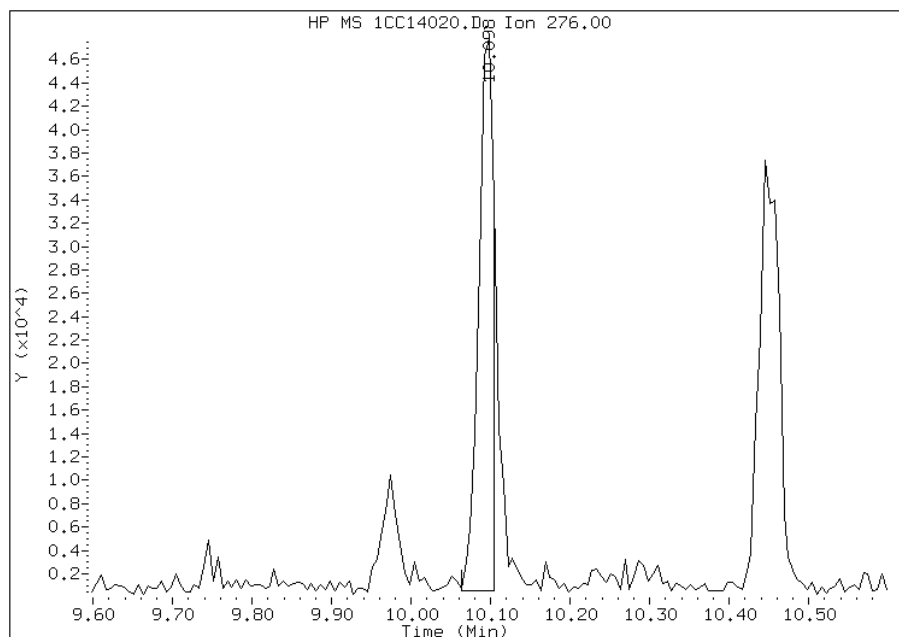
Processing Integration Results

RT: 10.10
Response: 70635
Amount: 2
Conc: 740



Manual Integration Results

RT: 10.10
Response: 61889
Amount: 2
Conc: 649



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0277A-CS-SP Lab Sample ID: 680-88067-23
 Matrix: Solid Lab File ID: 1CC14021.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 14:43
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 14.99(g) Date Analyzed: 03/14/2013 17:06
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 16.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	18	J	48	6.0
120-12-7	Anthracene	43		10	5.0
56-55-3	Benzo[a]anthracene	510		9.6	4.7
50-32-8	Benzo[a]pyrene	500		12	6.2
205-99-2	Benzo[b]fluoranthene	950		15	7.3
191-24-2	Benzo[g,h,i]perylene	370		24	5.3
207-08-9	Benzo[k]fluoranthene	430		9.6	4.3
218-01-9	Chrysene	770		11	5.4
53-70-3	Dibenz(a,h)anthracene	120		24	4.9
206-44-0	Fluoranthene	1000		24	4.8
86-73-7	Fluorene	17	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	370		24	8.5
90-12-0	1-Methylnaphthalene	77		48	5.3
91-57-6	2-Methylnaphthalene	96		48	8.5
91-20-3	Naphthalene	82		48	5.3
85-01-8	Phenanthrene	290		9.6	4.7
129-00-0	Pyrene	910		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14021.D
 Lab Smp Id: 680-88067-A-23-A Client Smp ID: CV0277A-CS-SP
 Inj Date : 14-MAR-2013 17:06
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-23-a
 Misc Info : 680-88067-A-23-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	16.408	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	978752	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	787836	40.0000	
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1429124	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	136648	6.33294	505.4043
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1575051	40.0000	
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1487037	40.0000	
2 Naphthalene	128		3.769	3.768	(1.005)	26036	1.02180	81.5451
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	20392	1.19976	95.7478
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	14986	0.96809	77.2592
5 Acenaphthylene	152		4.757	4.751	(0.983)	7070	0.22259	17.7635
9 Fluorene	166		5.180	5.180	(1.070)	5382	0.21556	17.2025(Q)
11 Phenanthrene	178		5.804	5.804	(1.002)	151837	3.67431	293.2306
12 Anthracene	178		5.839	5.839	(1.008)	21739	0.53790	42.9274
13 Carbazole	167		5.945	5.945	(1.026)	23158	0.64461	51.4433

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.645	6.639	(1.147)	573448	12.6716	1011.2619
16 Pyrene	202	6.810	6.809	(0.881)	481081	11.3658	907.0513
17 Benzo(a)anthracene	228	7.727	7.721	(0.999)	290328	6.38659	509.6856
19 Chrysene	228	7.751	7.751	(1.002)	438429	9.63725	769.1068
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	464570	11.9544	954.0293
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	215662	5.40965	431.7203
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	235769	6.24594	498.4614
24 Indeno(1,2,3-cd)pyrene	276	10.098	10.097	(1.132)	163899	4.61561	368.3513(M)
25 Dibenzo(a,h)anthracene	278	10.115	10.121	(1.134)	51956	1.49585	119.3769
26 Benzo(g,h,i)perylene	276	10.451	10.456	(1.171)	174513	4.69801	374.9273

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Data File: 1CC14021.D

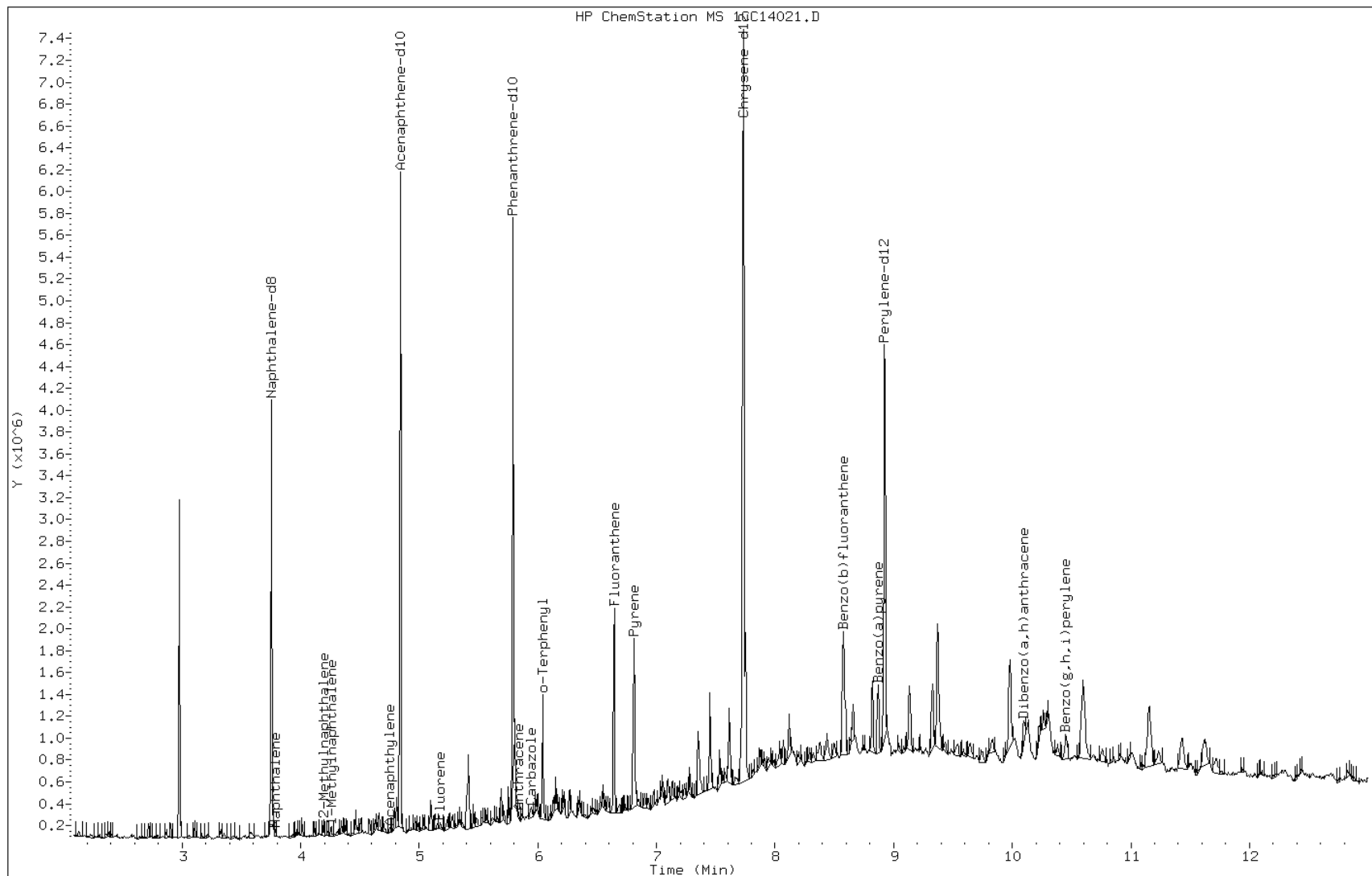
Date: 14-MAR-2013 17:06

Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

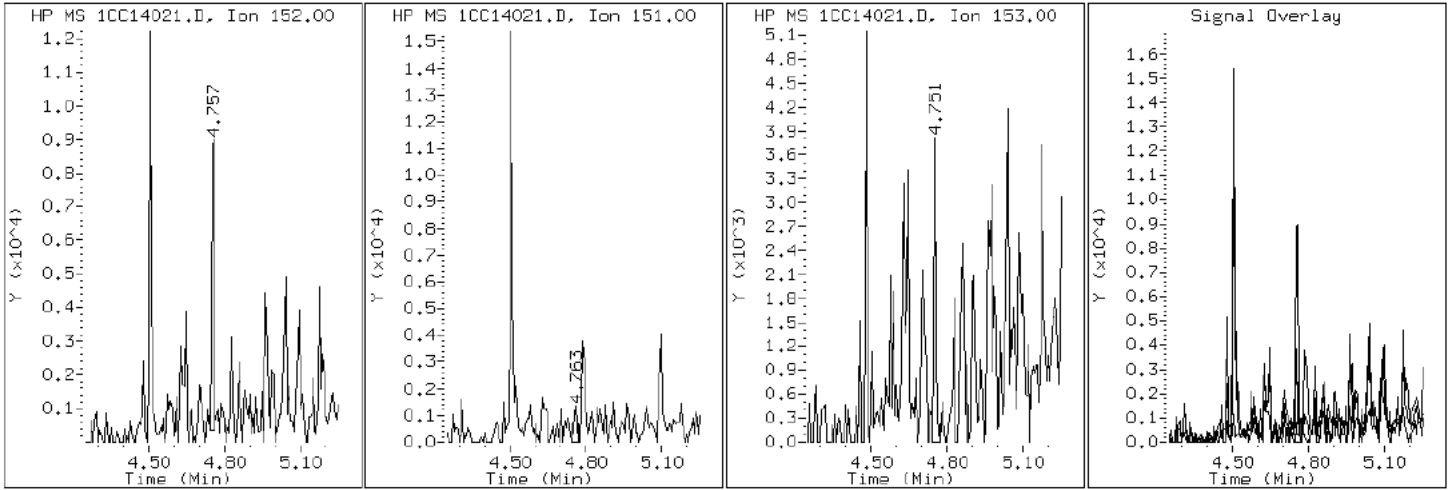
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

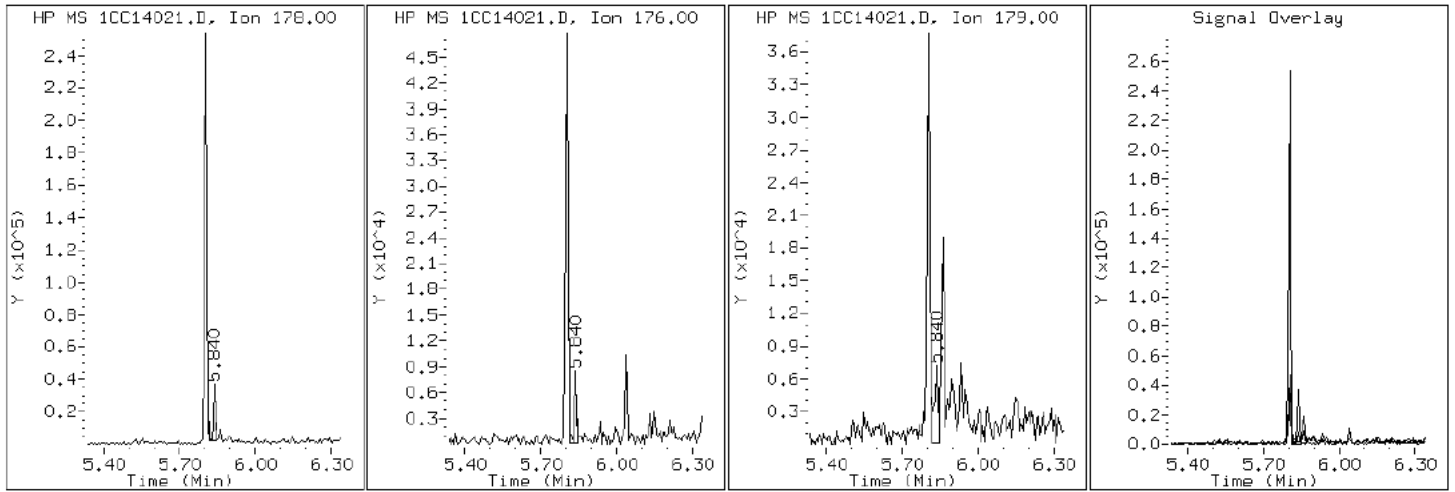
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

12 Anthracene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

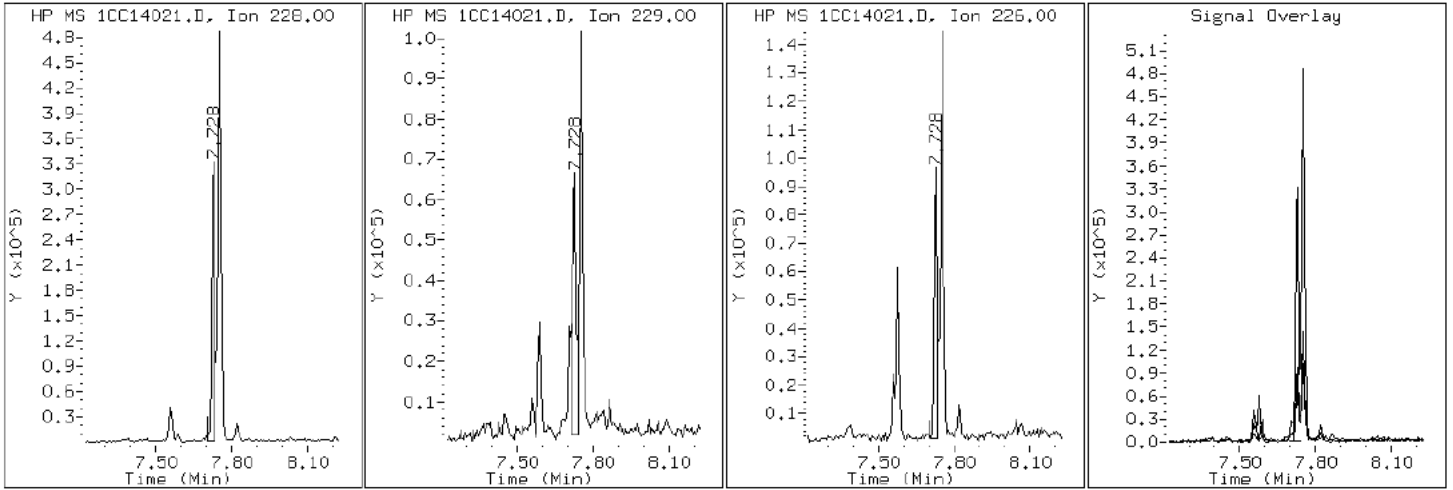
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

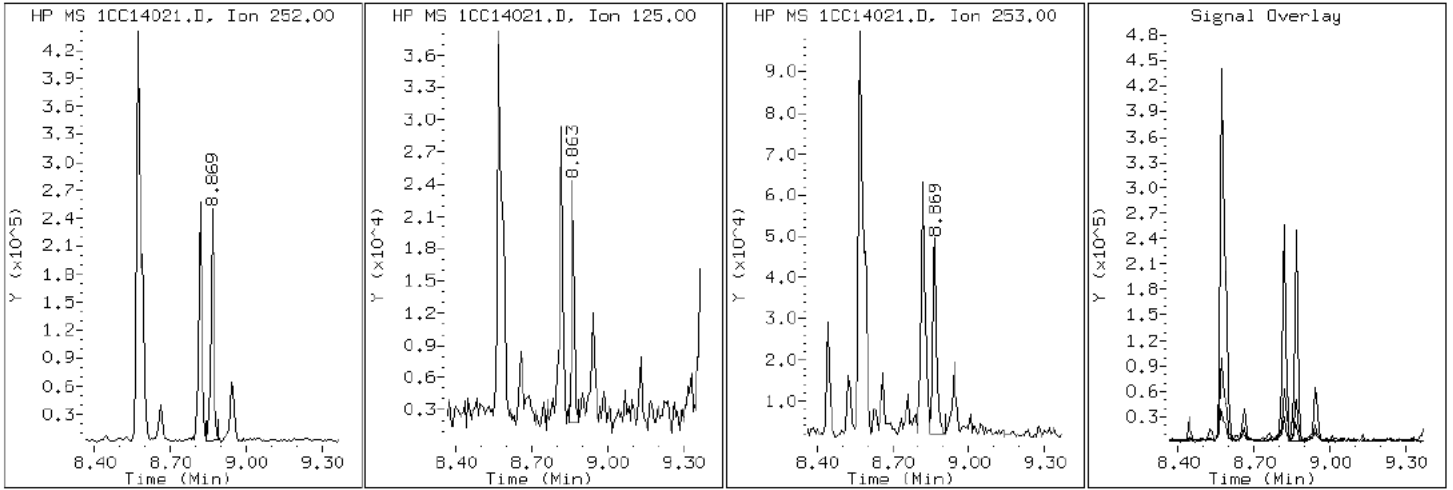
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

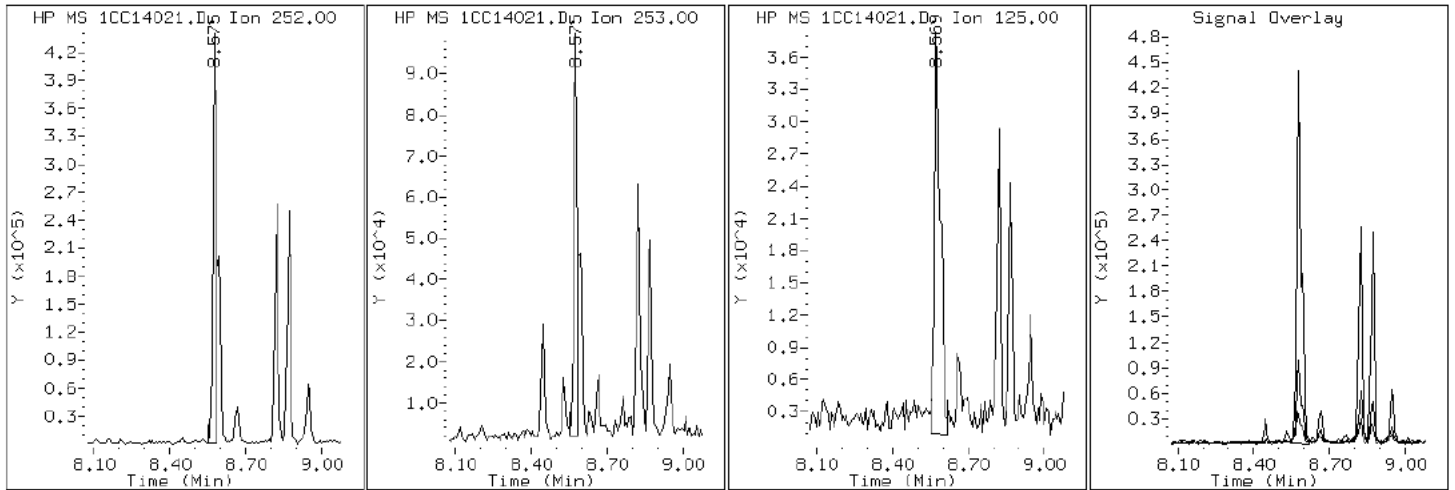
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

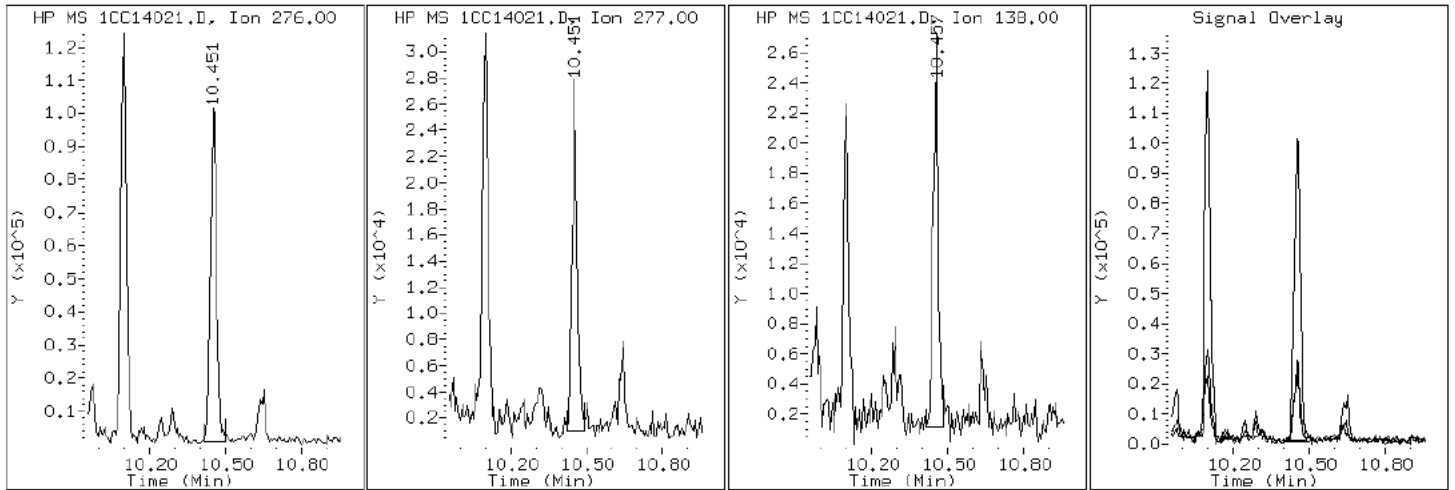
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

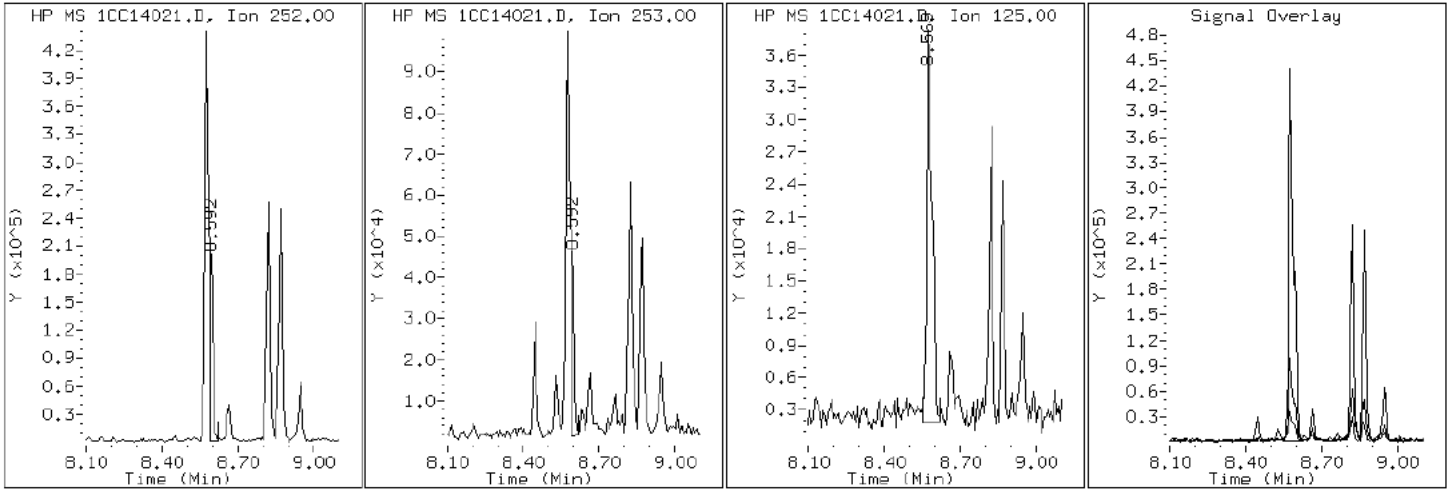
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

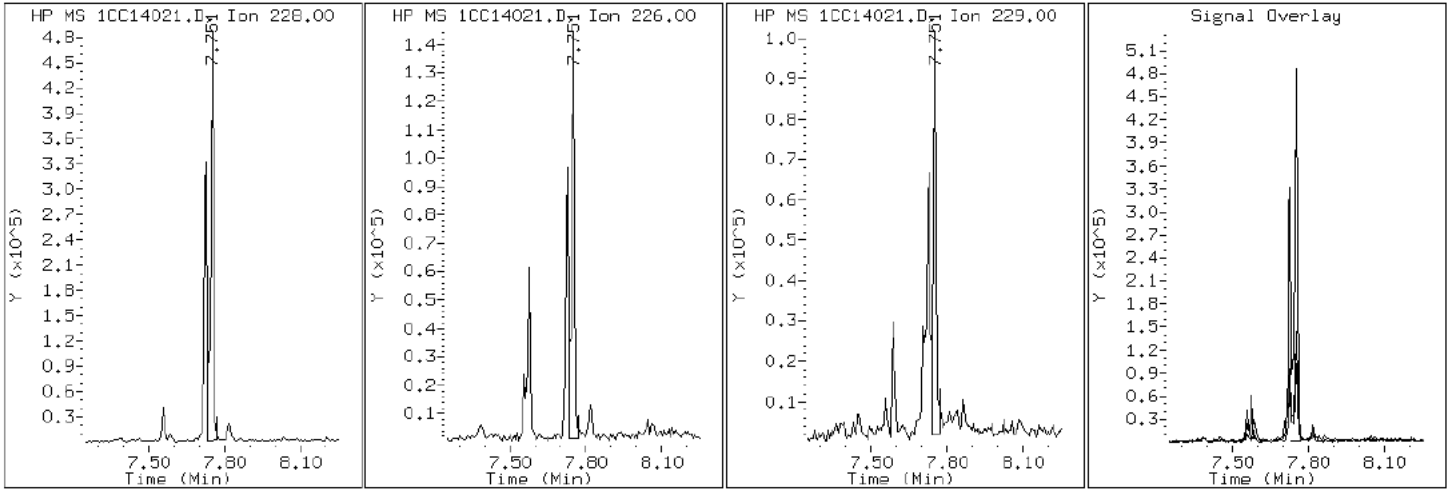
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

19 Chrysene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

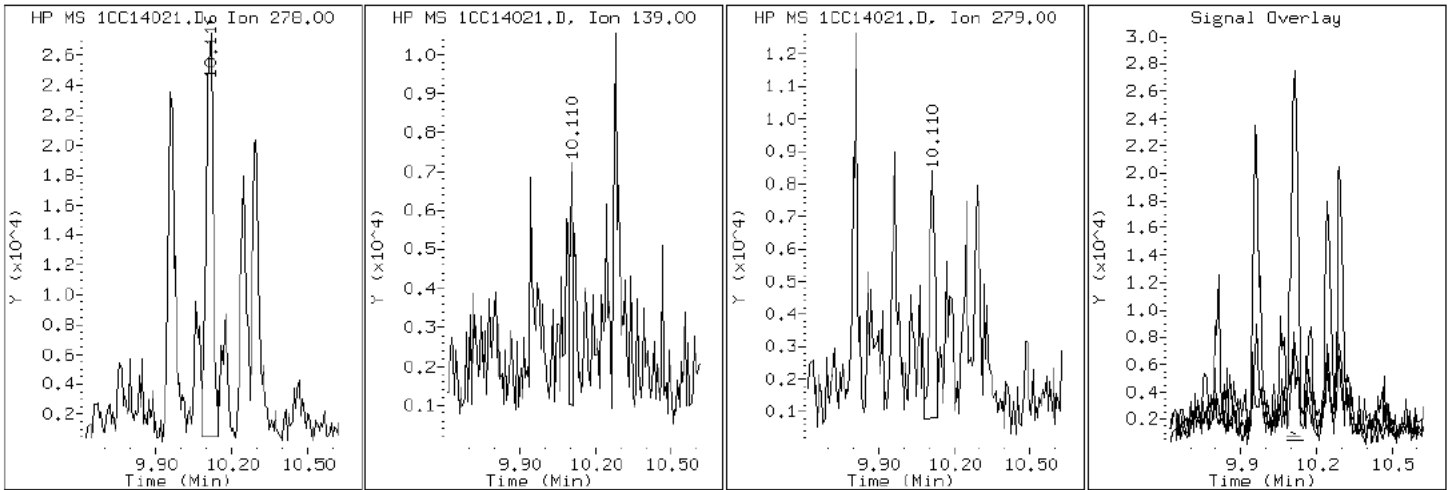
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

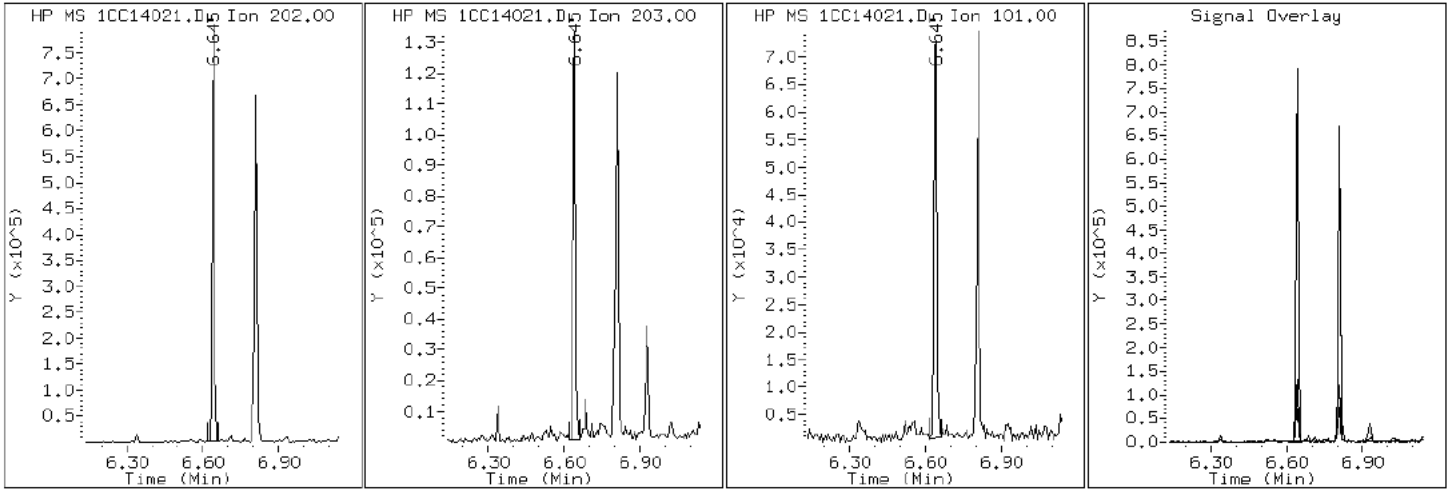
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

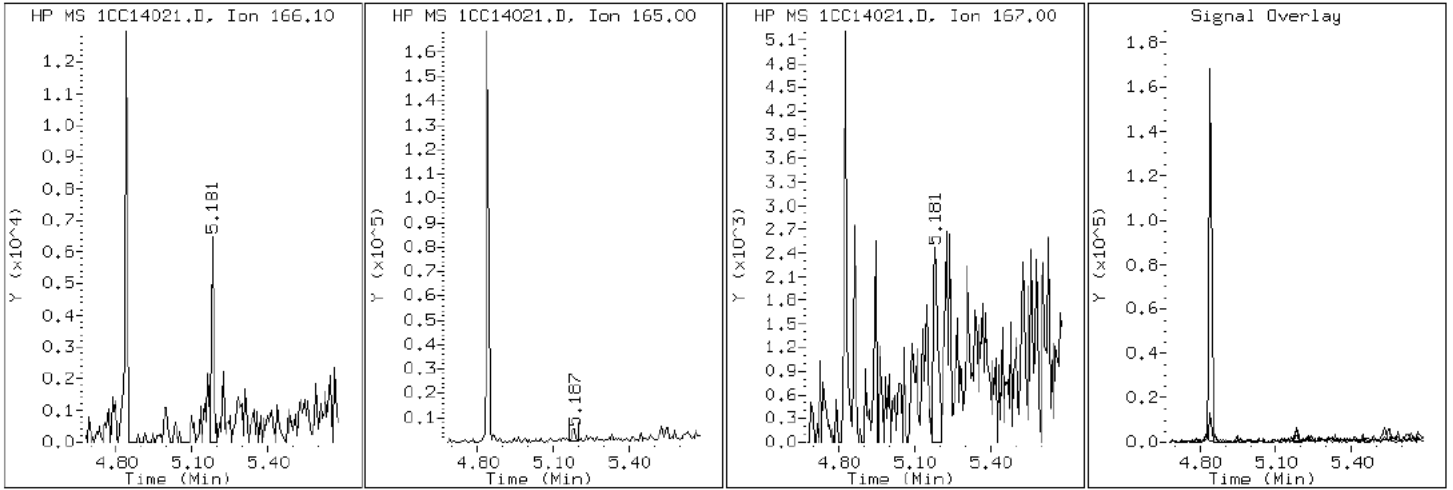
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

9 Fluorene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

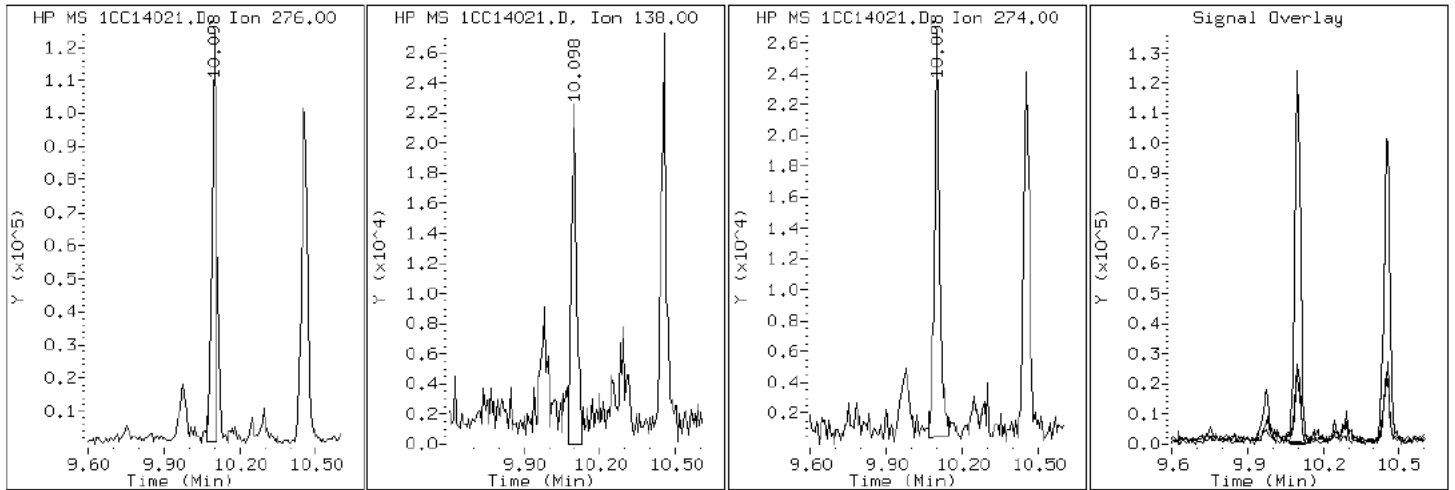
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

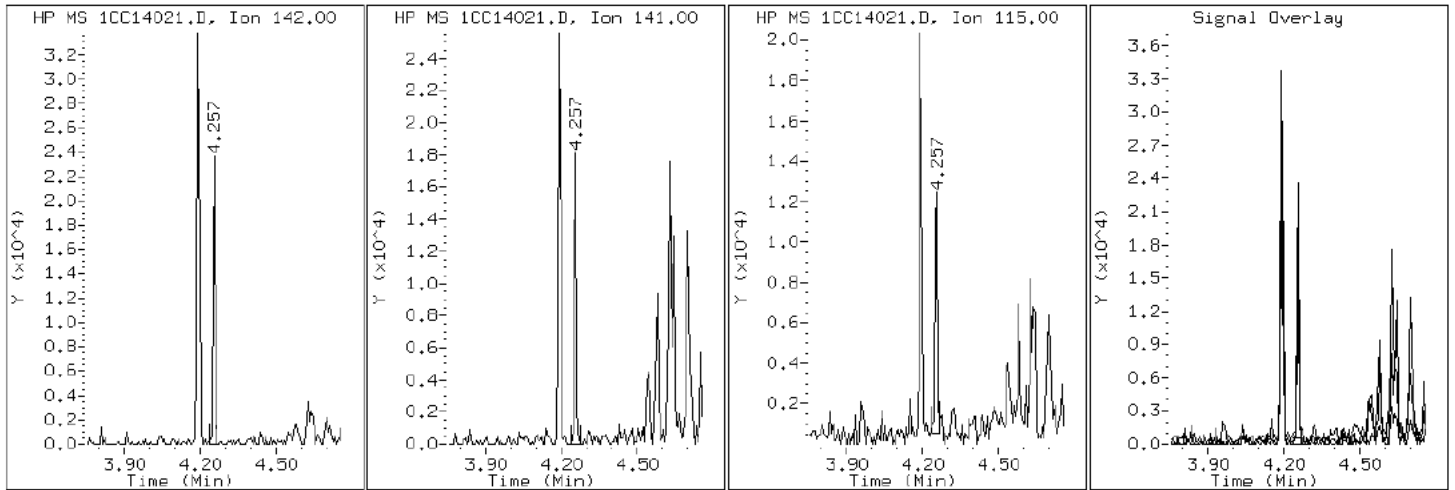
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

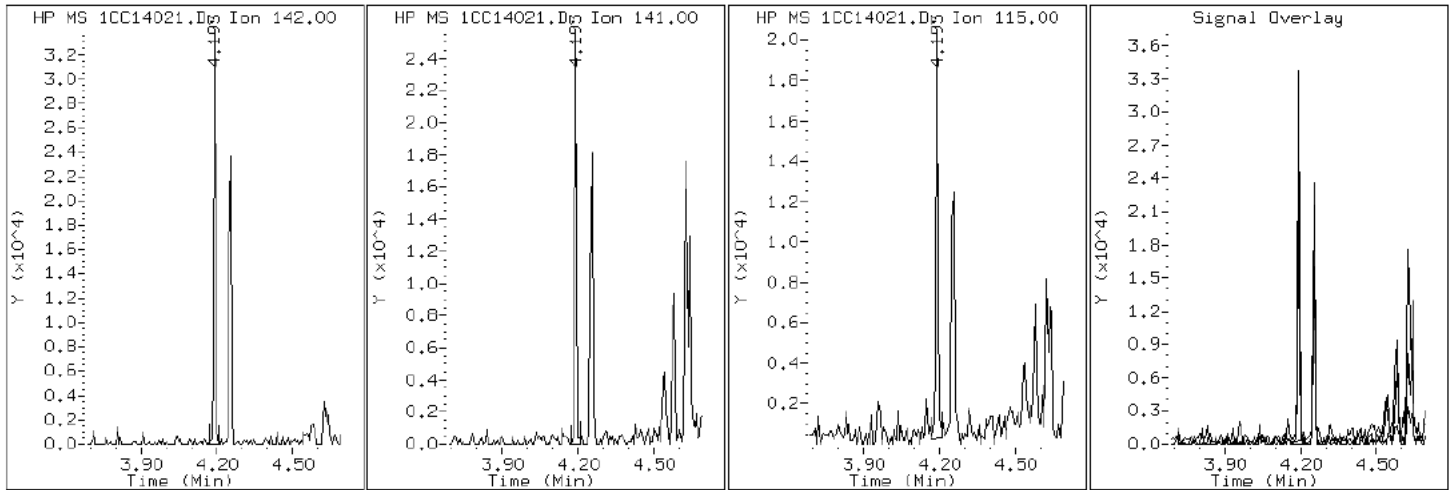
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

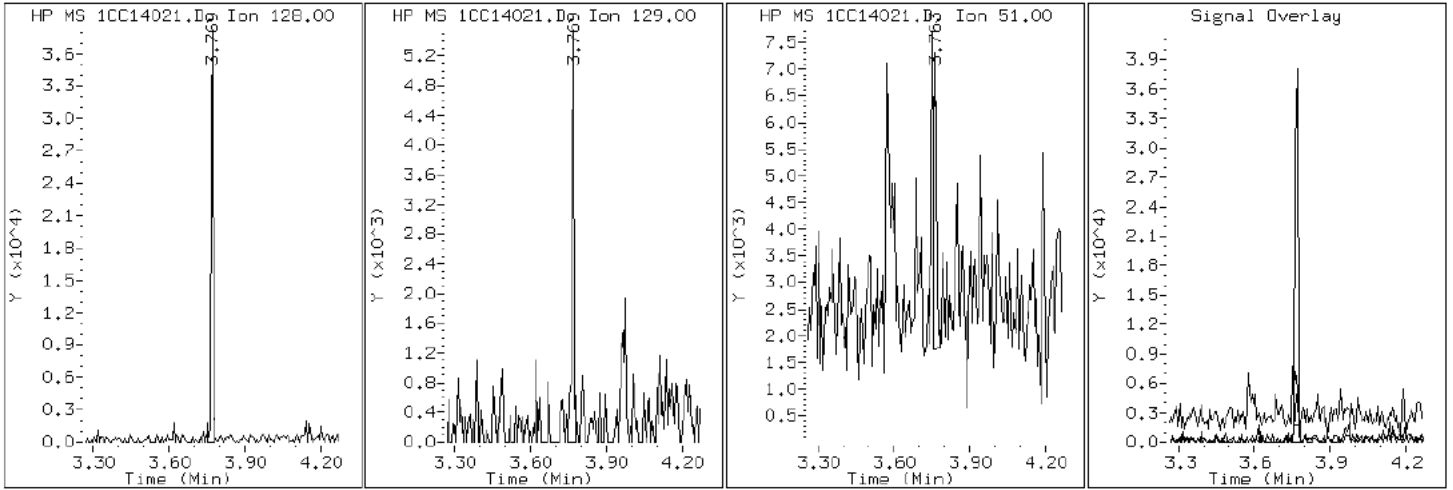
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

2 Naphthalene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

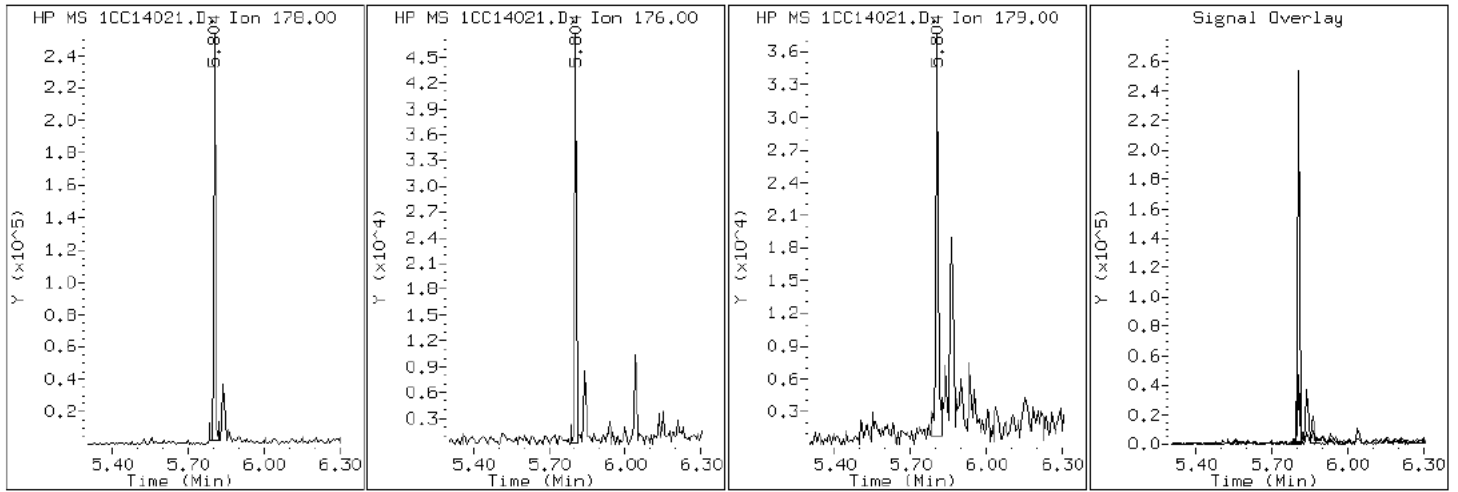
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14021.D

Date: 14-MAR-2013 17:06

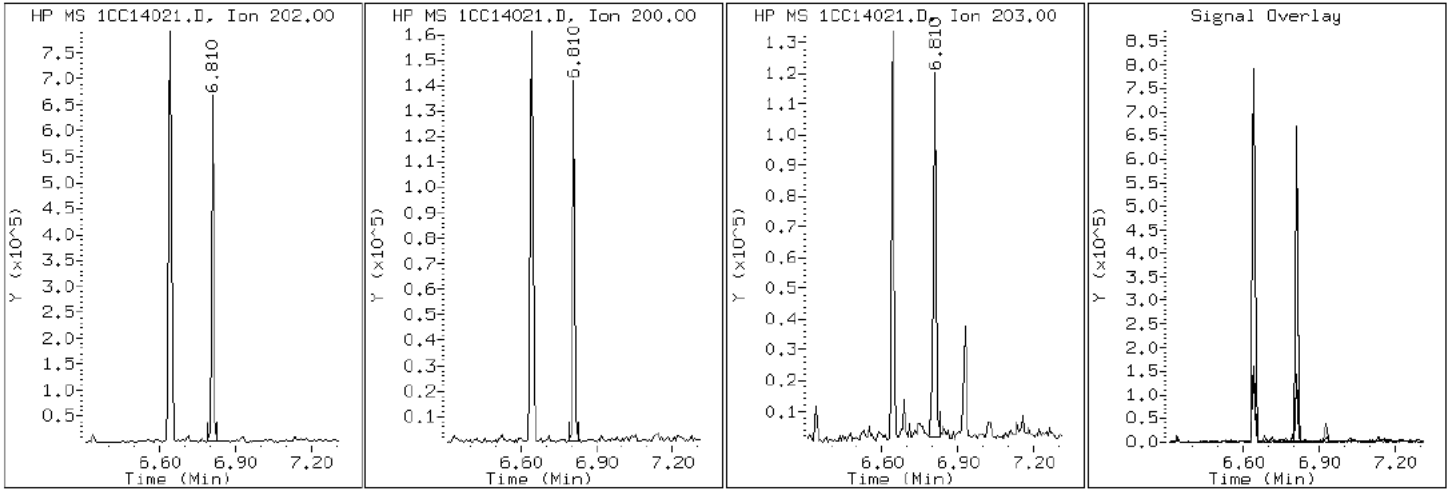
Client ID: CV0277A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-23-a

Operator: SCC

16 Pyrene

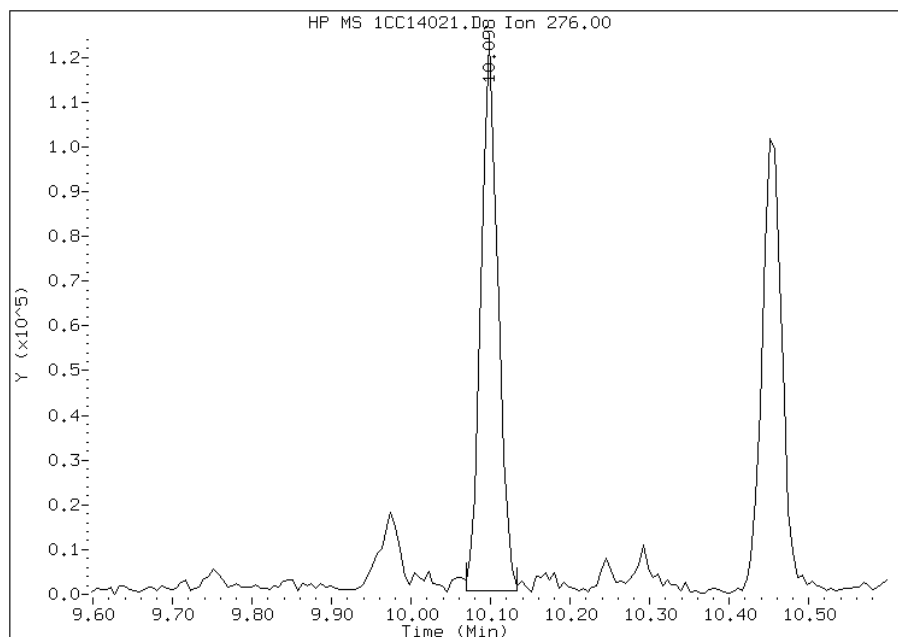


Manual Integration Report

Data File: 1CC14021.D
Inj. Date and Time: 14-MAR-2013 17:06
Instrument ID: BSMC5973.i
Client ID: CV0277A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

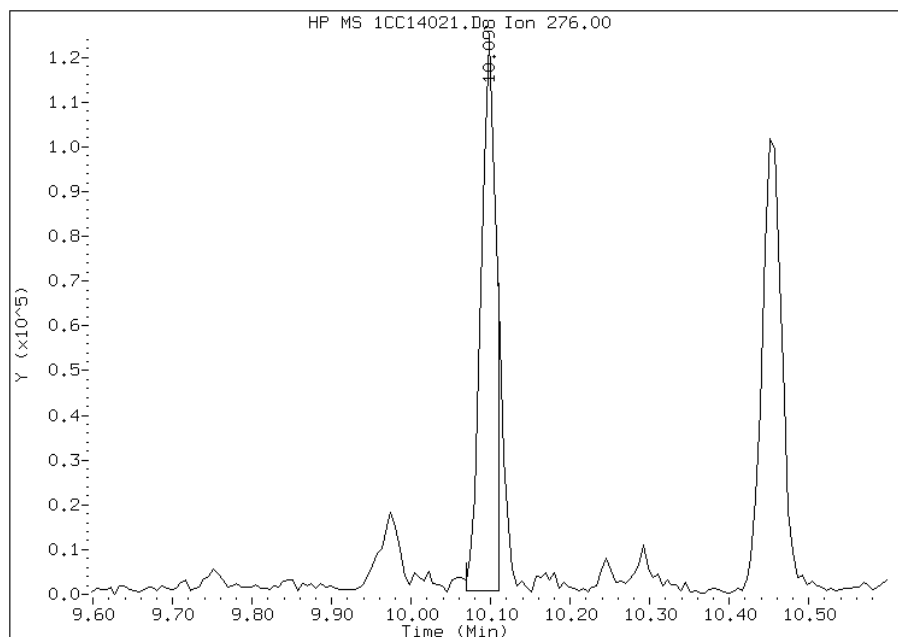
Processing Integration Results

RT: 10.10
Response: 181380
Amount: 5
Conc: 408



Manual Integration Results

RT: 10.10
Response: 163899
Amount: 5
Conc: 368



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0277B-CS-SP Lab Sample ID: 680-88067-24
 Matrix: Solid Lab File ID: 1CC14022.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 14:56
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.26(g) Date Analyzed: 03/14/2013 17:24
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	34	J	150	30
208-96-8	Acenaphthylene	24	J	60	7.5
120-12-7	Anthracene	160		13	6.3
56-55-3	Benzo[a]anthracene	650		12	5.8
50-32-8	Benzo[a]pyrene	680		16	7.8
205-99-2	Benzo[b]fluoranthene	1000		18	9.1
191-24-2	Benzo[g,h,i]perylene	420		30	6.6
207-08-9	Benzo[k]fluoranthene	500		12	5.4
218-01-9	Chrysene	870		13	6.7
53-70-3	Dibenz(a,h)anthracene	130		30	6.1
206-44-0	Fluoranthene	1400		30	6.0
86-73-7	Fluorene	33		30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	340		30	11
90-12-0	1-Methylnaphthalene	120		60	6.6
91-57-6	2-Methylnaphthalene	140		60	11
91-20-3	Naphthalene	110		60	6.6
85-01-8	Phenanthrene	760		12	5.8
129-00-0	Pyrene	1500		30	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14022.D
 Lab Smp Id: 680-88067-A-24-A Client Smp ID: CV0277B-CS-SP
 Inj Date : 14-MAR-2013 17:24
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-24-a
 Misc Info : 680-88067-A-24-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	34.192	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	1043451	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	833761	40.0000	
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1501950	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	166103	7.32477	729.3921
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1598002	40.0000	
* 23 Perylene-d12	264		8.927	8.927	(1.000)	1510570	40.0000	
2 Naphthalene	128		3.768	3.768	(1.005)	29386	1.08176	107.7204
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	24720	1.36422	135.8475
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	19948	1.20874	120.3645
5 Acenaphthylene	152		4.751	4.751	(0.982)	7972	0.23716	23.6159
7 Acenaphthene	154		4.863	4.857	(1.005)	7220	0.34556	34.4108
9 Fluorene	166		5.180	5.180	(1.070)	8657	0.32763	32.6245(Q)
11 Phenanthrene	178		5.804	5.804	(1.002)	331071	7.62314	759.1030
12 Anthracene	178		5.839	5.839	(1.008)	67058	1.57880	157.2150

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.945	5.945	(1.026)	32202	0.85289	84.9295
15 Fluoranthene	202	6.645	6.639	(1.147)	654542	13.7622	1370.4244
16 Pyrene	202	6.809	6.809	(0.881)	644172	15.0003	1493.7100
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	303173	6.57337	654.5680
19 Chrysene	228	7.751	7.751	(1.002)	401981	8.70917	867.2488
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.960)	400654	10.1491	1010.6353(M)
21 Benzo(k)fluoranthene	252	8.586	8.598	(0.962)	201399	4.97317	495.2228(M)
22 Benzo(a)pyrene	252	8.868	8.868	(0.993)	262488	6.84544	681.6614
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.131)	122787	3.40397	338.9633(M)
25 Dibenzo(a,h)anthracene	278	10.109	10.121	(1.132)	45861	1.29980	129.4322
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	158351	4.19650	417.8828

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC14022.D

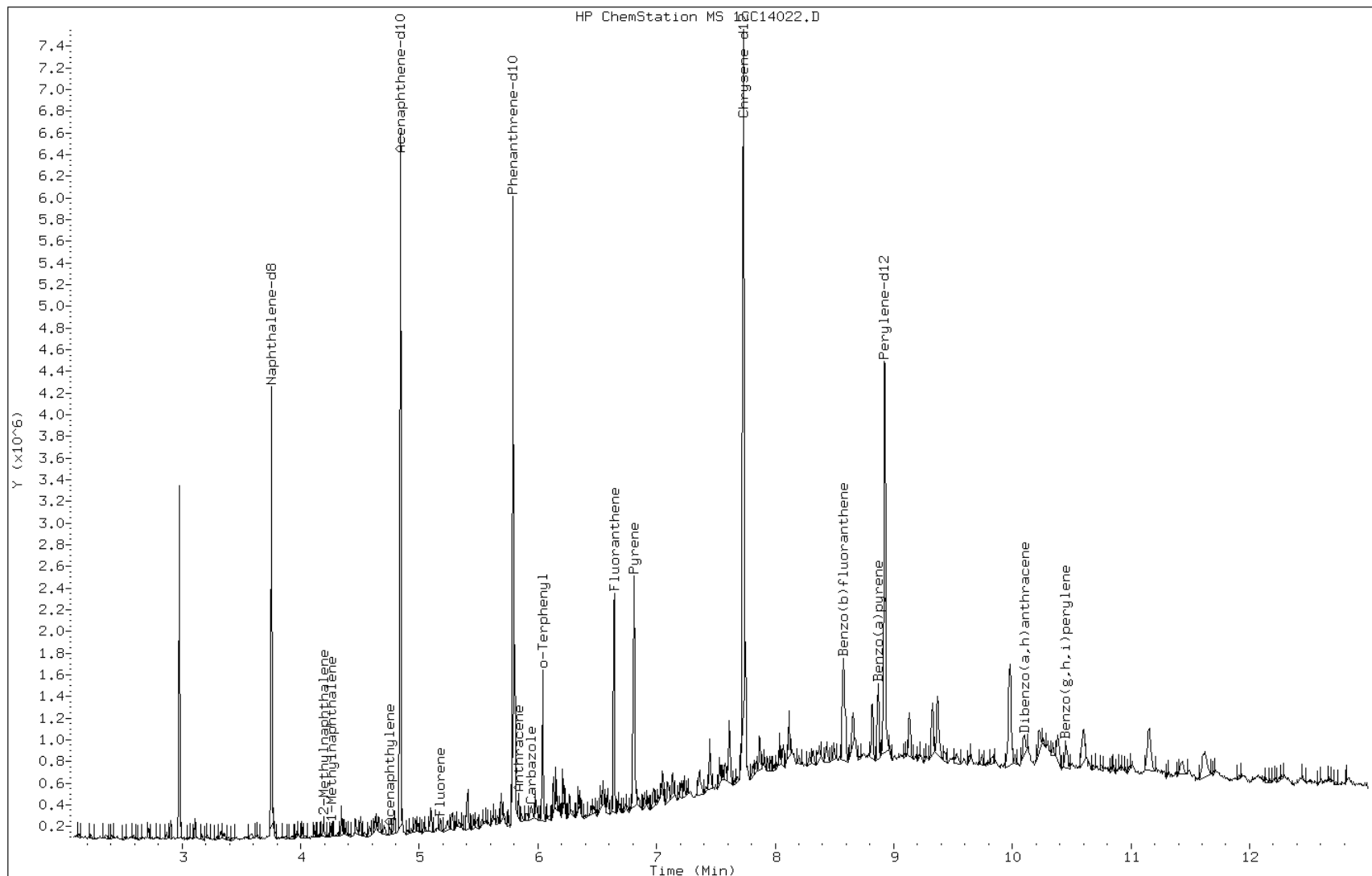
Date: 14-MAR-2013 17:24

Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

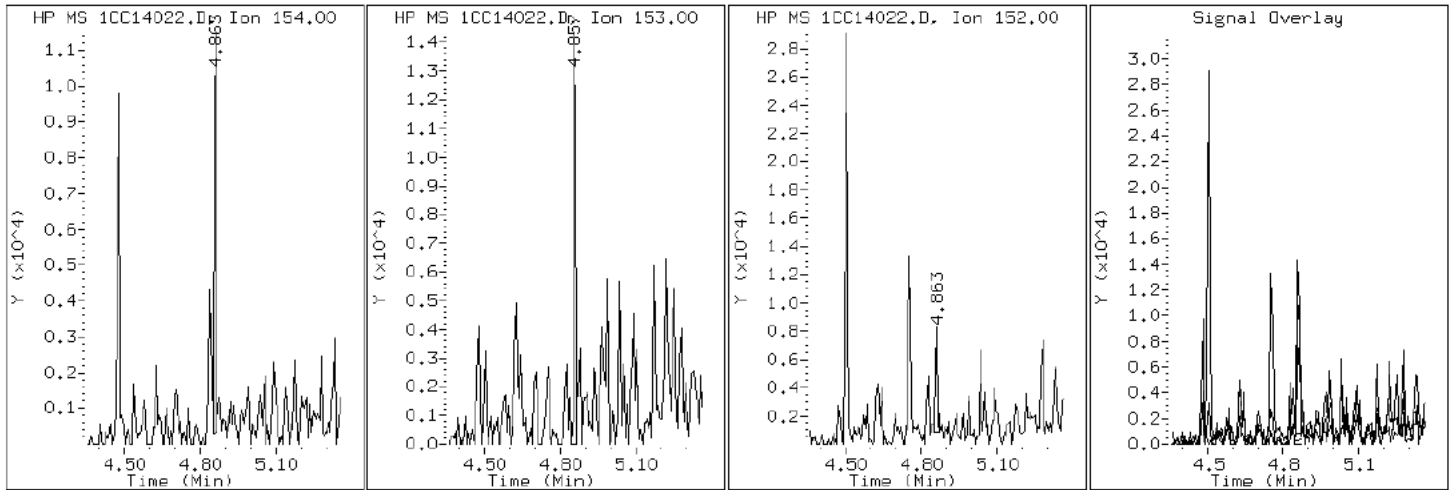
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

7 Acenaphthene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

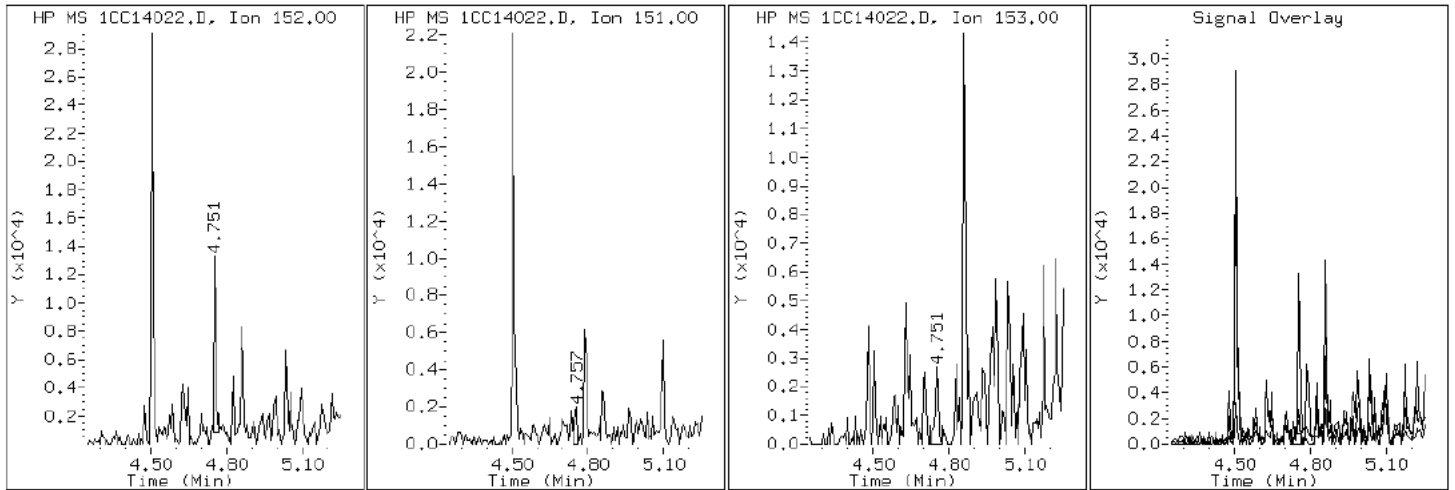
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

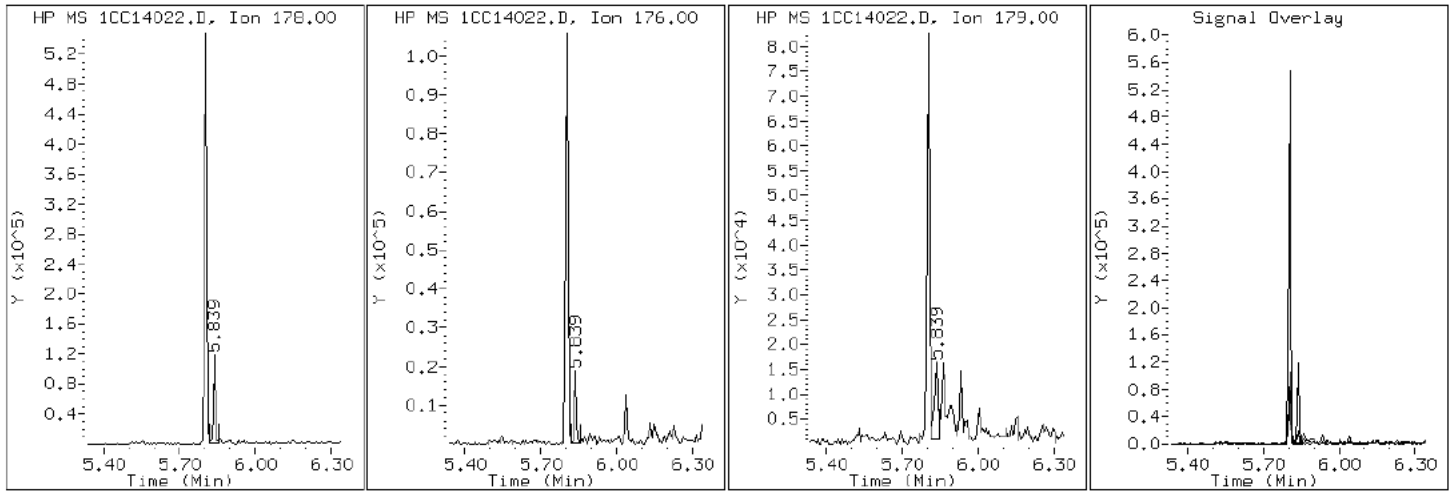
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

12 Anthracene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

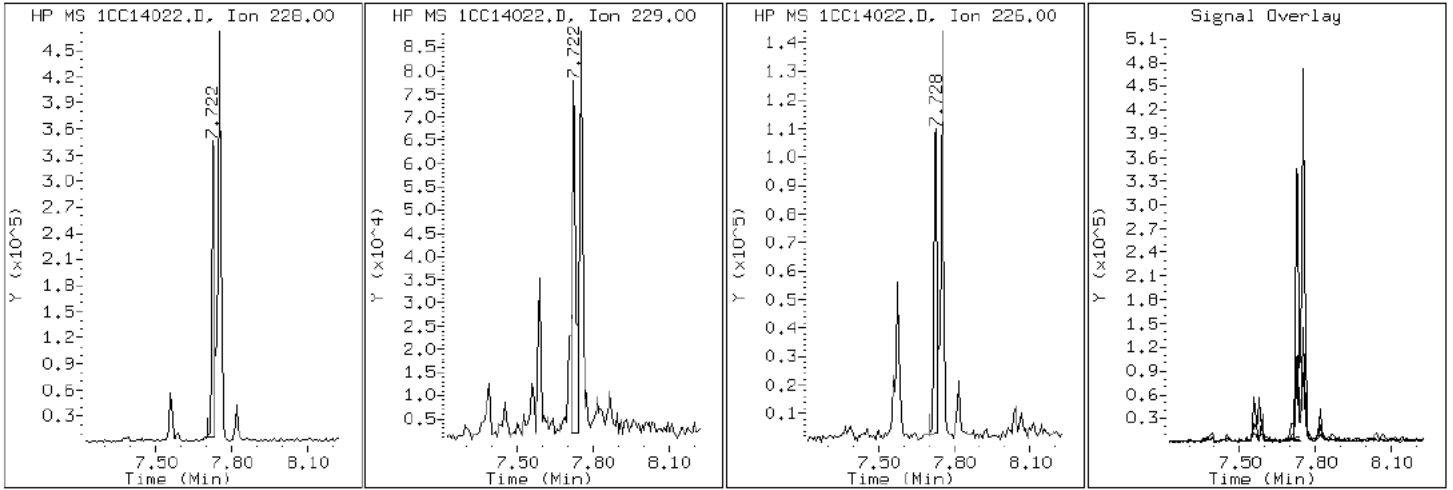
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

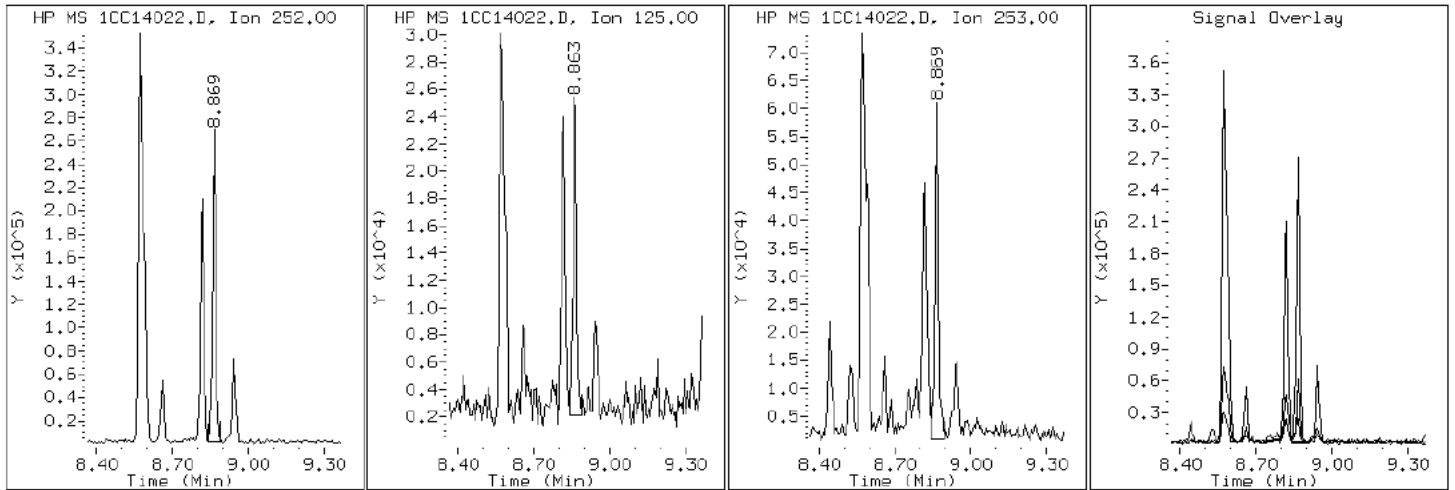
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

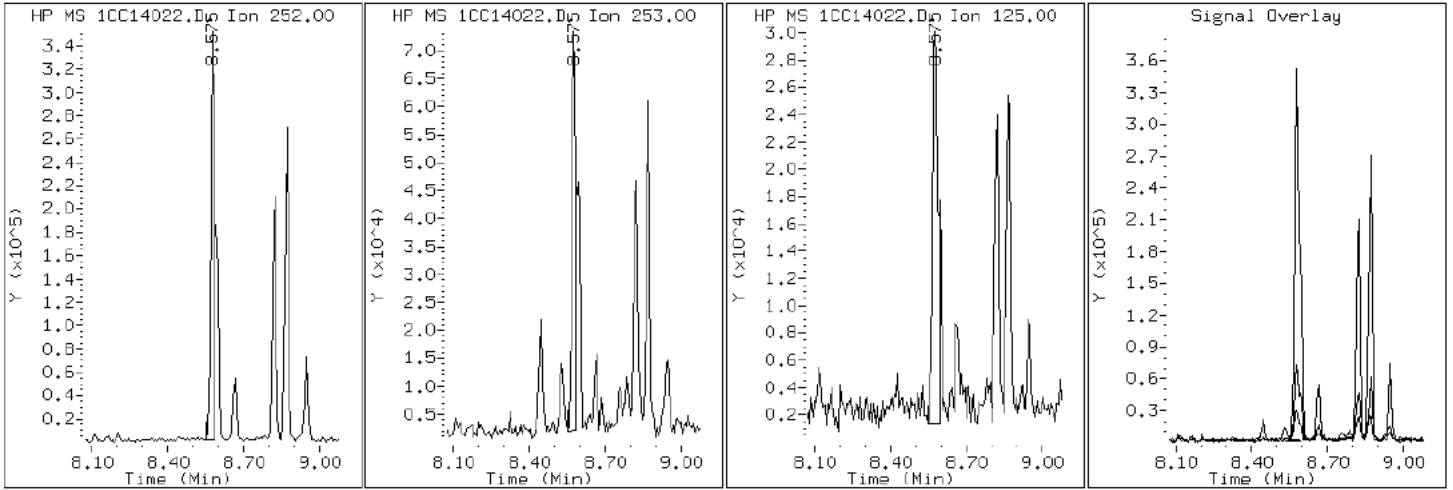
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

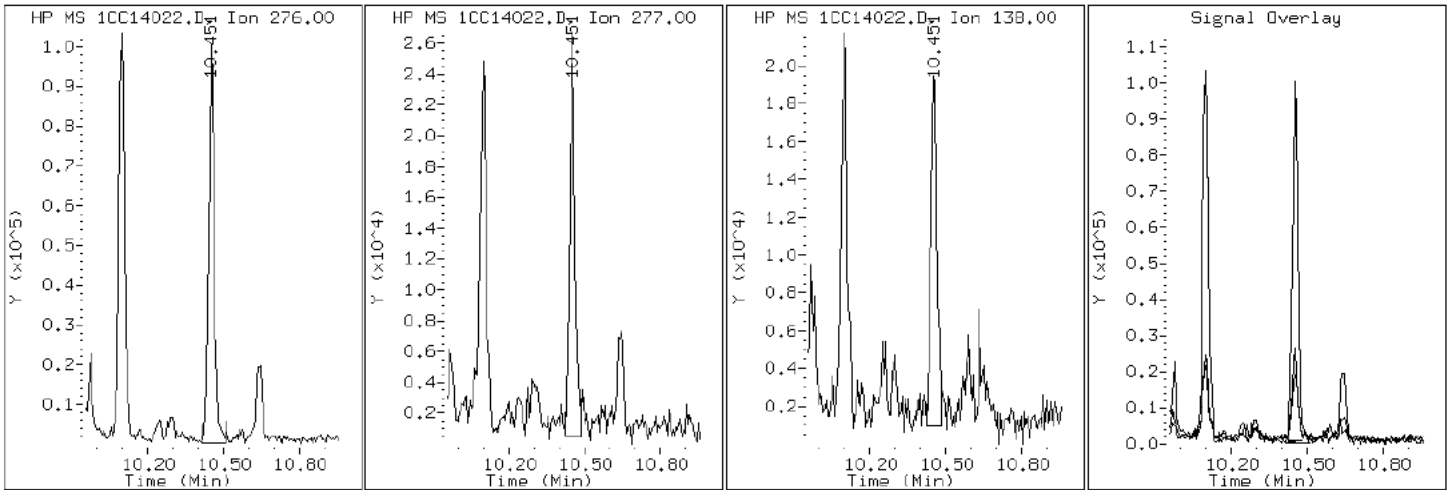
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

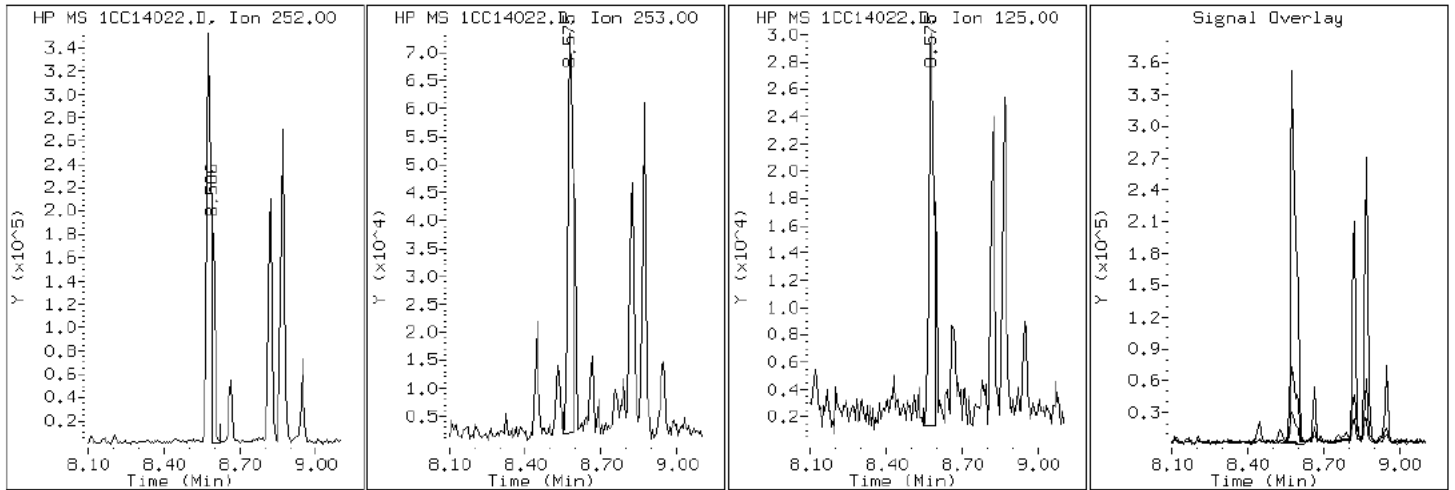
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

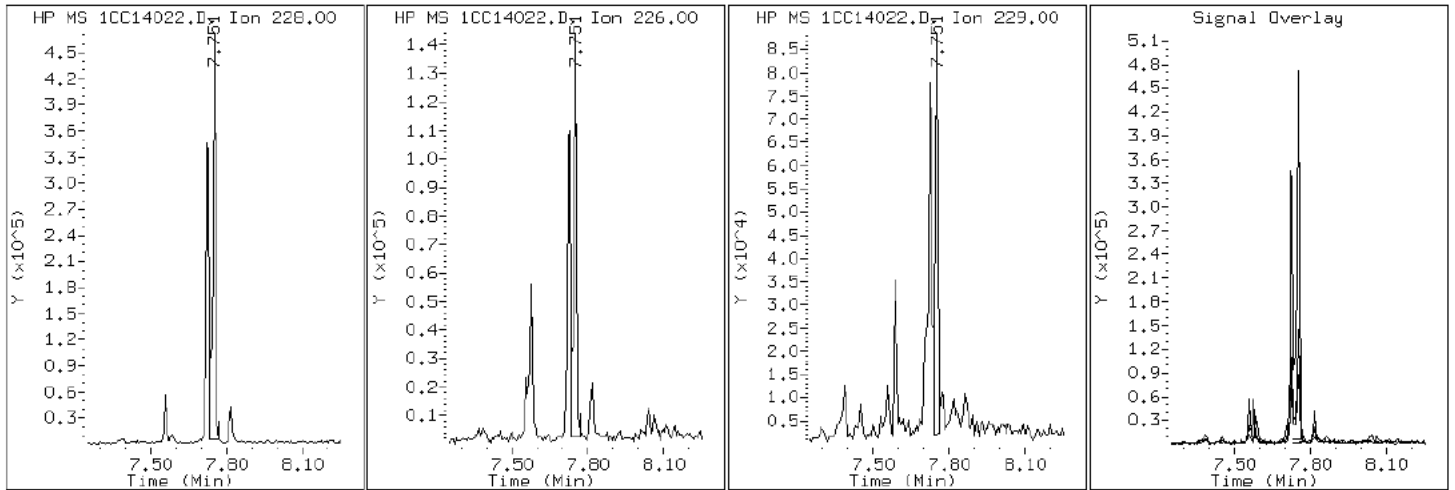
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

19 Chrysene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

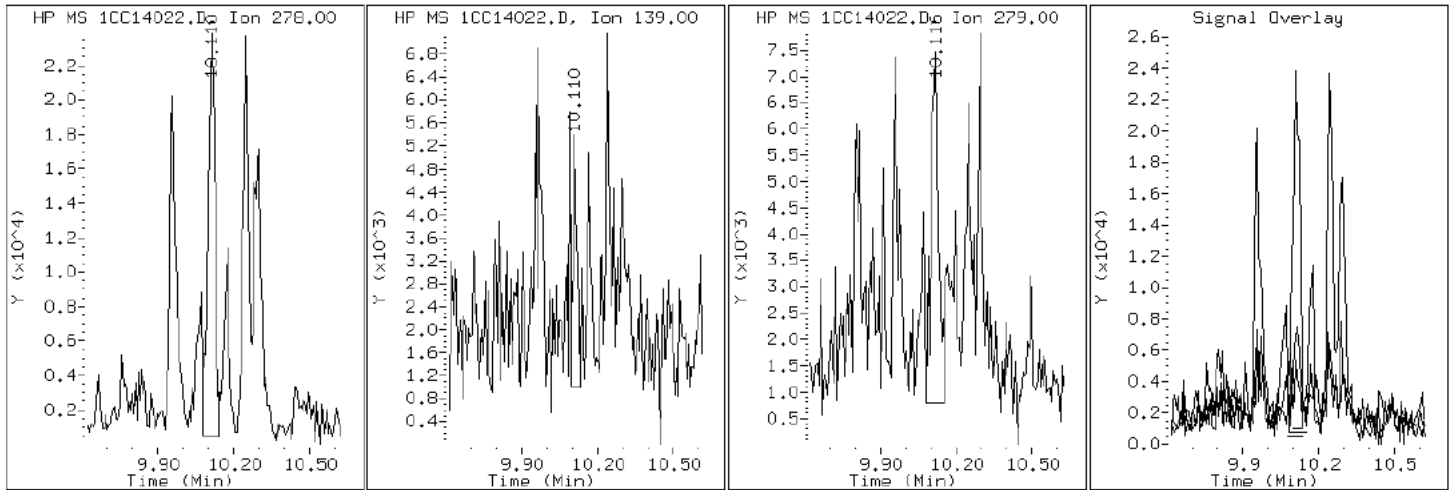
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

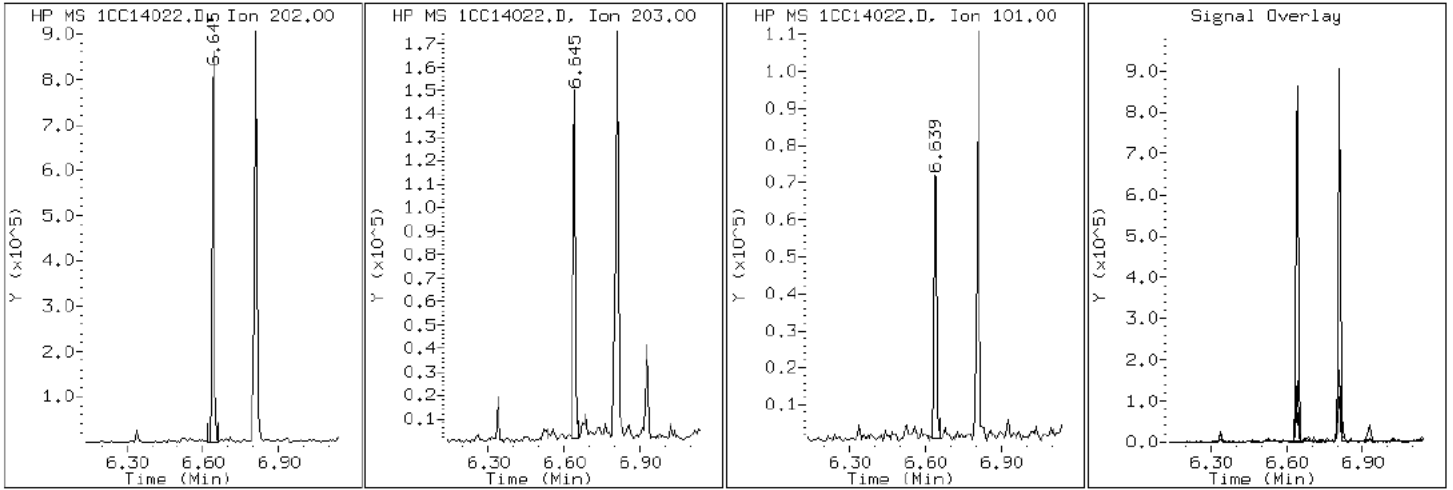
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

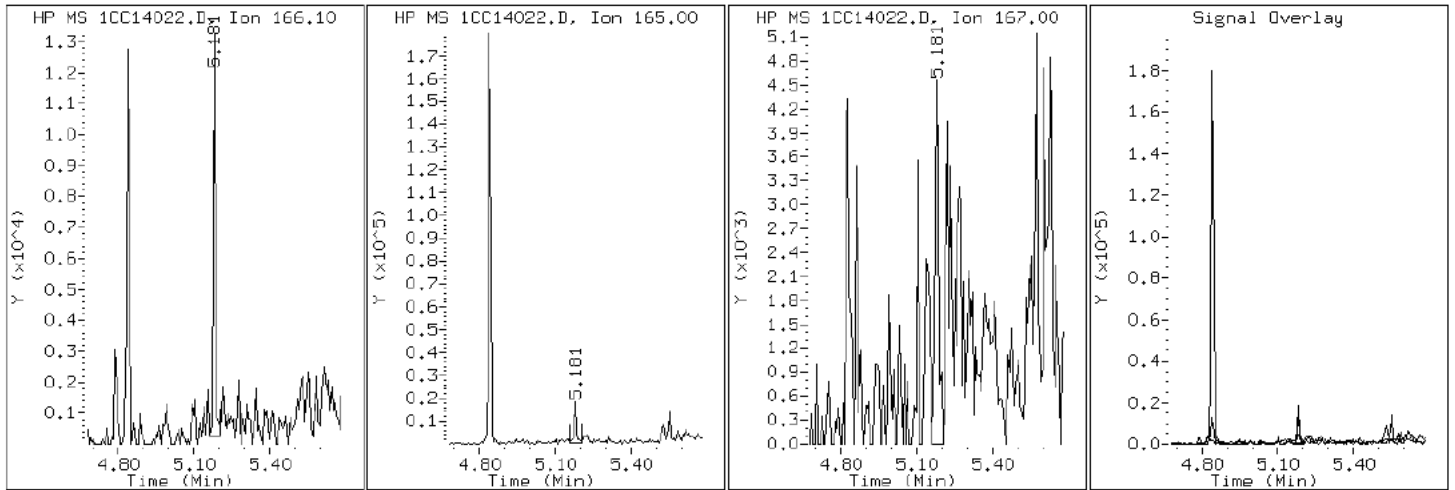
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

9 Fluorene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

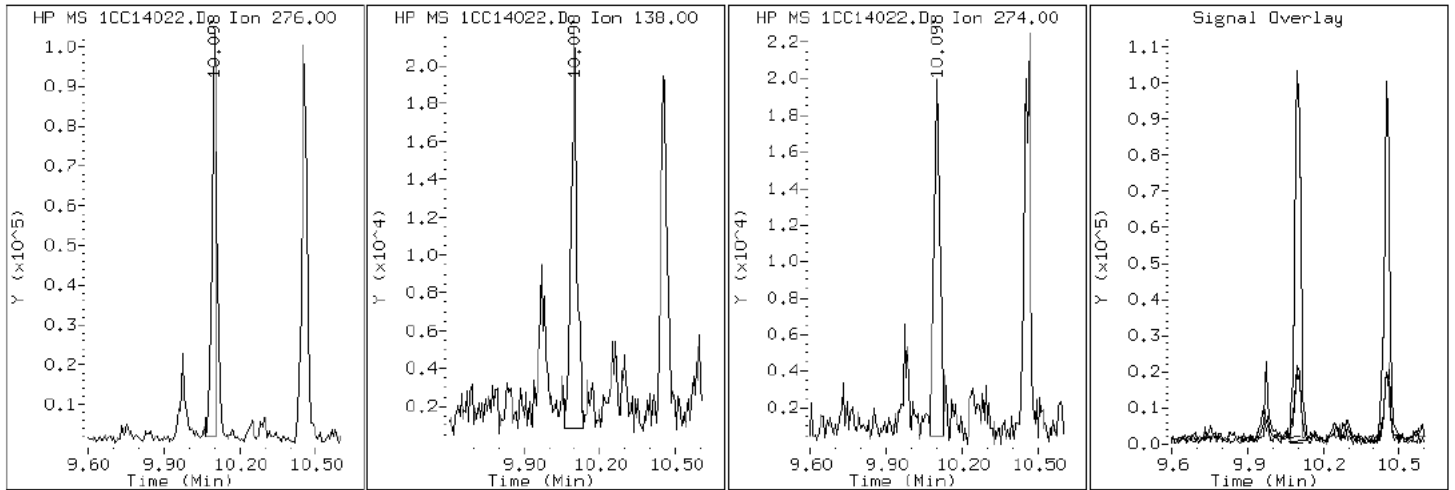
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

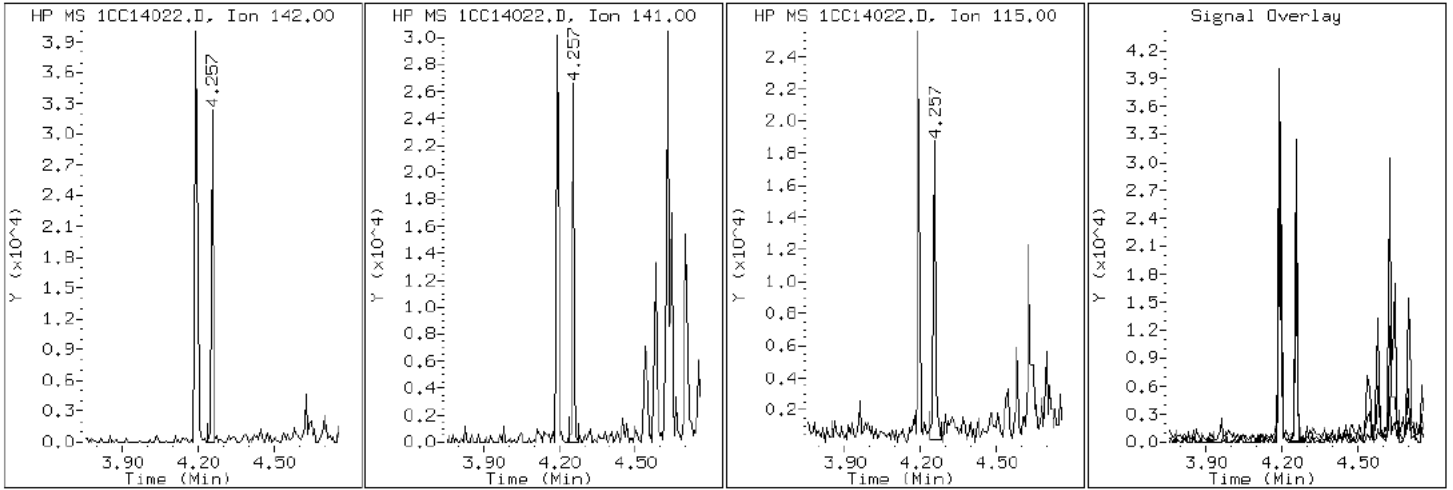
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

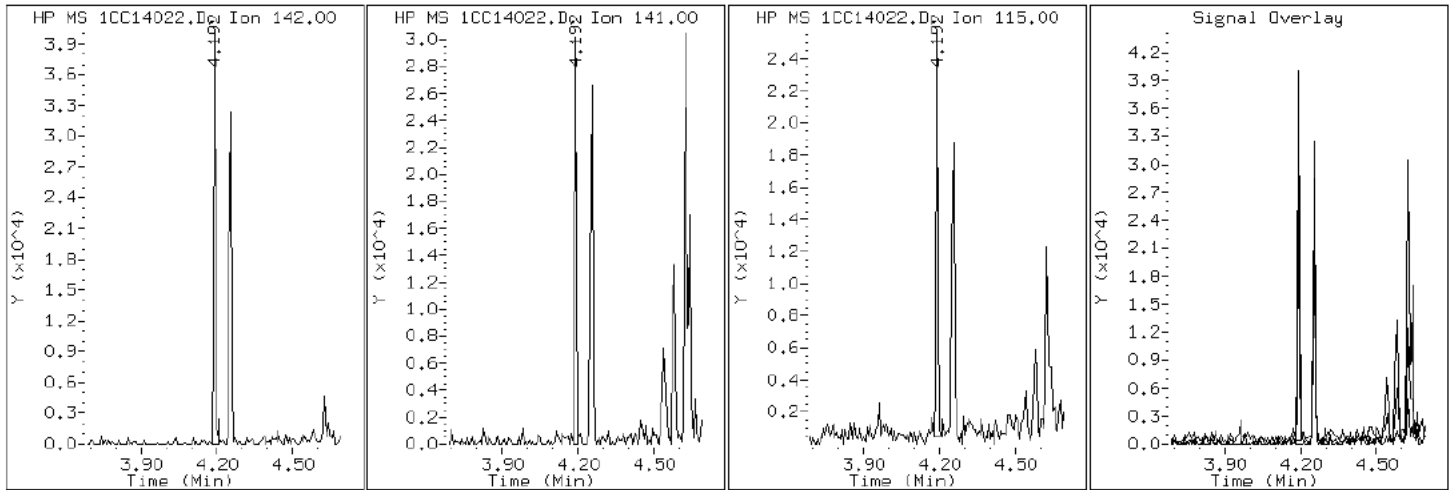
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

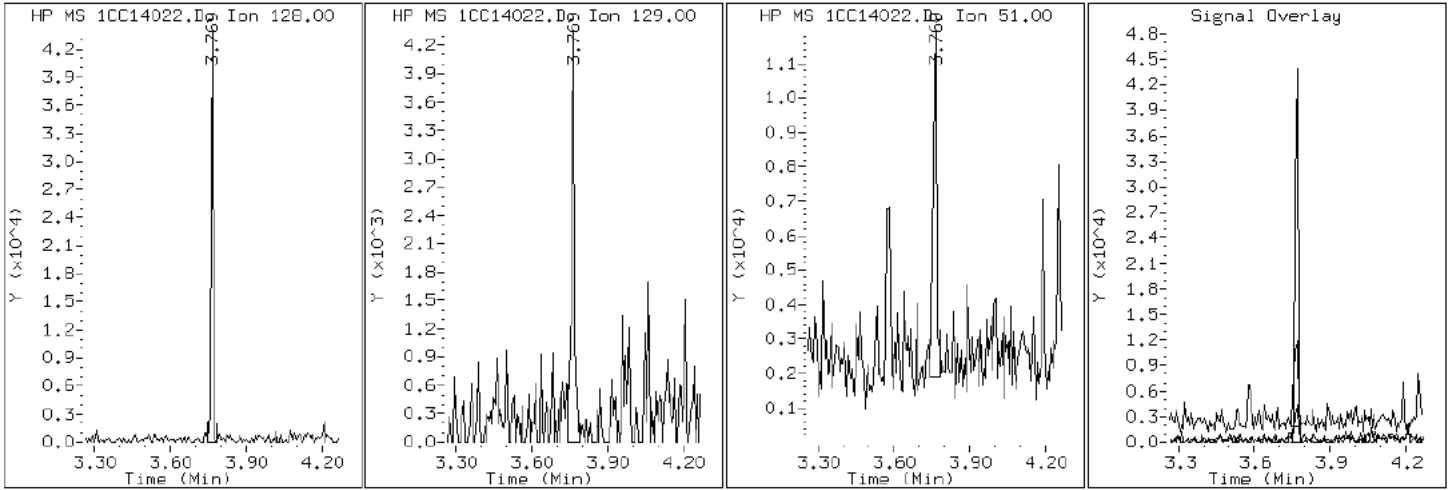
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

2 Naphthalene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

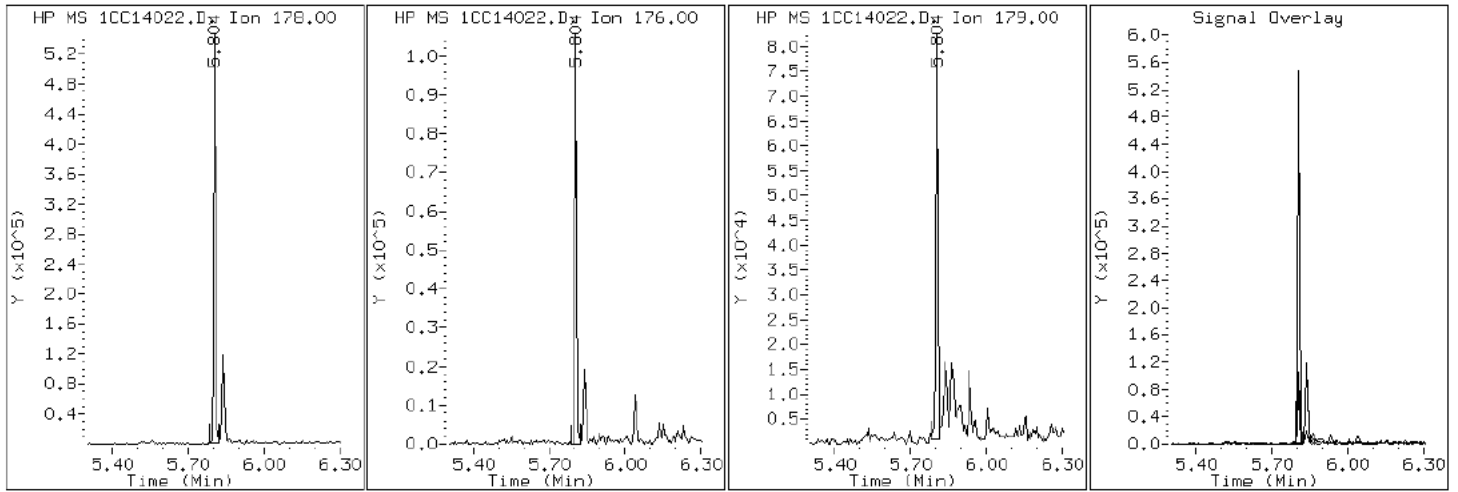
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14022.D

Date: 14-MAR-2013 17:24

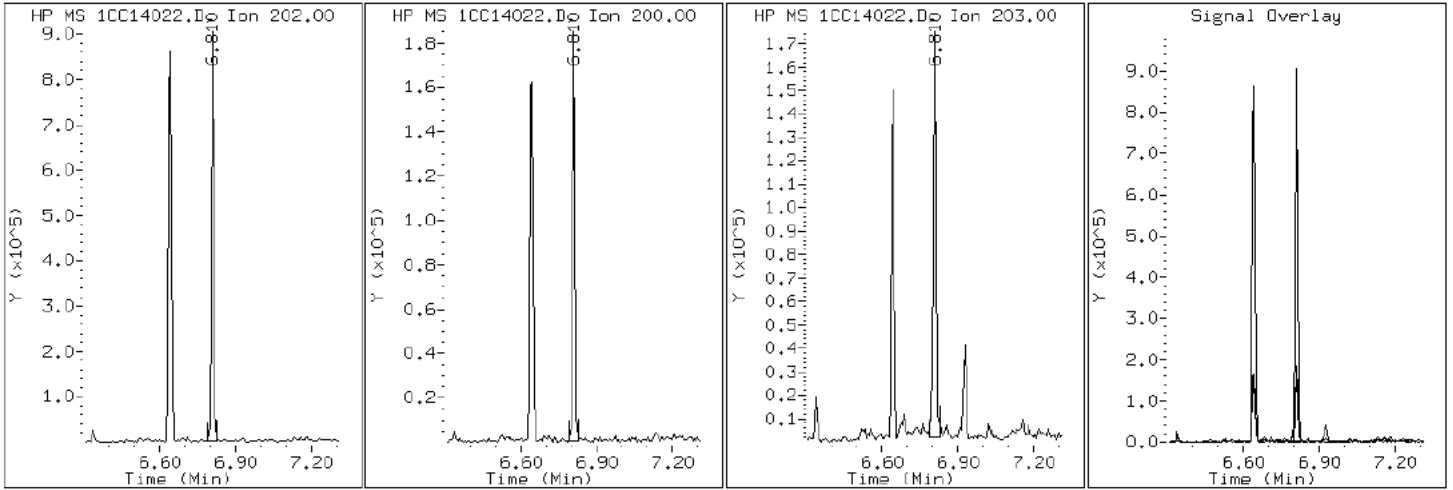
Client ID: CV0277B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-24-a

Operator: SCC

16 Pyrene

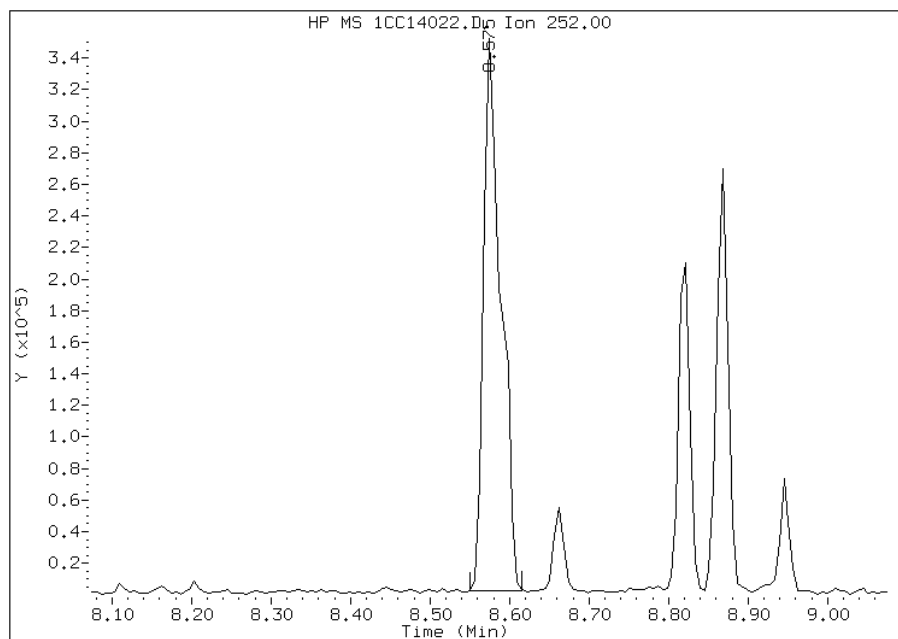


Manual Integration Report

Data File: 1CC14022.D
Inj. Date and Time: 14-MAR-2013 17:24
Instrument ID: BSMC5973.i
Client ID: CV0277B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

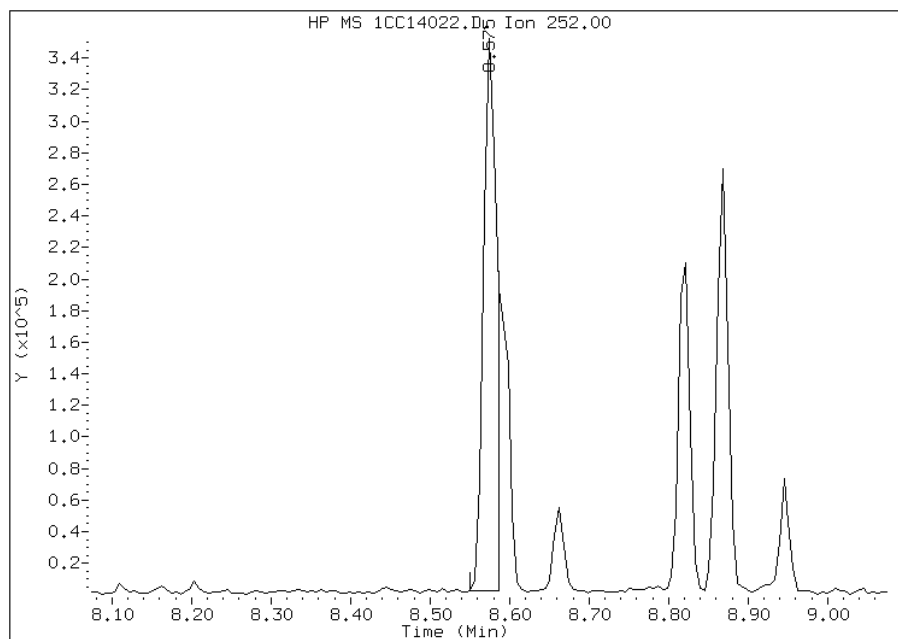
Processing Integration Results

RT: 8.57
Response: 529952
Amount: 13
Conc: 1337



Manual Integration Results

RT: 8.57
Response: 400654
Amount: 10
Conc: 1011



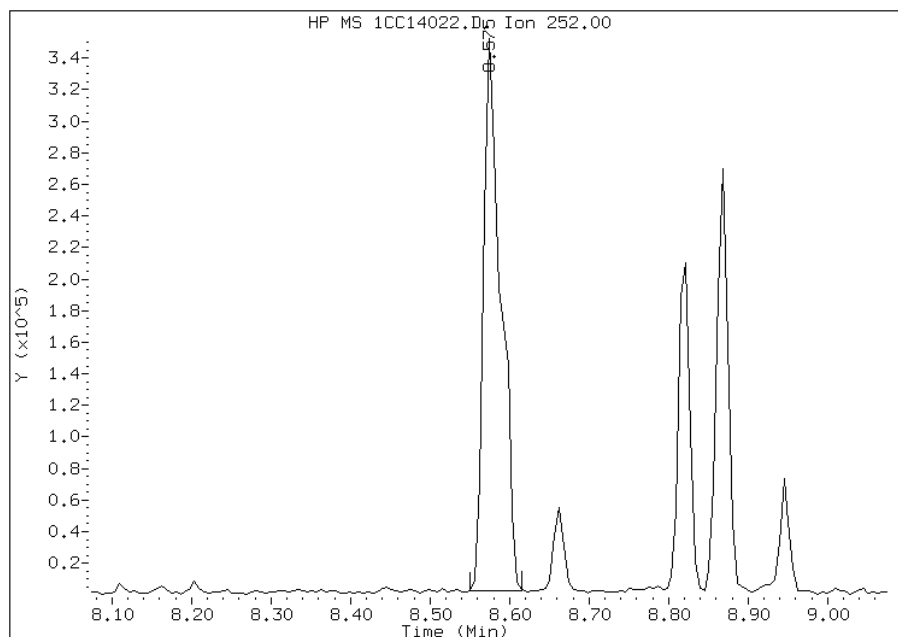
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14022.D
Inj. Date and Time: 14-MAR-2013 17:24
Instrument ID: BSMC5973.i
Client ID: CV0277B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

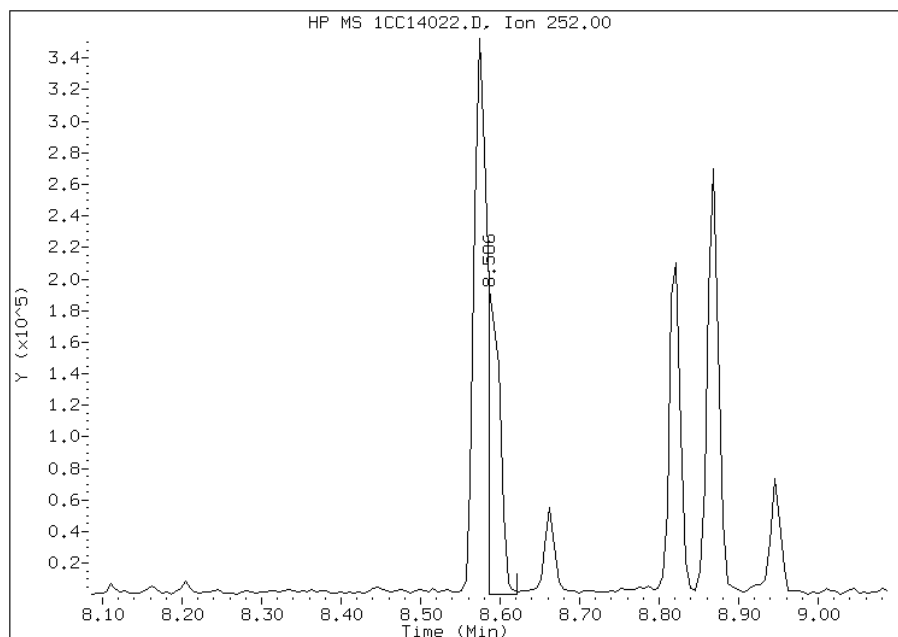
Processing Integration Results

RT: 8.57
Response: 529952
Amount: 13
Conc: 1303



Manual Integration Results

RT: 8.59
Response: 201399
Amount: 5
Conc: 495



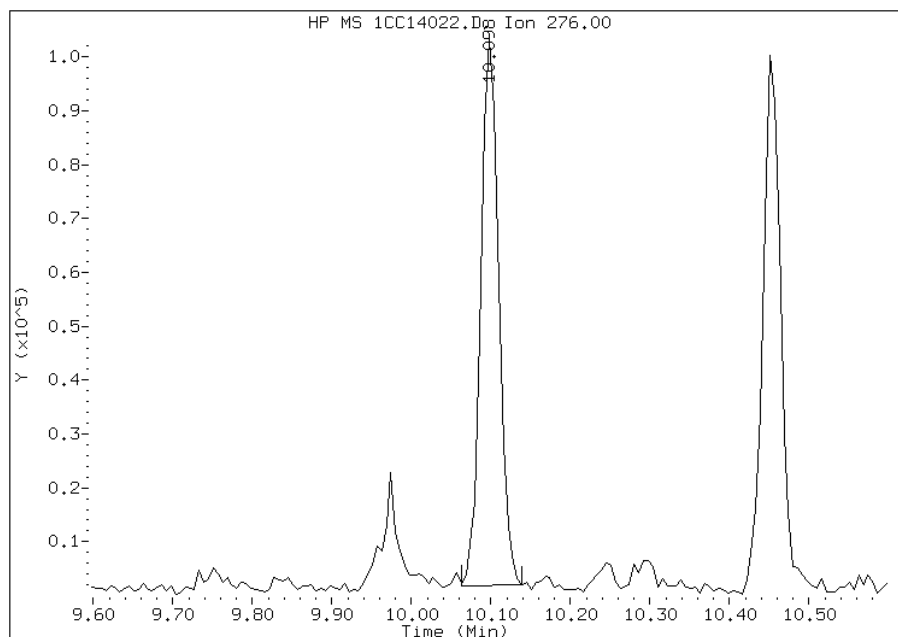
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14022.D
Inj. Date and Time: 14-MAR-2013 17:24
Instrument ID: BSMC5973.i
Client ID: CV0277B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

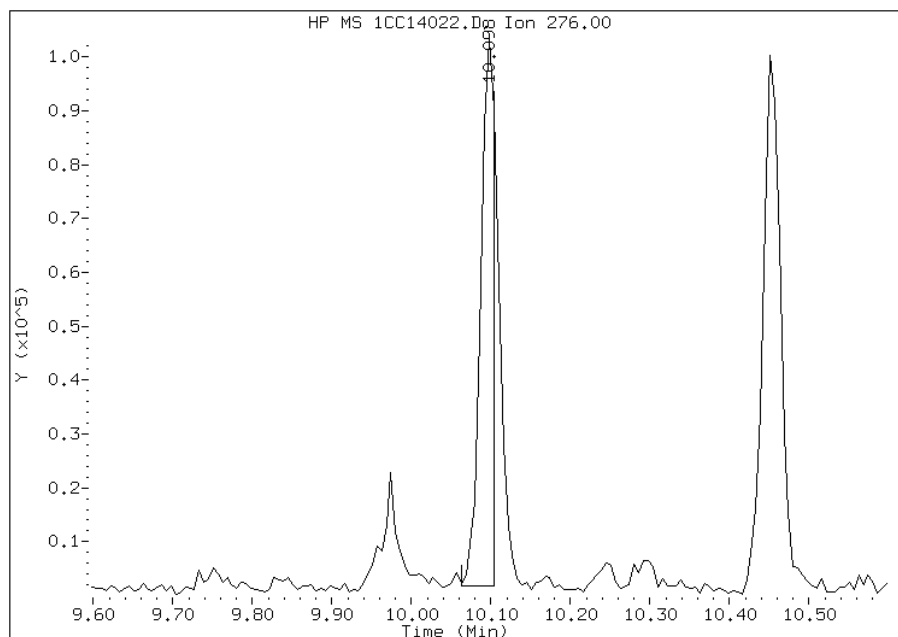
Processing Integration Results

RT: 10.10
Response: 158109
Amount: 4
Conc: 436



Manual Integration Results

RT: 10.10
Response: 122787
Amount: 3
Conc: 339



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0632A-SP-SP Lab Sample ID: 680-88067-25
 Matrix: Solid Lab File ID: 1CC14023.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 15:39
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 14.95(g) Date Analyzed: 03/14/2013 17:42
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 29.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570	U	570	110
208-96-8	Acenaphthylene	54	J	230	28
120-12-7	Anthracene	110		48	24
56-55-3	Benzo[a]anthracene	560		45	22
50-32-8	Benzo[a]pyrene	470		59	29
205-99-2	Benzo[b]fluoranthene	930		69	35
191-24-2	Benzo[g,h,i]perylene	310		110	25
207-08-9	Benzo[k]fluoranthene	210		45	20
218-01-9	Chrysene	730		51	25
53-70-3	Dibenz(a,h)anthracene	90	J	110	23
206-44-0	Fluoranthene	1000		110	23
86-73-7	Fluorene	45	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	290		110	40
90-12-0	1-Methylnaphthalene	360		230	25
91-57-6	2-Methylnaphthalene	390		230	40
91-20-3	Naphthalene	270		230	25
85-01-8	Phenanthrene	750		45	22
129-00-0	Pyrene	980		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14023.D
 Lab Smp Id: 680-88067-A-25-A Client Smp ID: CV0632A-SP-SP
 Inj Date : 14-MAR-2013 17:42
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-25-a
 Misc Info : 680-88067-A-25-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 23
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	29.150	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.757	3.757	(1.000)	1110639	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	851646	40.0000		
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1605291	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	38251	1.57820	595.9897	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1615967	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1544810	40.0000		
2 Naphthalene	128		3.769	3.768	(1.003)	20659	0.71449	269.8216	
3 2-Methylnaphthalene	142		4.192	4.192	(1.116)	19705	1.02167	385.8243	
4 1-Methylnaphthalene	142		4.257	4.257	(1.133)	16784	0.95549	360.8314	
5 Acenaphthylene	152		4.751	4.751	(0.982)	4943	0.14396	54.3653	
9 Fluorene	166		5.180	5.180	(1.070)	3229	0.11964	45.1791	
11 Phenanthrene	178		5.804	5.804	(1.002)	92272	1.98785	750.6922	
12 Anthracene	178		5.839	5.839	(1.008)	12897	0.28410	107.2863	
13 Carbazole	167		5.945	5.945	(1.026)	12749	0.31593	119.3065	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.645	6.639	(1.147)	139114	2.73667	1033.4769
16 Pyrene	202	6.809	6.809	(0.881)	112310	2.58619	976.6487
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	69534	1.49087	563.0111
19 Chrysene	228	7.751	7.751	(1.002)	90550	1.94001	732.6257
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	99517	2.46502	930.8907
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	22625	0.54630	206.3043(QM)
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	49211	1.25493	473.9122
24 Indeno(1,2,3-cd)pyrene	276	10.098	10.097	(1.132)	28036	0.76000	287.0072(M)
25 Dibenzo(a,h)anthracene	278	10.115	10.121	(1.134)	8585	0.23792	89.8495
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	31995	0.82911	313.1066

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Data File: 1CC14023.D

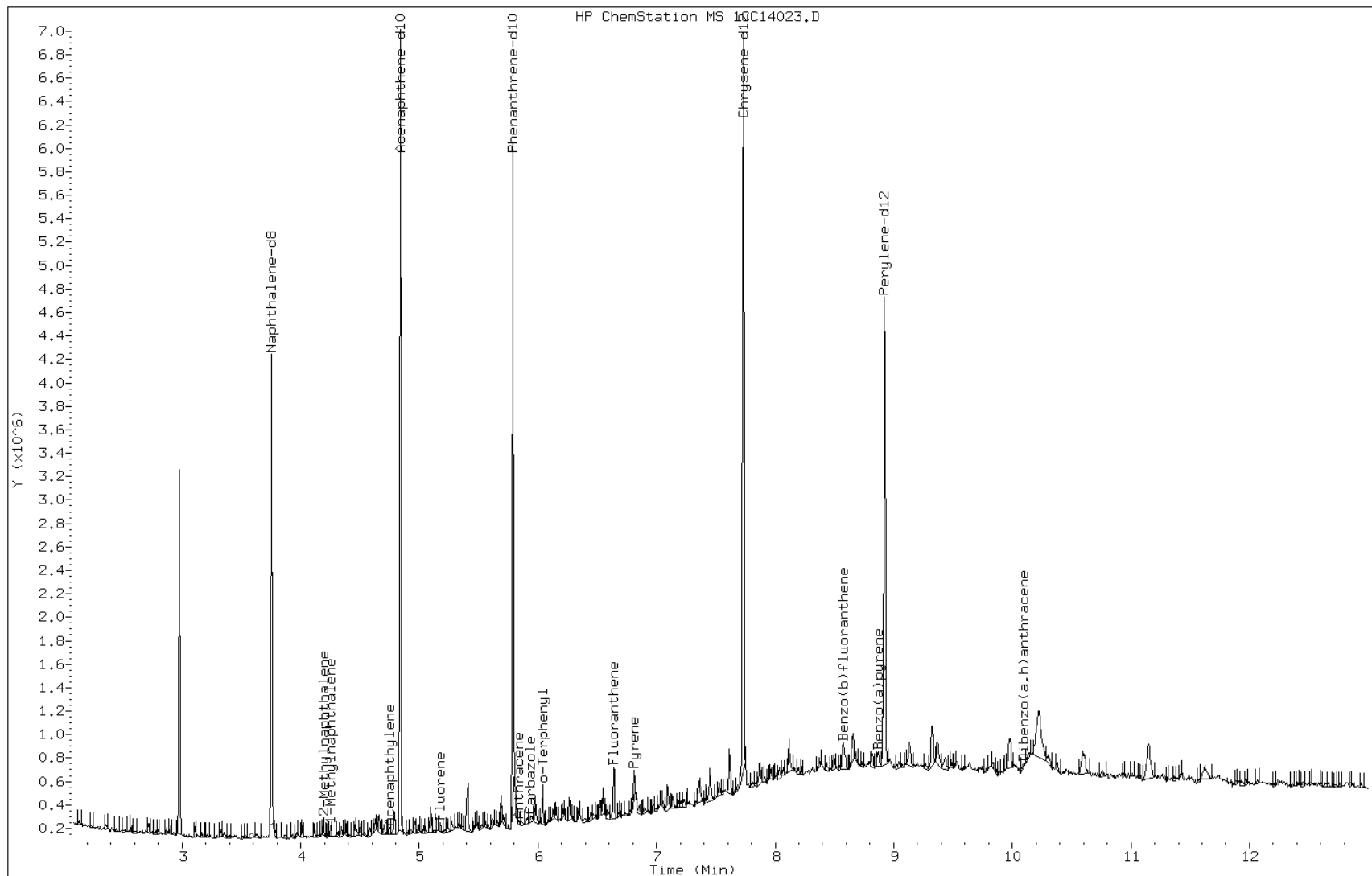
Date: 14-MAR-2013 17:42

Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

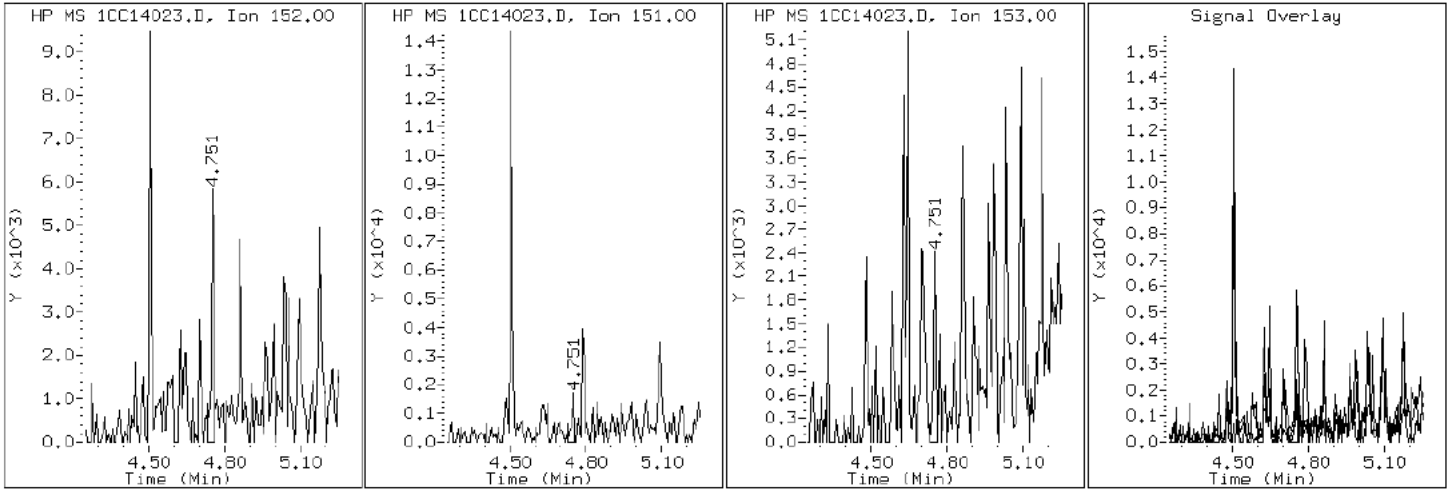
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

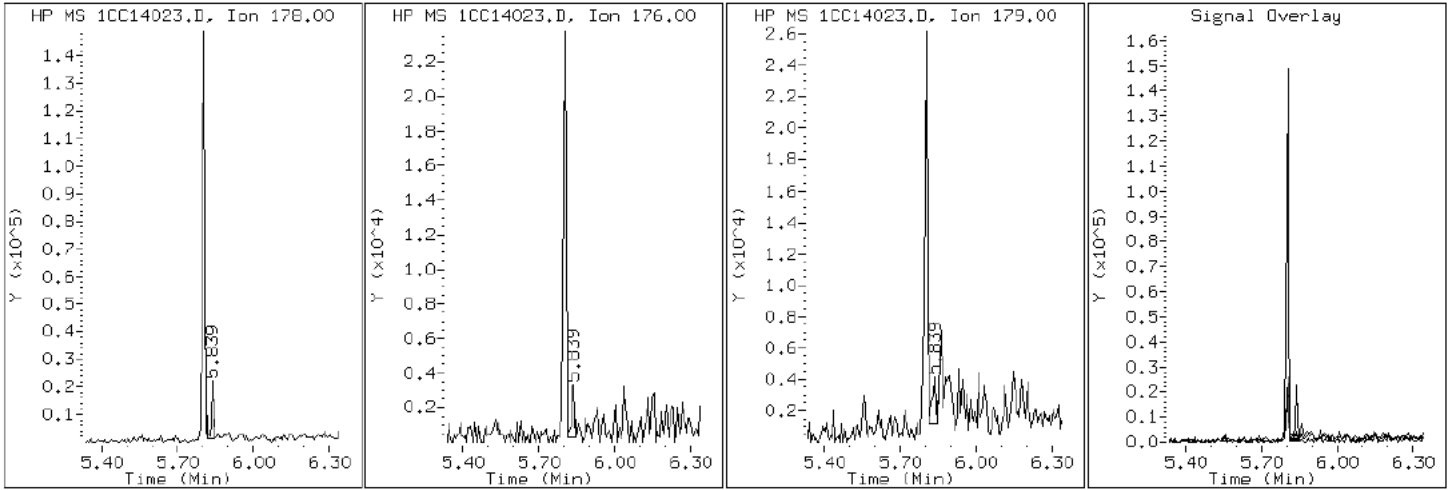
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

12 Anthracene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

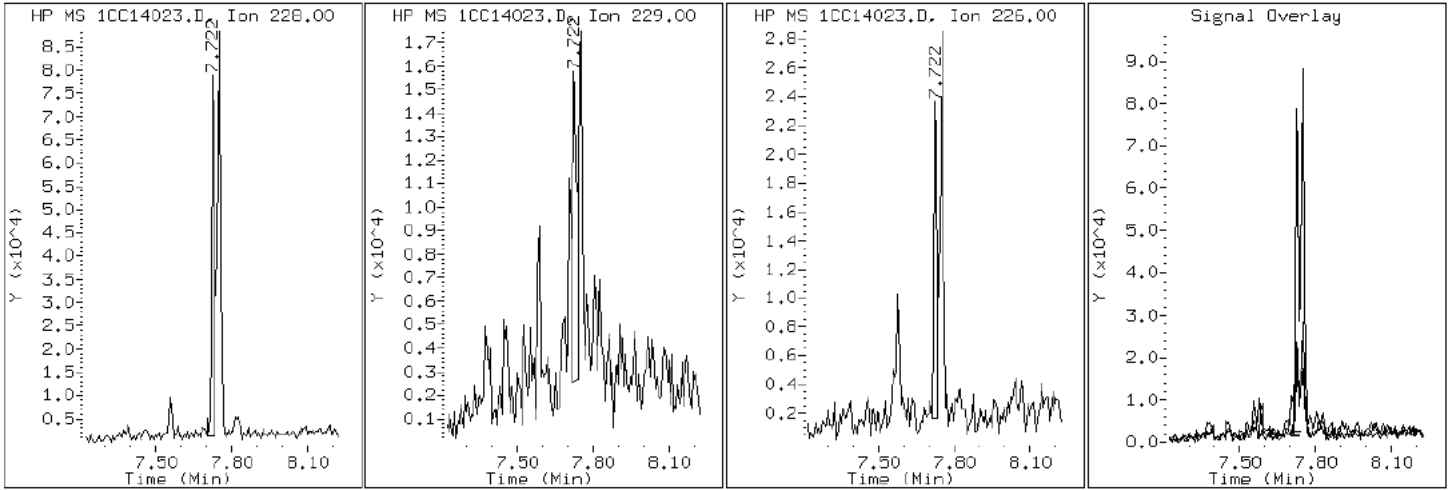
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

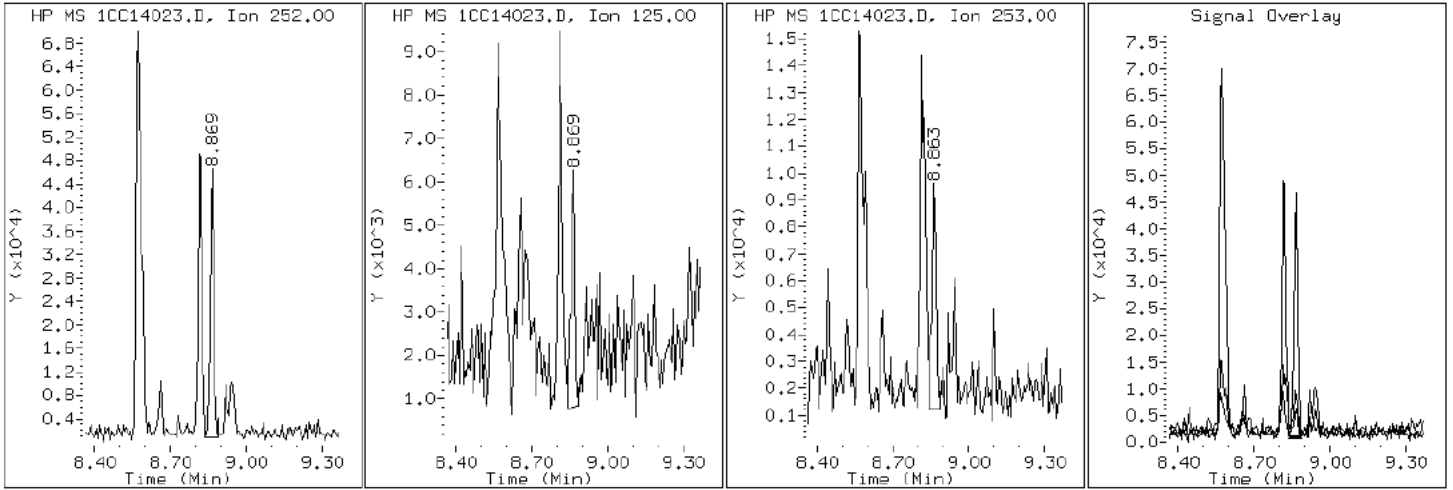
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

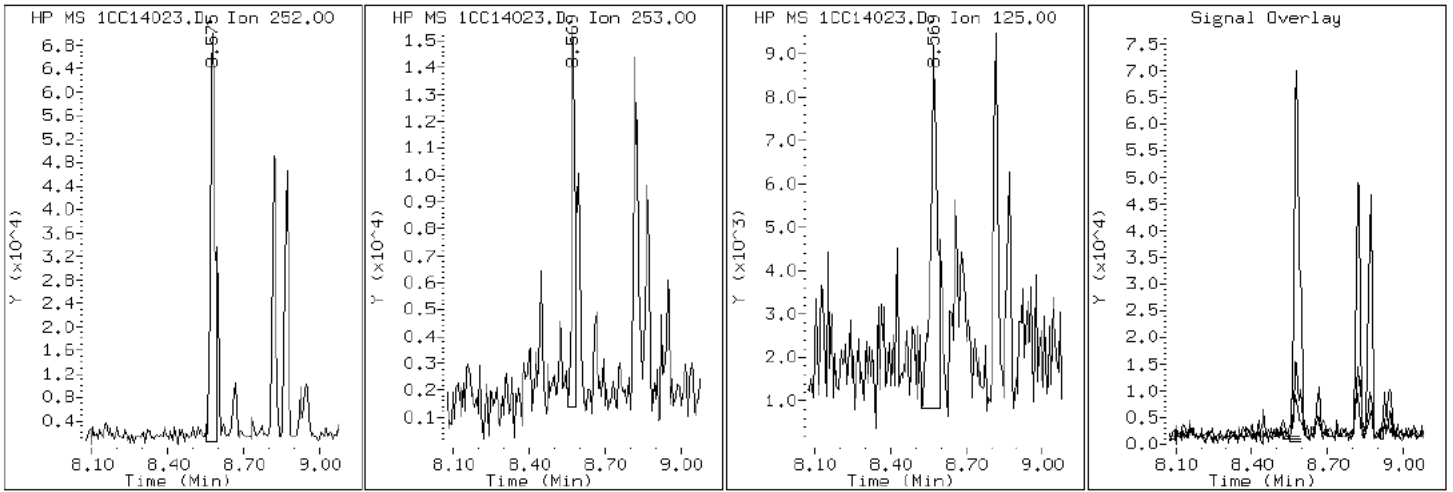
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

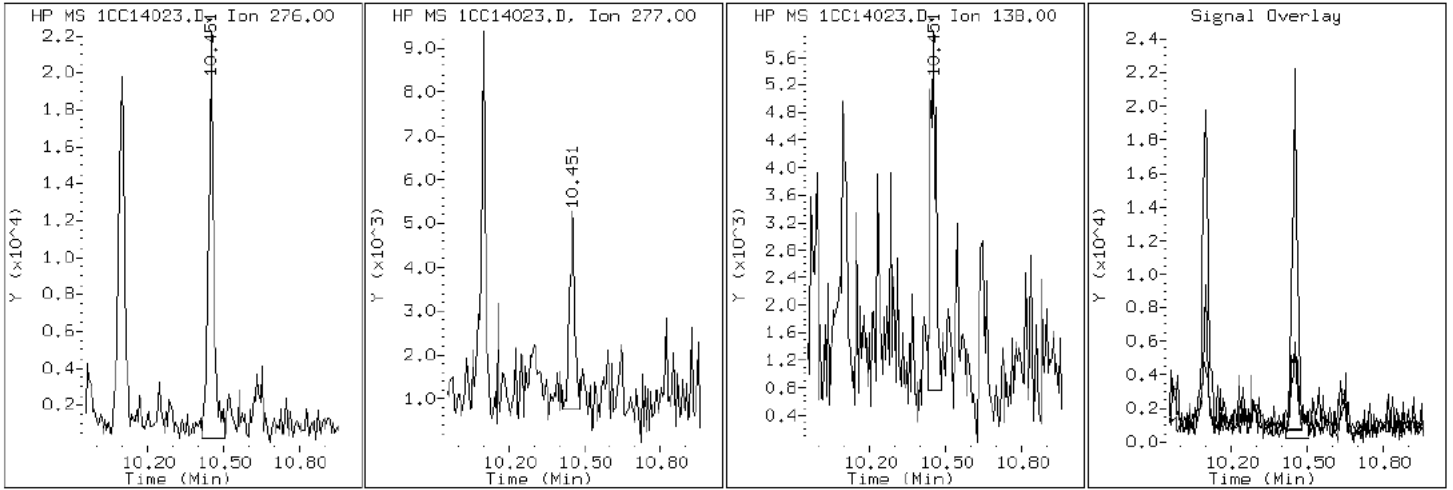
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

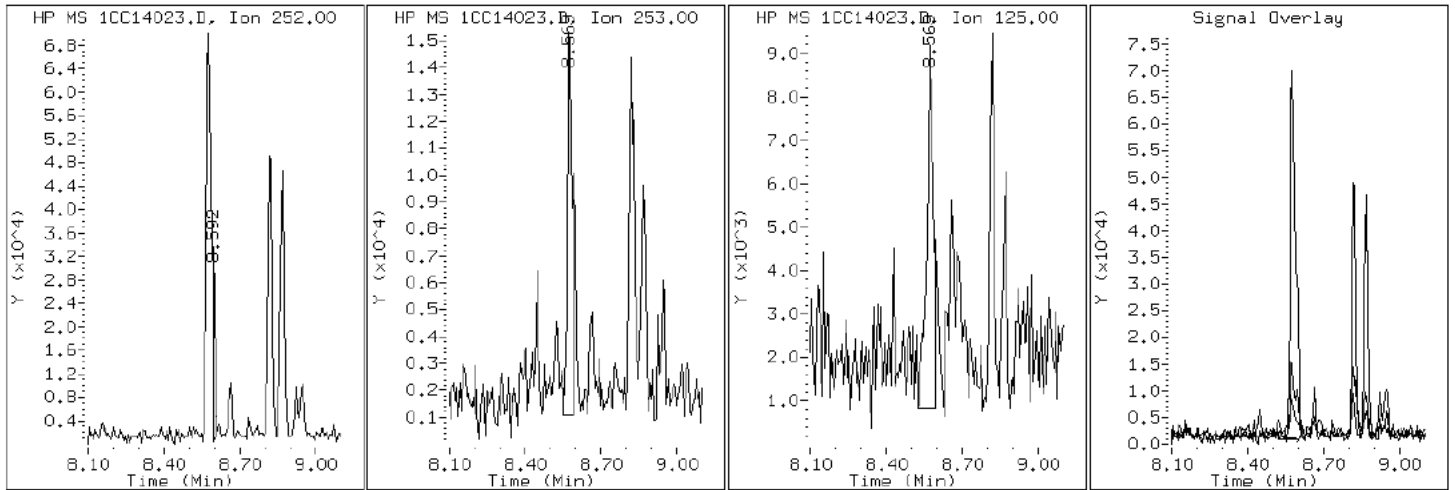
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

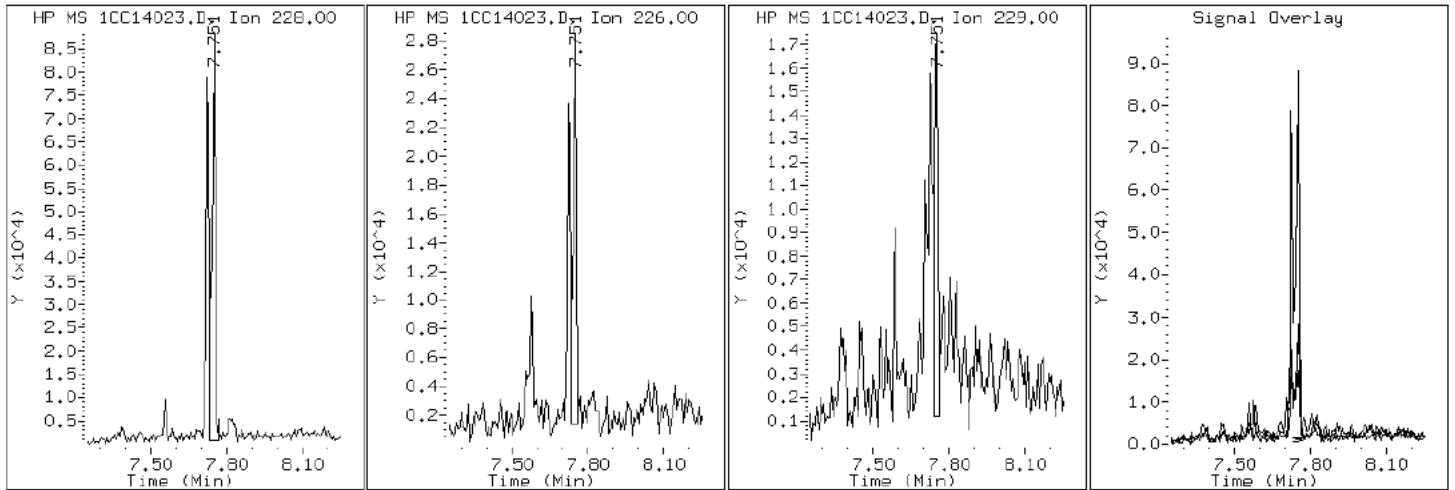
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

19 Chrysene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

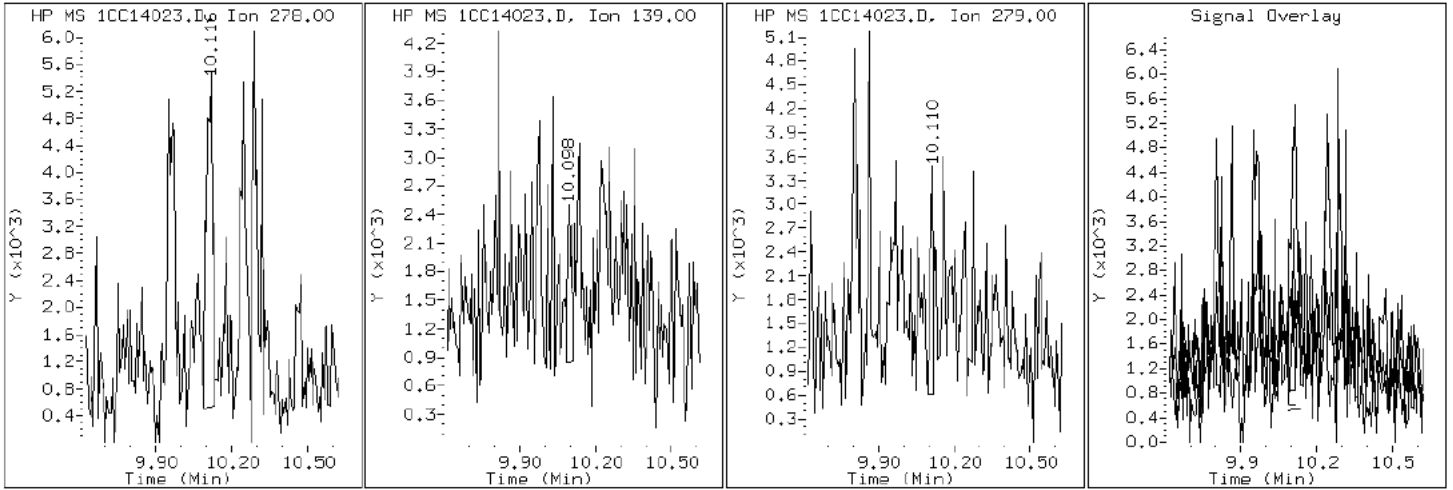
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

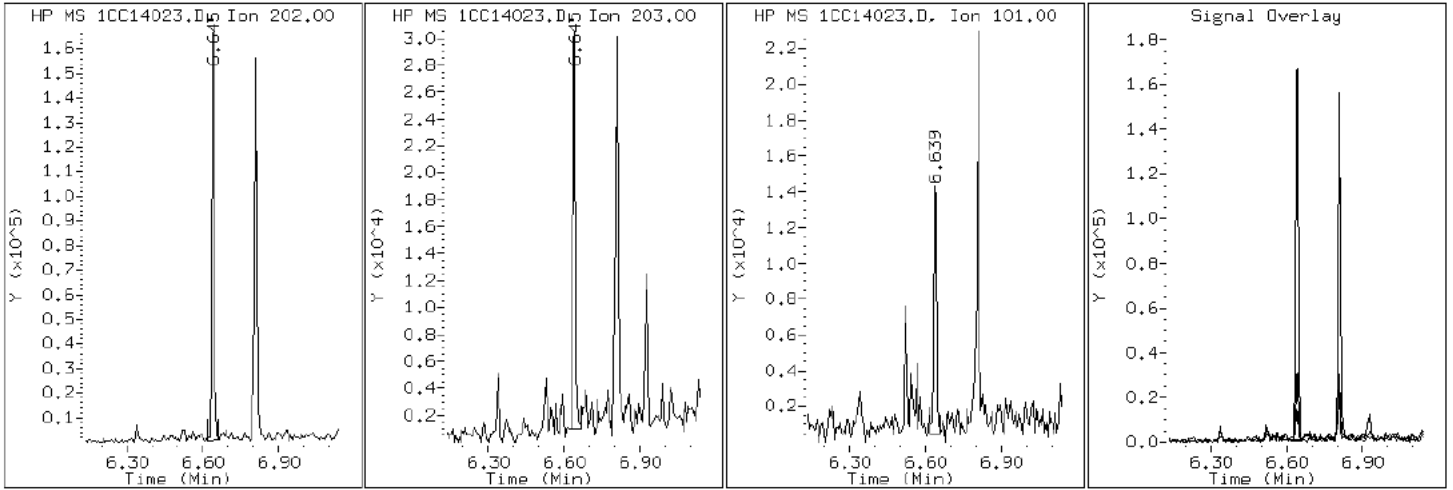
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

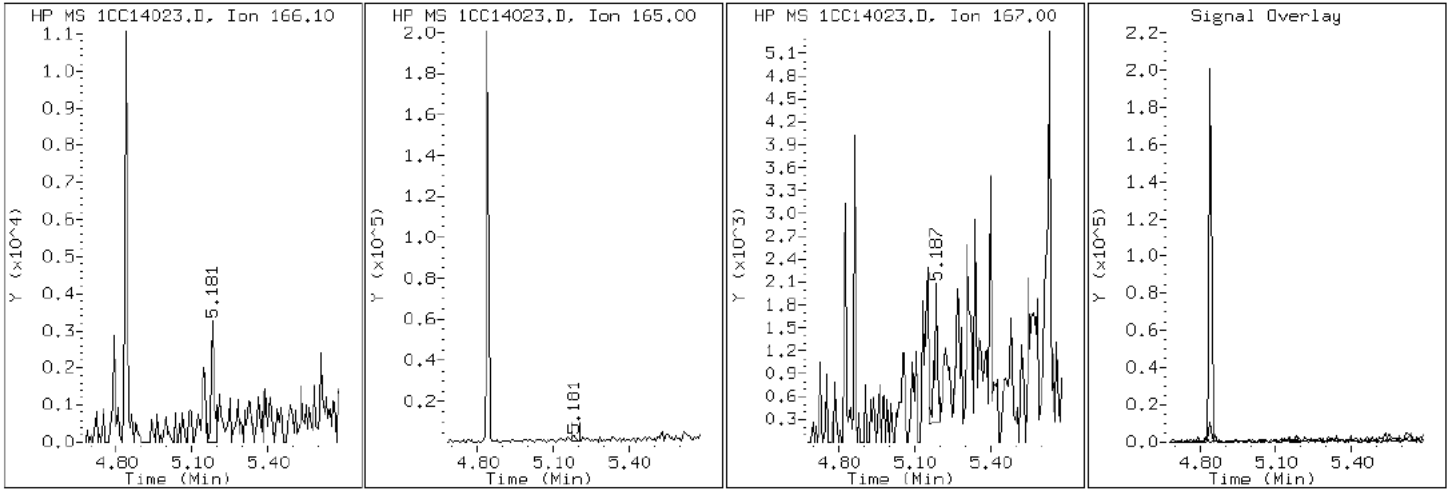
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

9 Fluorene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

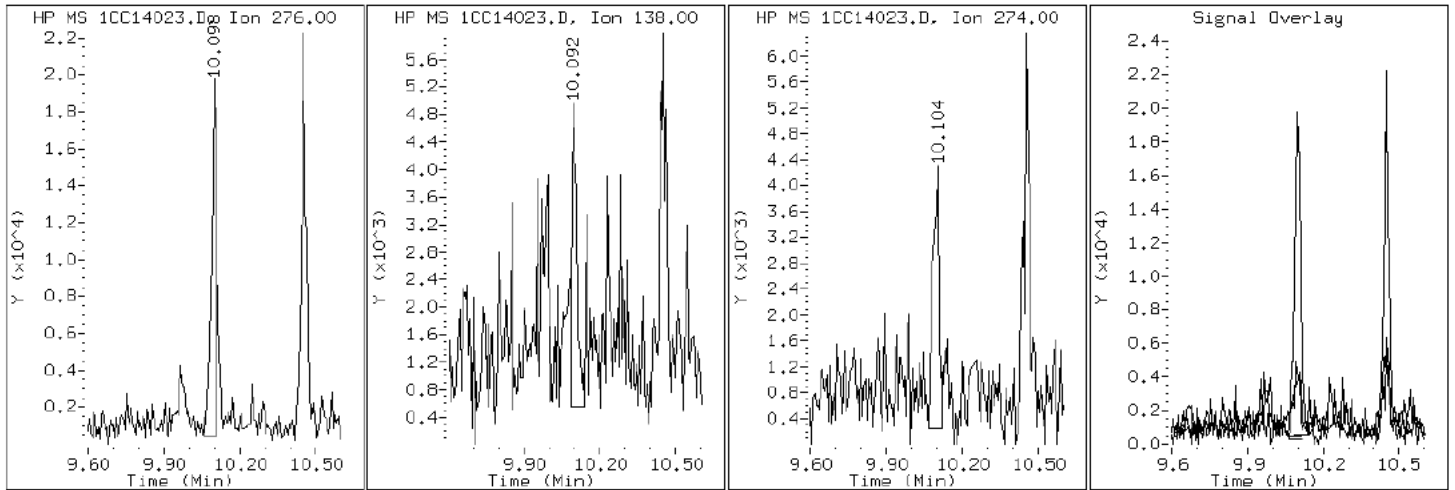
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

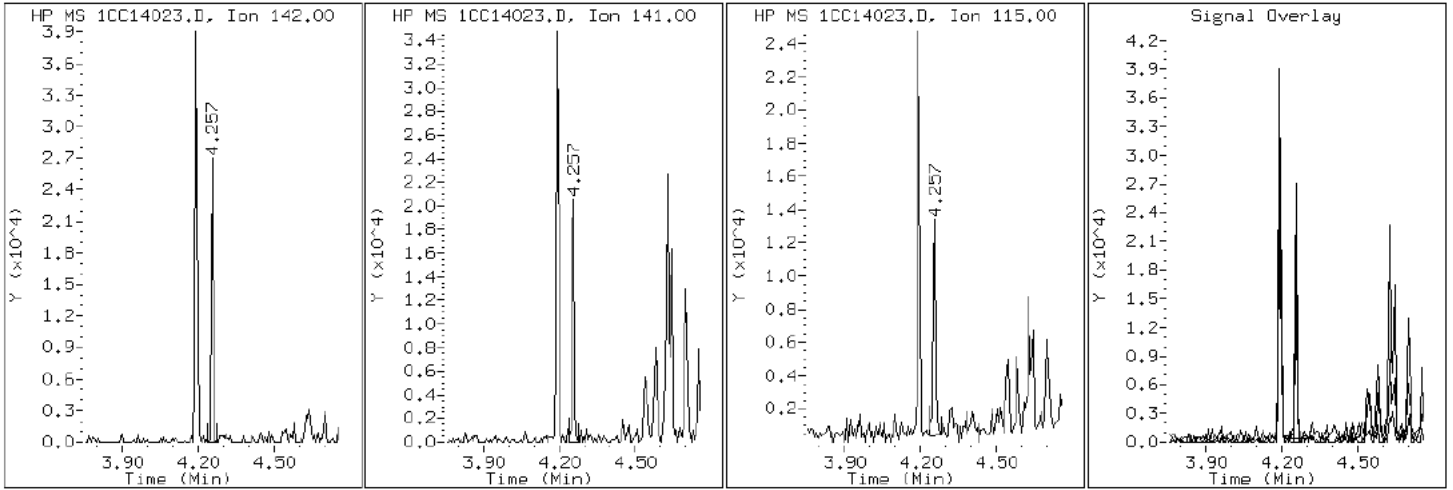
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

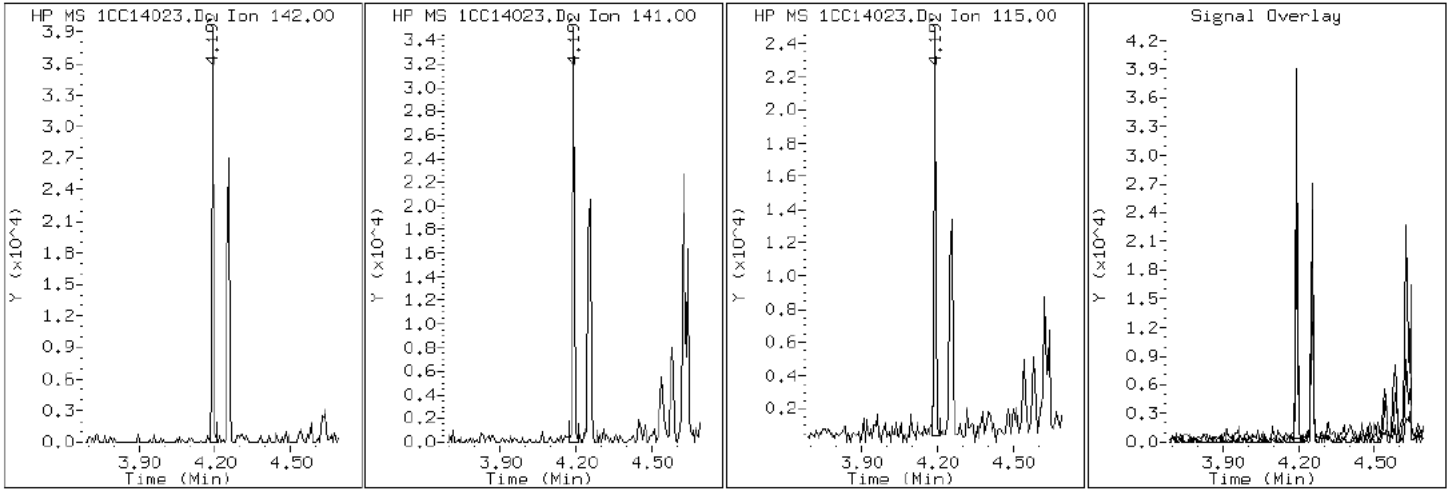
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

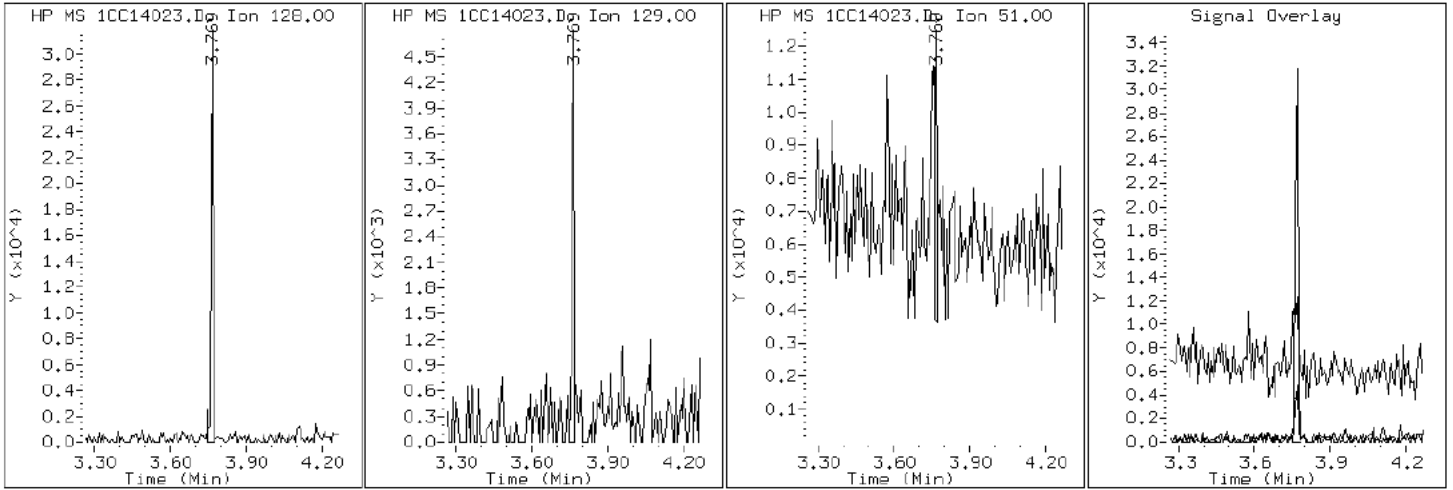
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

2 Naphthalene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

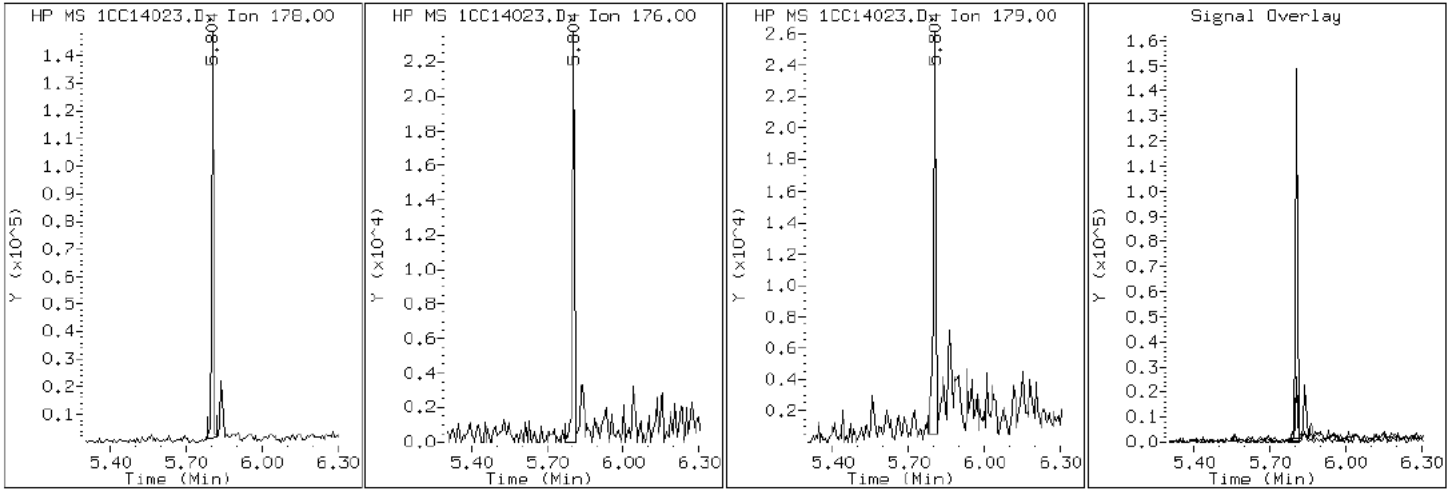
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14023.D

Date: 14-MAR-2013 17:42

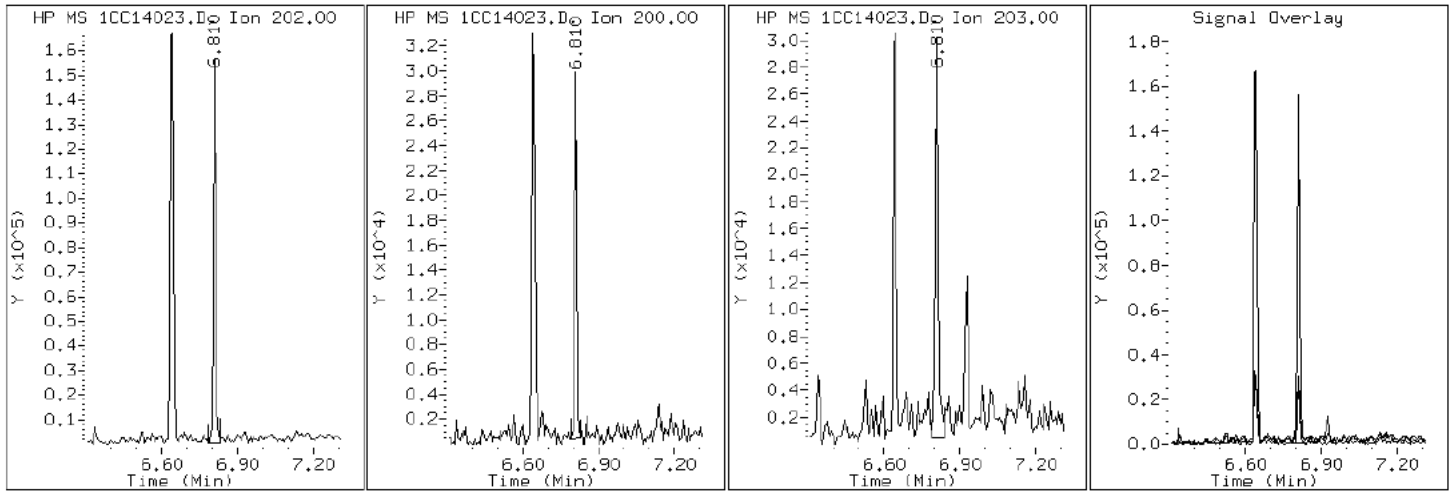
Client ID: CV0632A-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-25-a

Operator: SCC

16 Pyrene

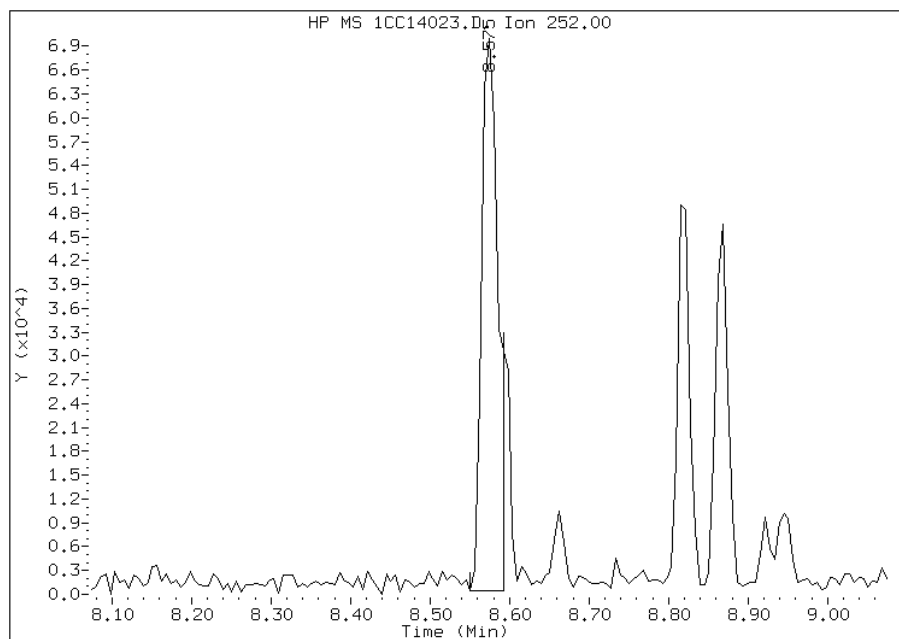


Manual Integration Report

Data File: 1CC14023.D
Inj. Date and Time: 14-MAR-2013 17:42
Instrument ID: BSMC5973.i
Client ID: CV0632A-SP-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

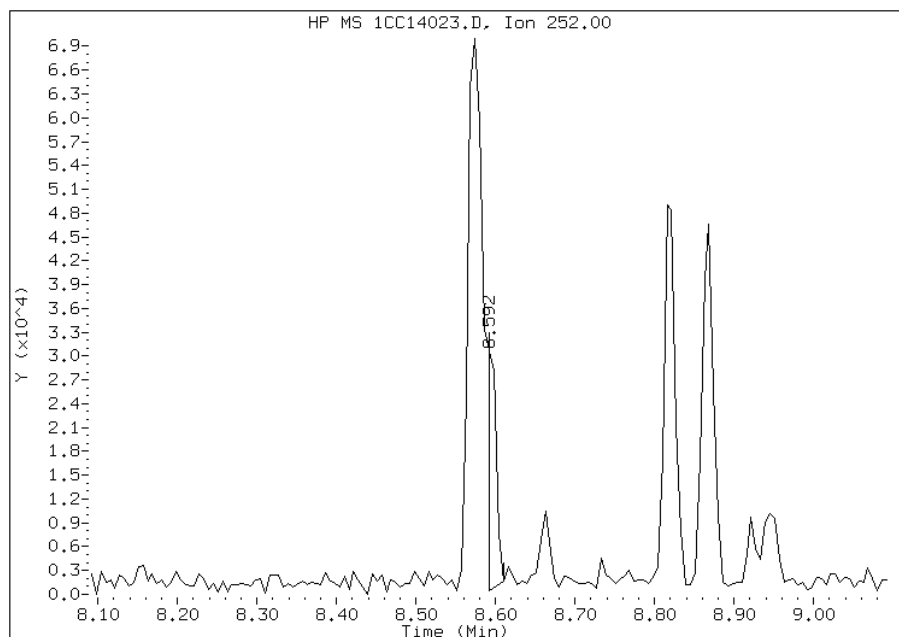
Processing Integration Results

RT: 8.57
Response: 99517
Amount: 2
Conc: 907



Manual Integration Results

RT: 8.59
Response: 22625
Amount: 1
Conc: 206



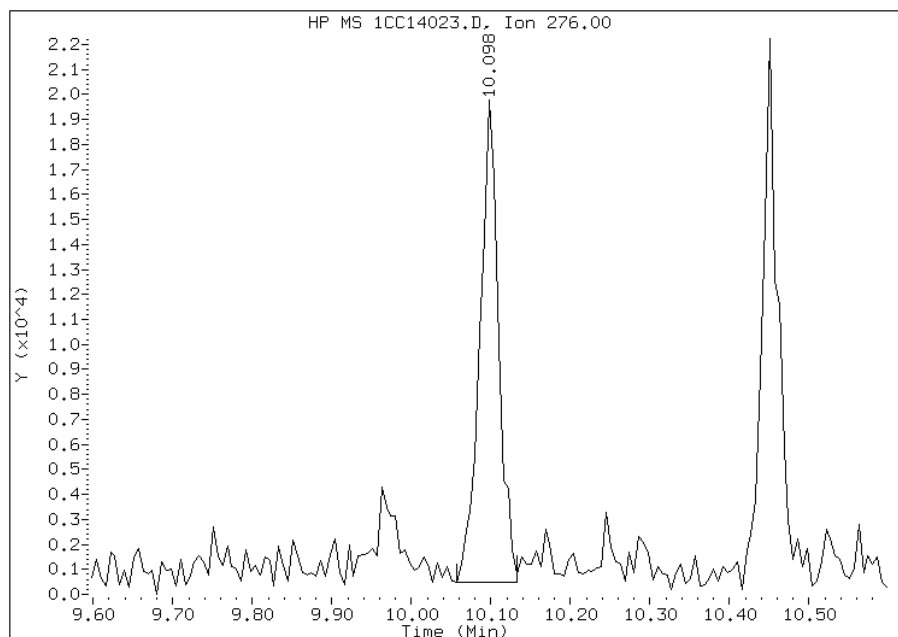
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14023.D
Inj. Date and Time: 14-MAR-2013 17:42
Instrument ID: BSMC5973.i
Client ID: CV0632A-SP-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

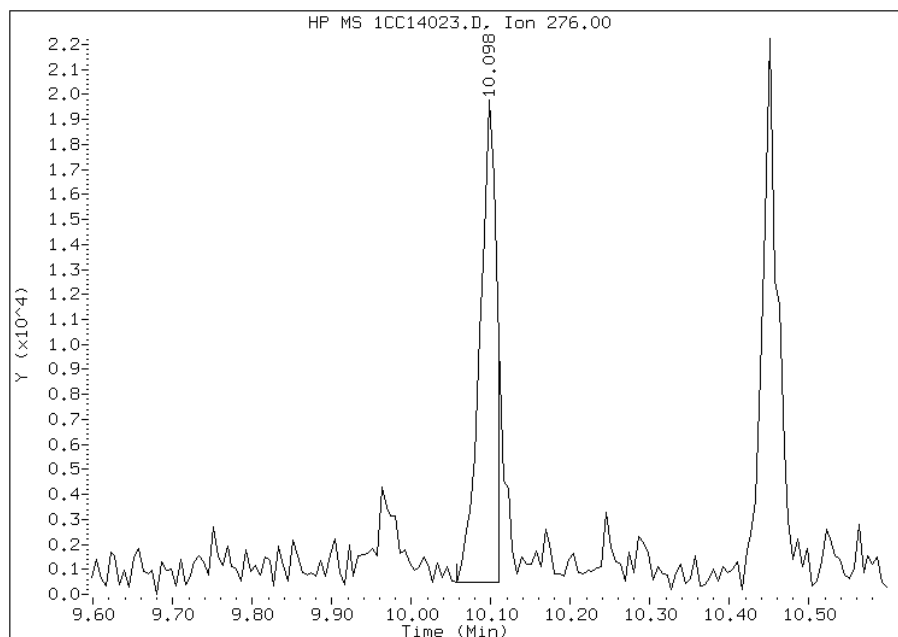
Processing Integration Results

RT: 10.10
Response: 31388
Amount: 1
Conc: 321



Manual Integration Results

RT: 10.10
Response: 28036
Amount: 1
Conc: 287



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 11:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0632B-SP-SP Lab Sample ID: 680-88067-26
 Matrix: Solid Lab File ID: 1CC14024.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 15:45
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.32 (g) Date Analyzed: 03/14/2013 18:01
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 26.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	55	J	210	27
120-12-7	Anthracene	190		45	22
56-55-3	Benzo[a]anthracene	1200		42	21
50-32-8	Benzo[a]pyrene	1100		55	28
205-99-2	Benzo[b]fluoranthene	1800		65	32
191-24-2	Benzo[g,h,i]perylene	690		110	23
207-08-9	Benzo[k]fluoranthene	730		42	19
218-01-9	Chrysene	1300		48	24
53-70-3	Dibenz(a,h)anthracene	230		110	22
206-44-0	Fluoranthene	2000		110	21
86-73-7	Fluorene	55	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	550		110	38
90-12-0	1-Methylnaphthalene	380		210	23
91-57-6	2-Methylnaphthalene	400		210	38
91-20-3	Naphthalene	270		210	23
85-01-8	Phenanthrene	980		42	21
129-00-0	Pyrene	1800		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14024.D
 Lab Smp Id: 680-88067-A-26-A Client Smp ID: CV0632B-SP-SP
 Inj Date : 14-MAR-2013 18:01
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-26-a
 Misc Info : 680-88067-A-26-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 24
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	26.190	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.757	3.757	(1.000)	1010408	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	828901	40.0000		
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1478255	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	34527	1.54697	547.2306	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1599913	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1517802	40.0000		
2 Naphthalene	128		3.768	3.768	(1.003)	19801	0.75275	266.2820	
3 2-Methylnaphthalene	142		4.192	4.192	(1.116)	19733	1.12462	397.8263	
4 1-Methylnaphthalene	142		4.257	4.257	(1.133)	17095	1.06974	378.4123	
5 Acenaphthylene	152		4.751	4.751	(0.982)	5226	0.15638	55.3183	
9 Fluorene	166		5.180	5.180	(1.070)	4076	0.15516	54.8873(Q)	
11 Phenanthrene	178		5.804	5.804	(1.002)	118623	2.77516	981.6947	
12 Anthracene	178		5.839	5.839	(1.008)	22319	0.53390	188.8627	
13 Carbazole	167		5.945	5.945	(1.026)	15800	0.42518	150.4045	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.146)	267197	5.70806	2019.1894
16 Pyrene	202	6.809	6.809	(0.881)	222086	5.16535	1827.2097
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	152695	3.30676	1169.7468
19 Chrysene	228	7.750	7.751	(1.002)	173149	3.74690	1325.4427
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	206070	5.19515	1837.7537(M)
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	84205	2.06938	732.0298(M)
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	117203	3.04198	1076.0824
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.132)	56580	1.56107	552.2183(M)
25 Dibenzo(a,h)anthracene	278	10.109	10.121	(1.133)	22741	0.64146	226.9113
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	74029	1.95251	690.6900

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC14024.D

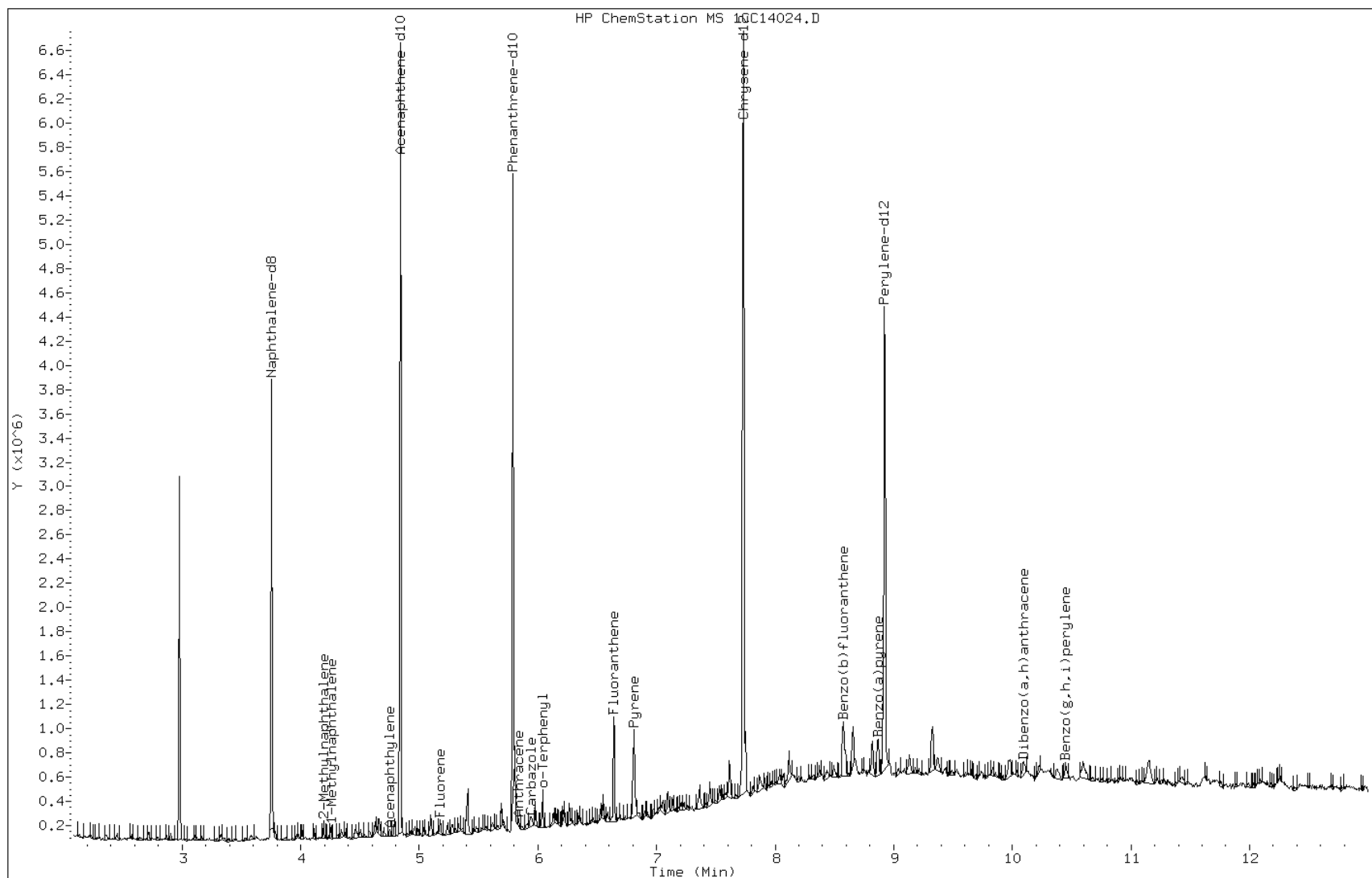
Date: 14-MAR-2013 18:01

Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

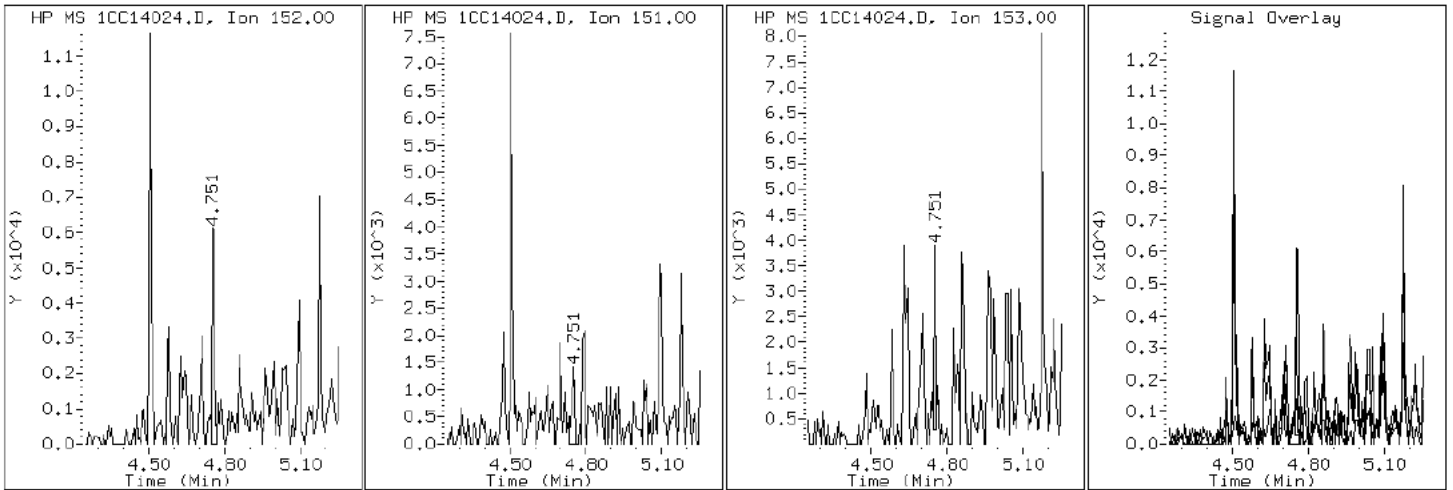
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

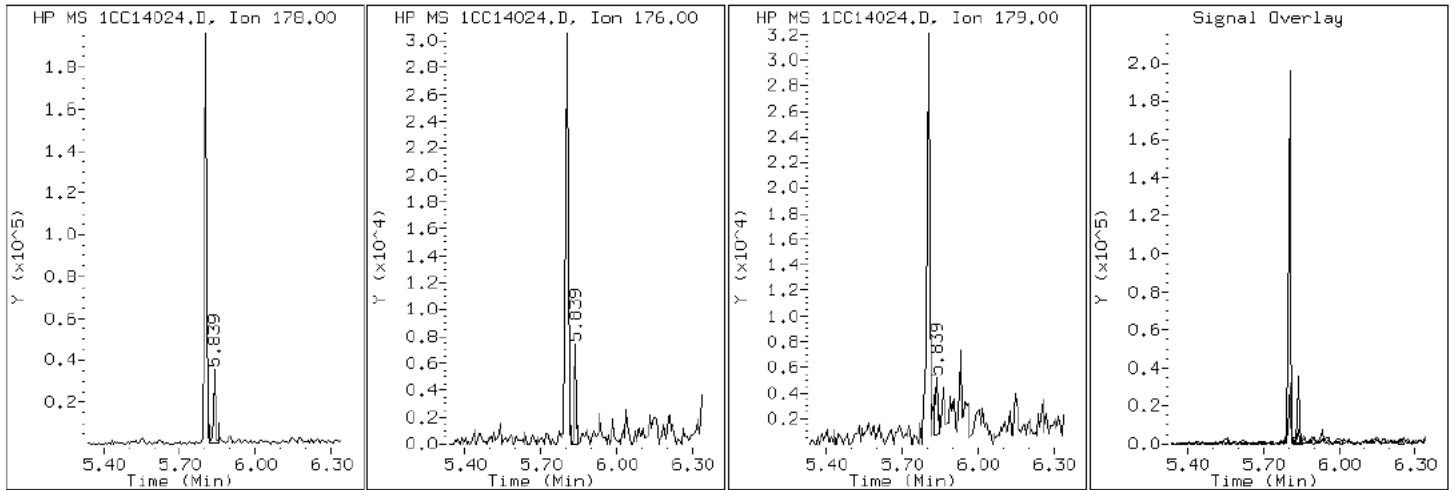
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

12 Anthracene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

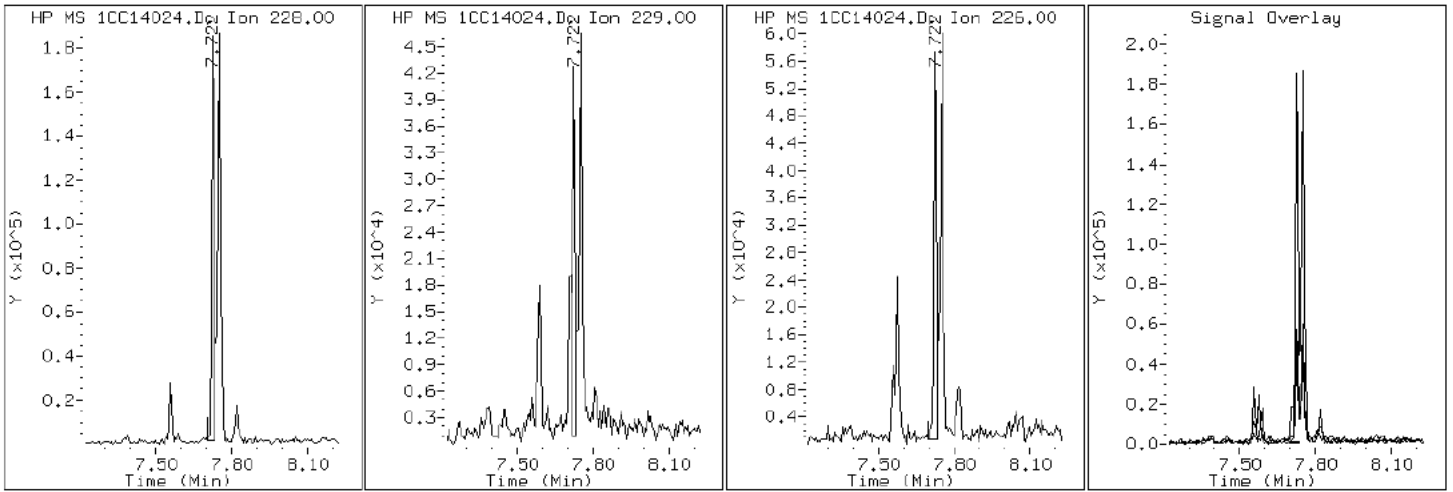
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

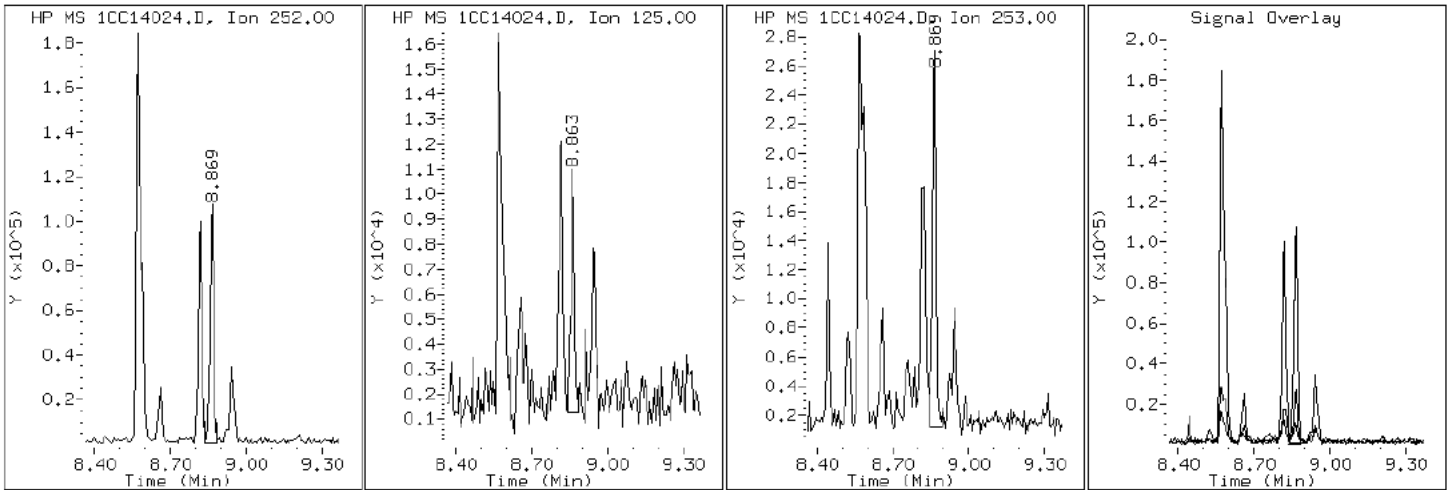
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

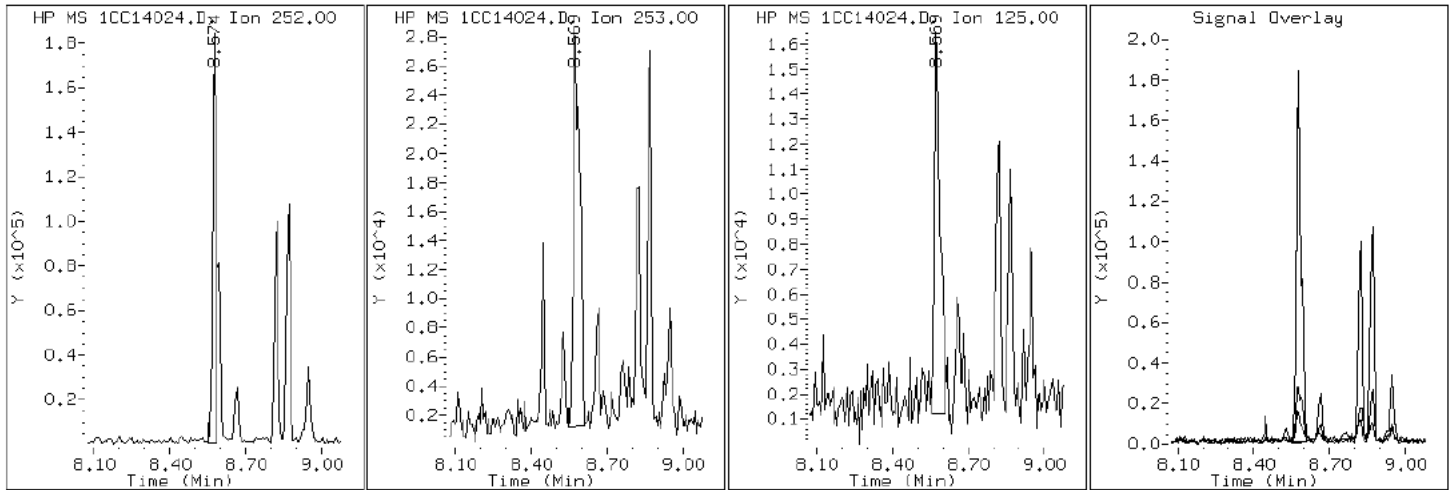
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

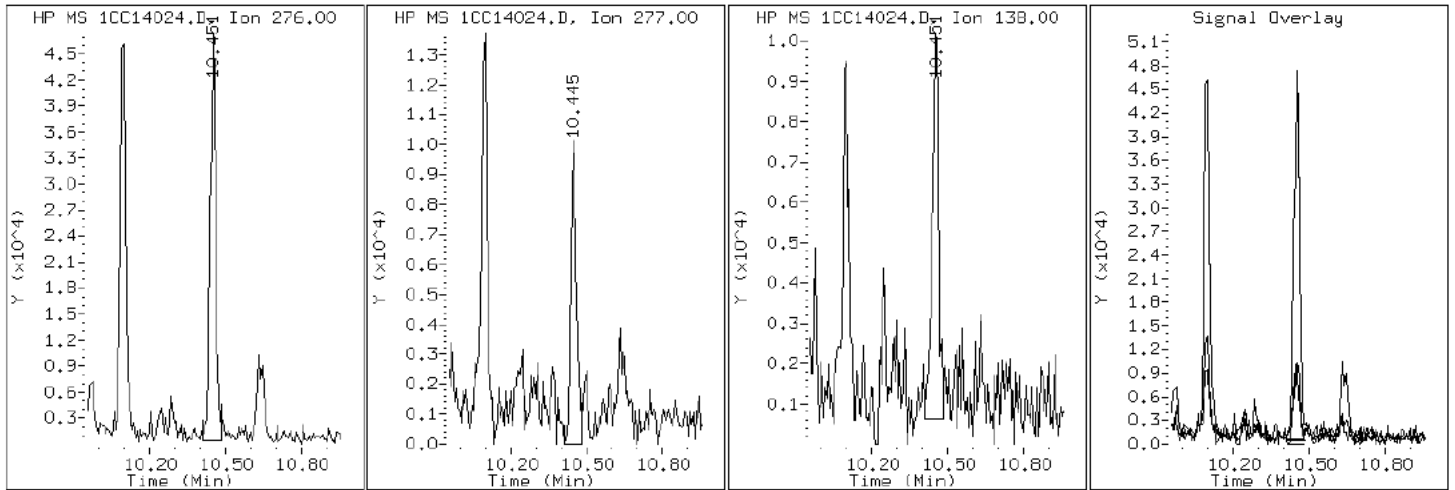
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

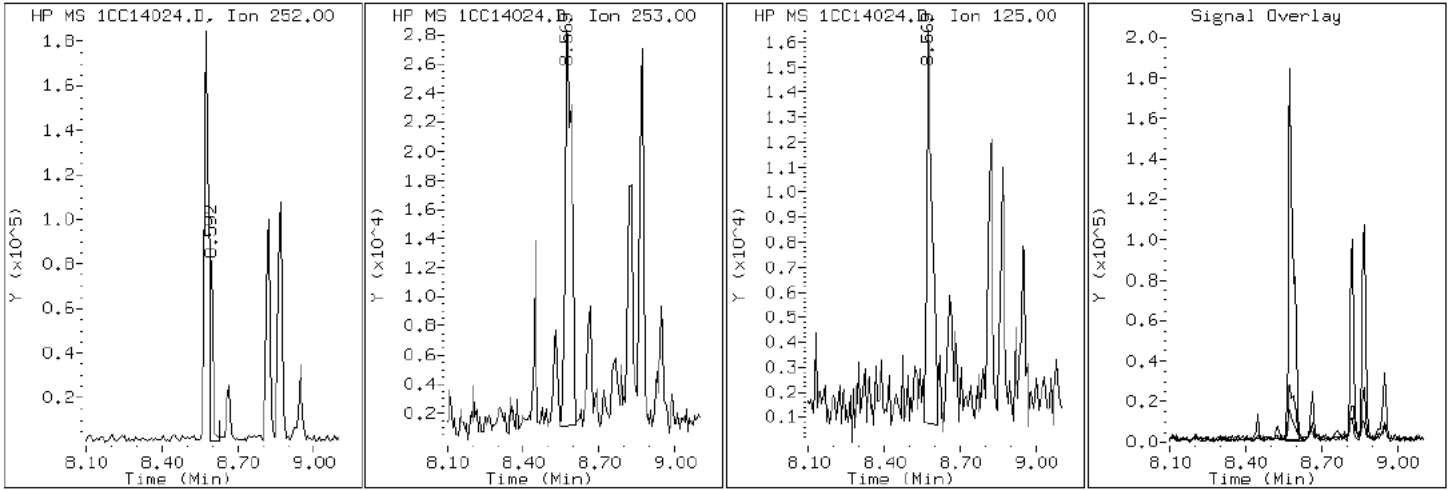
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

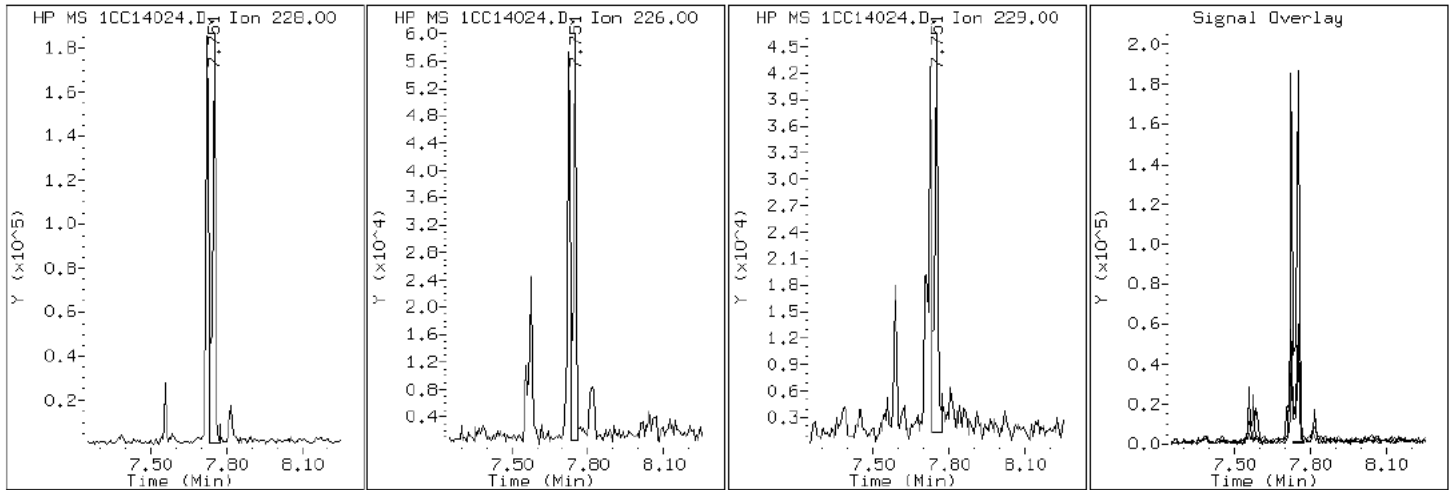
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

19 Chrysene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

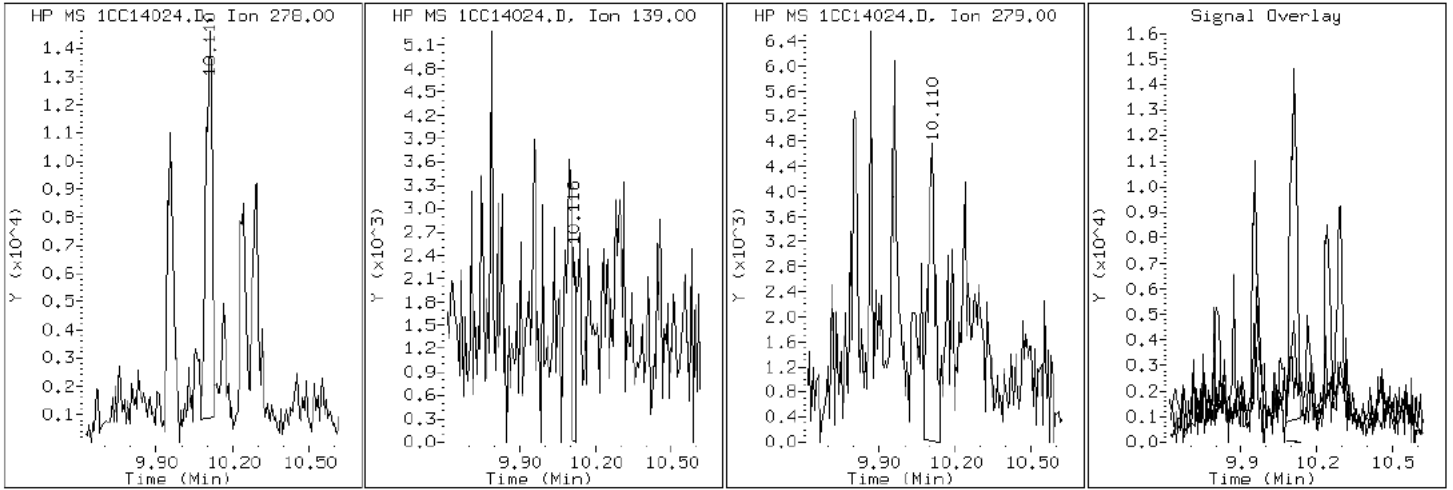
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

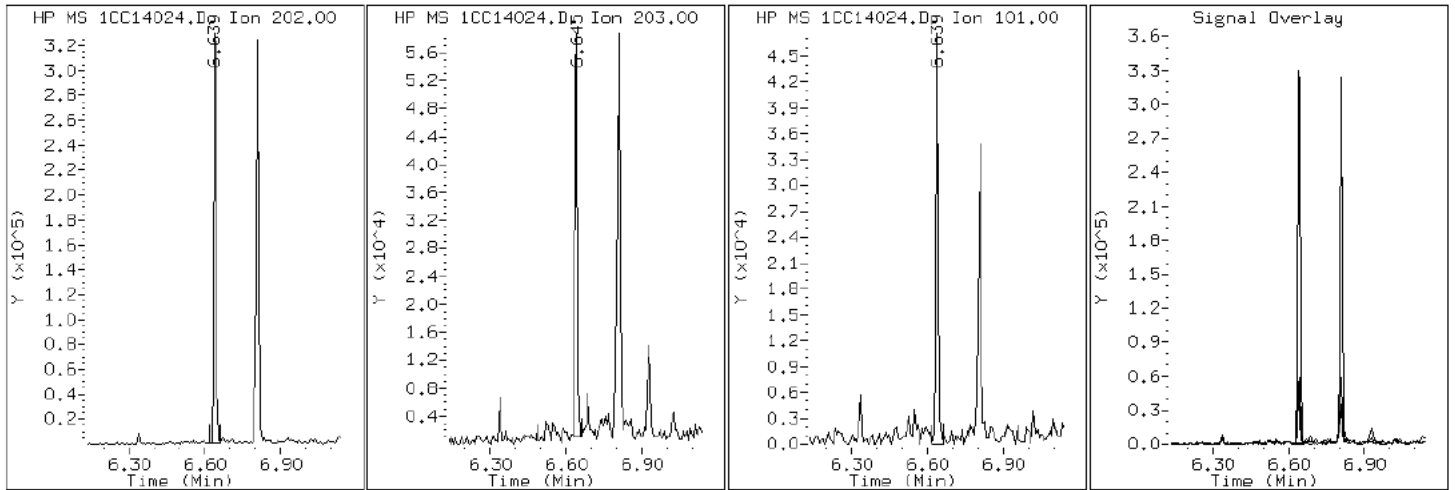
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

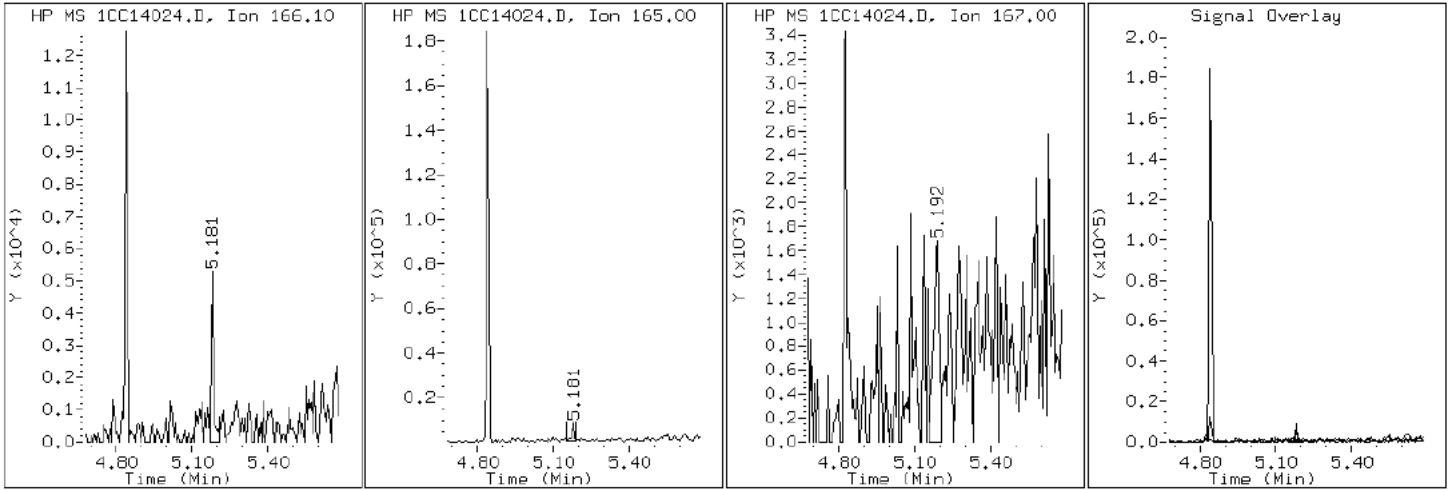
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

9 Fluorene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

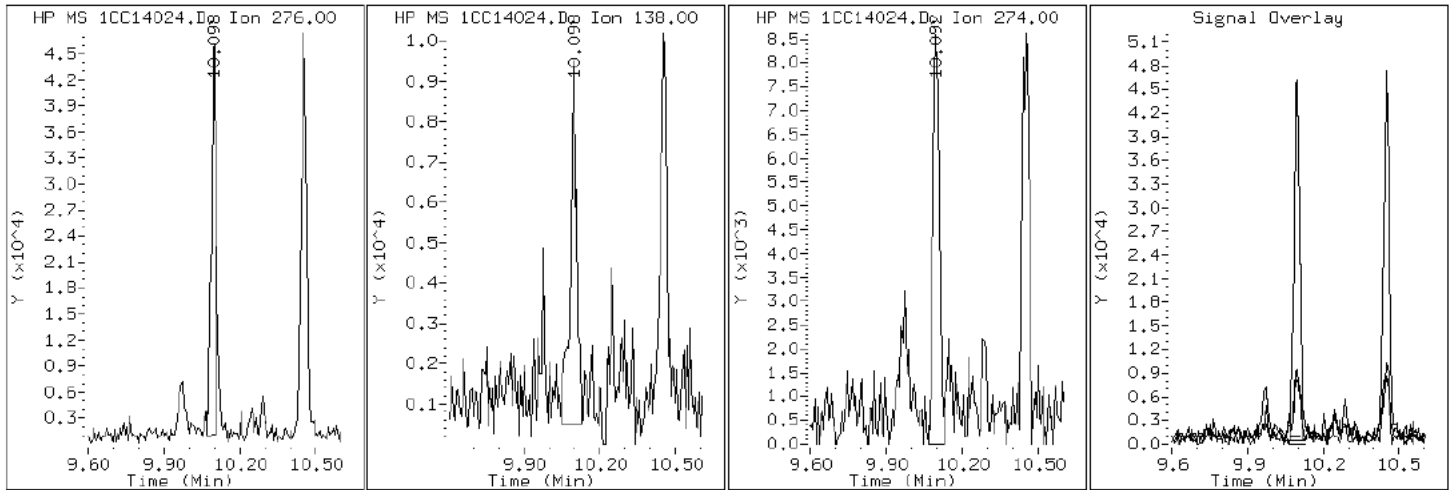
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

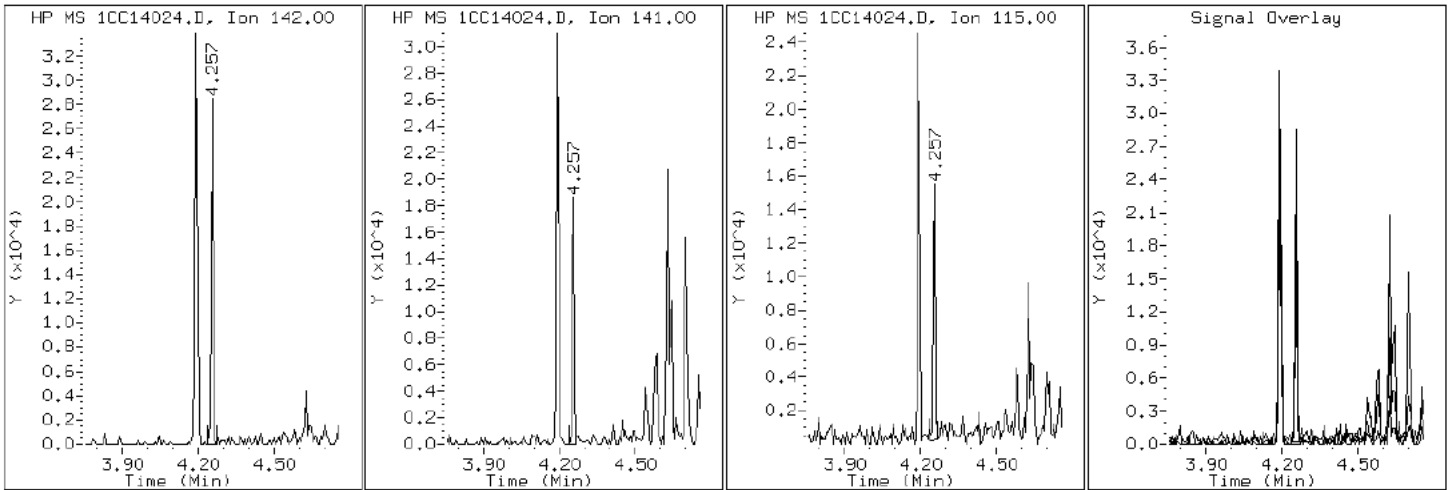
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

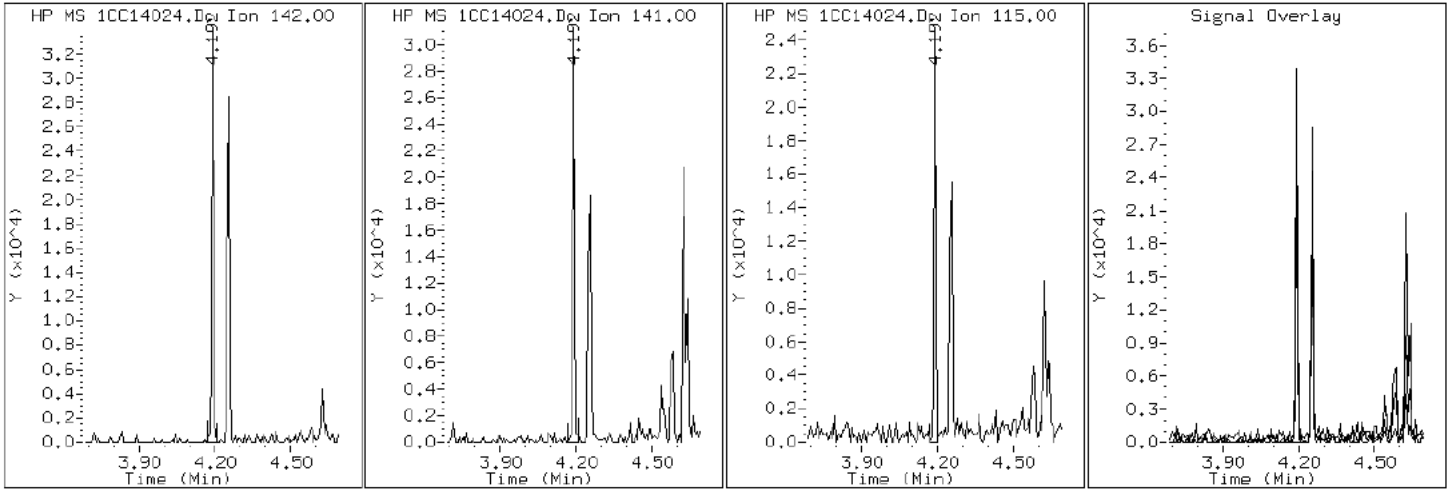
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

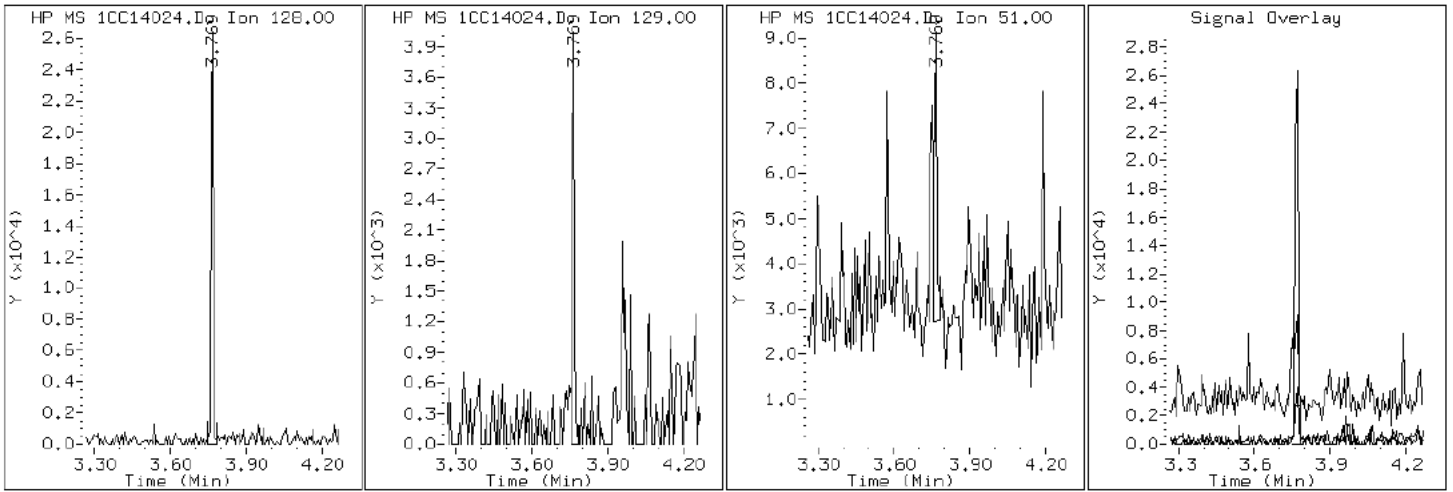
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

2 Naphthalene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

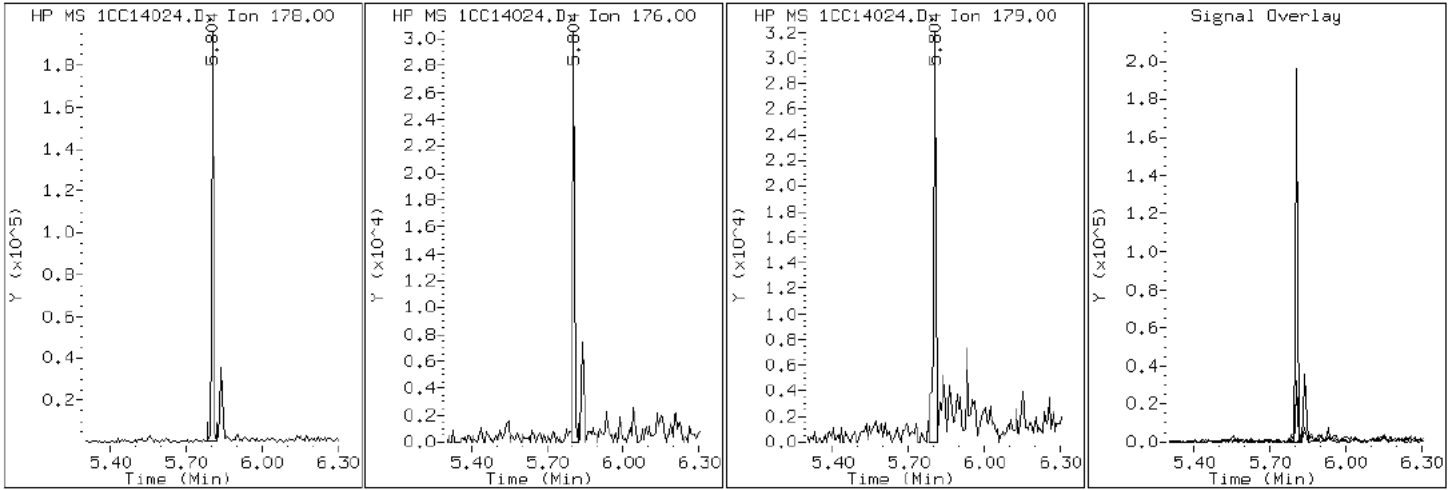
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14024.D

Date: 14-MAR-2013 18:01

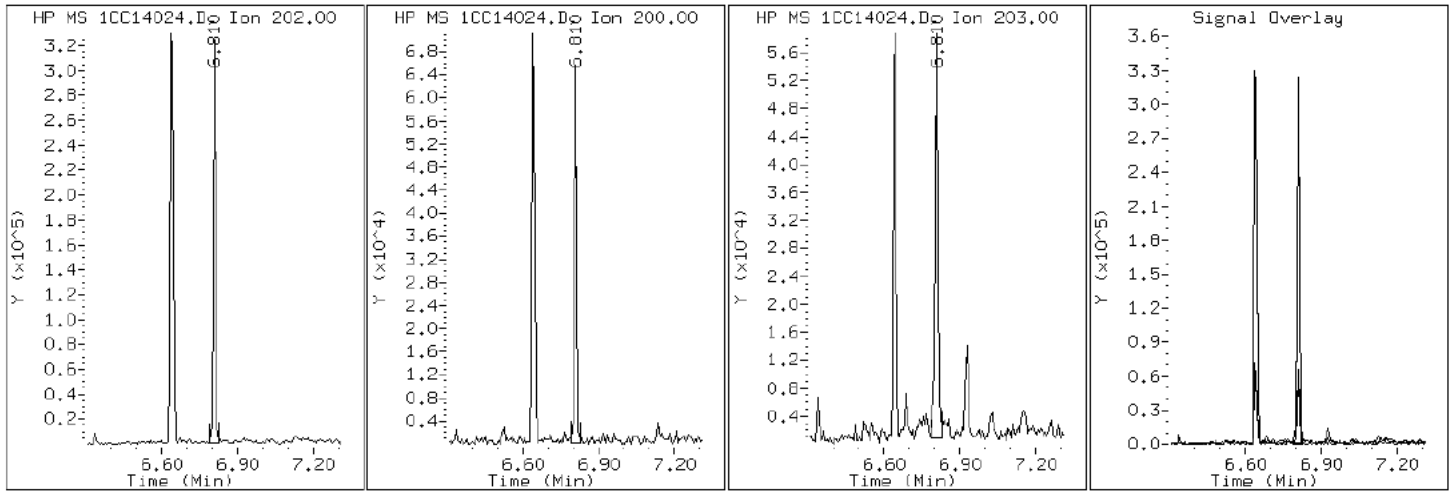
Client ID: CV0632B-SP-SP

Instrument: BSMC5973.i

Sample Info: 680-88067-a-26-a

Operator: SCC

16 Pyrene

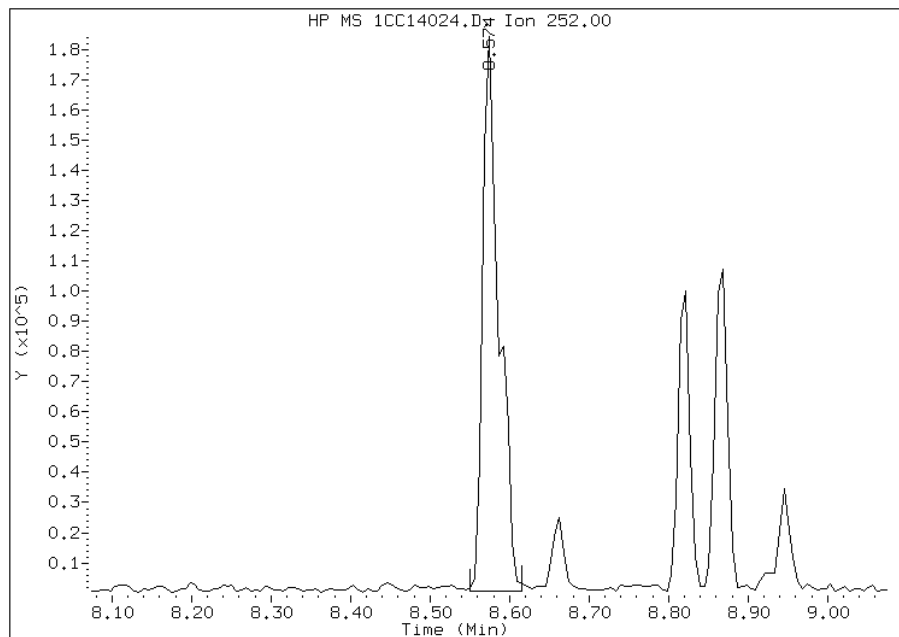


Manual Integration Report

Data File: 1CC14024.D
Inj. Date and Time: 14-MAR-2013 18:01
Instrument ID: BSMC5973.i
Client ID: CV0632B-SP-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

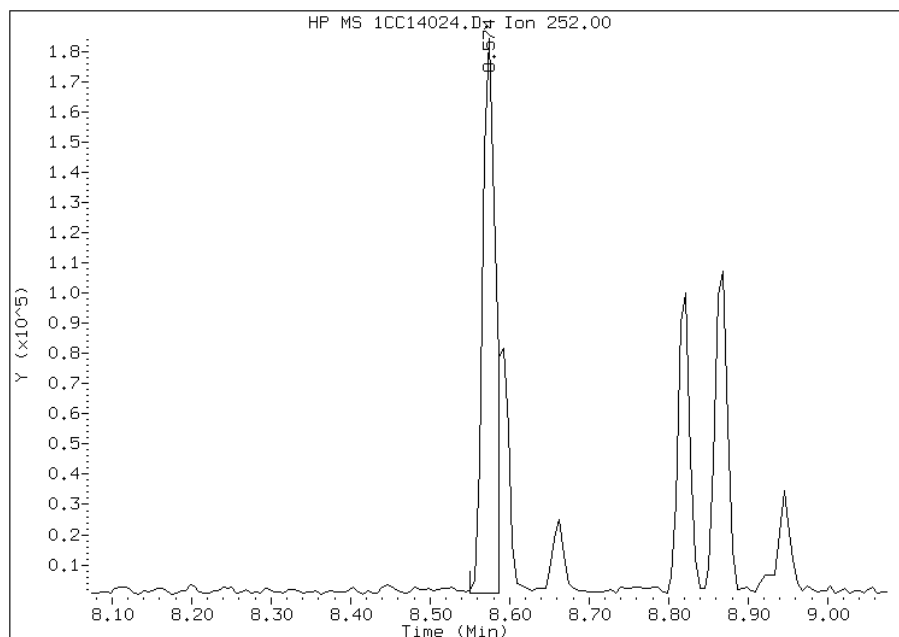
Processing Integration Results

RT: 8.57
Response: 261488
Amount: 7
Conc: 2332



Manual Integration Results

RT: 8.57
Response: 206070
Amount: 5
Conc: 1838



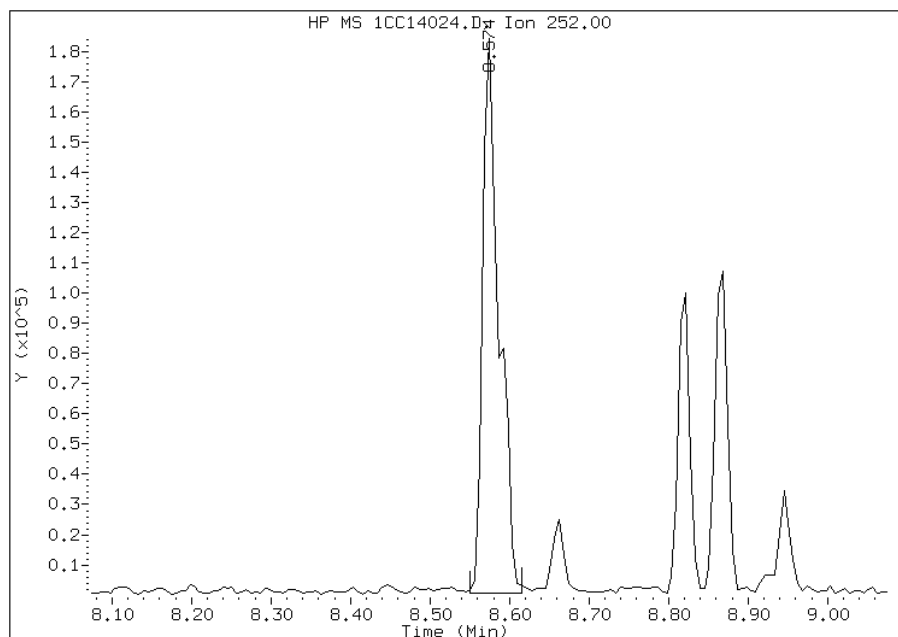
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14024.D
Inj. Date and Time: 14-MAR-2013 18:01
Instrument ID: BSMC5973.i
Client ID: CV0632B-SP-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

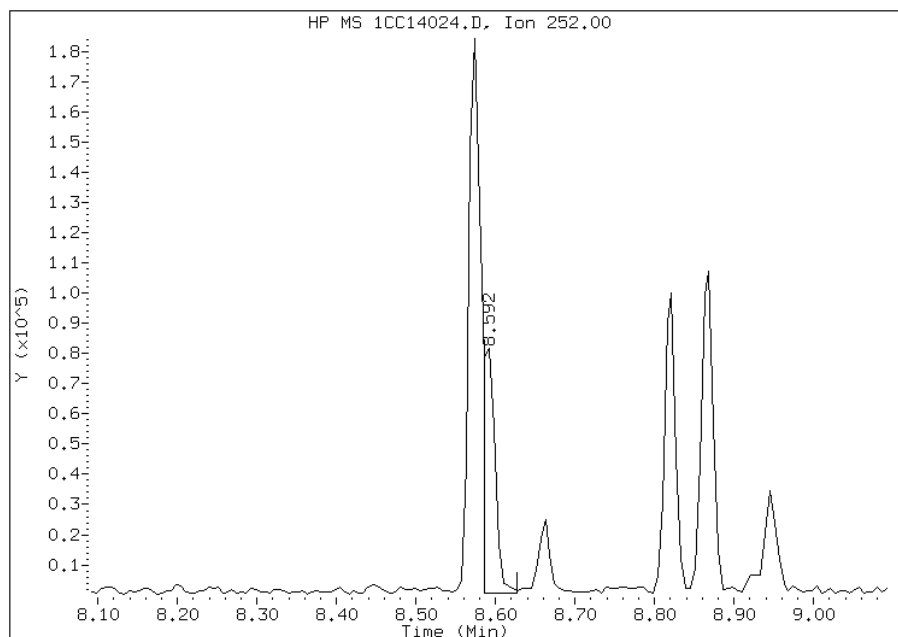
Processing Integration Results

RT: 8.57
Response: 262081
Amount: 6
Conc: 2278



Manual Integration Results

RT: 8.59
Response: 84205
Amount: 2
Conc: 732



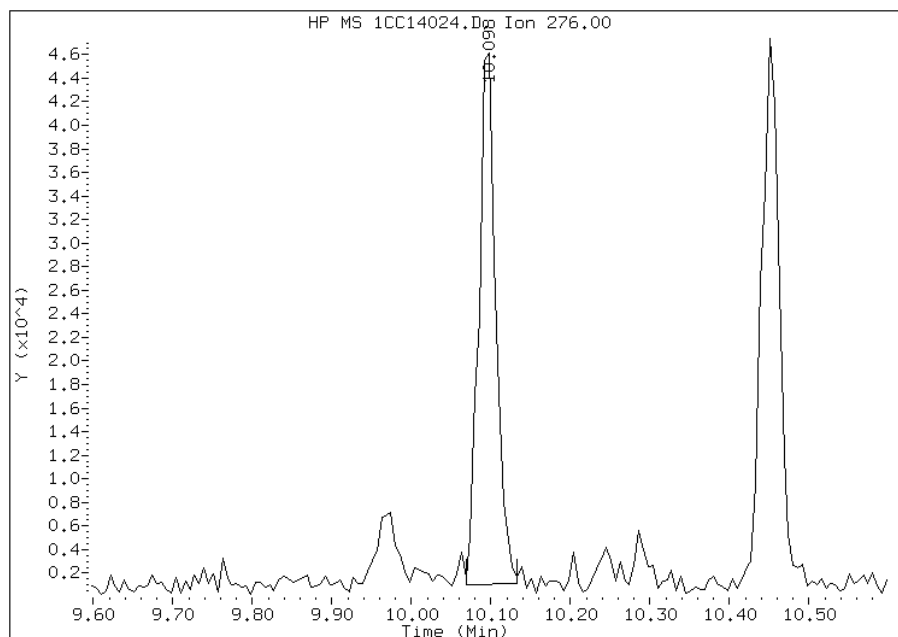
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14024.D
Inj. Date and Time: 14-MAR-2013 18:01
Instrument ID: BSMC5973.i
Client ID: CV0632B-SP-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

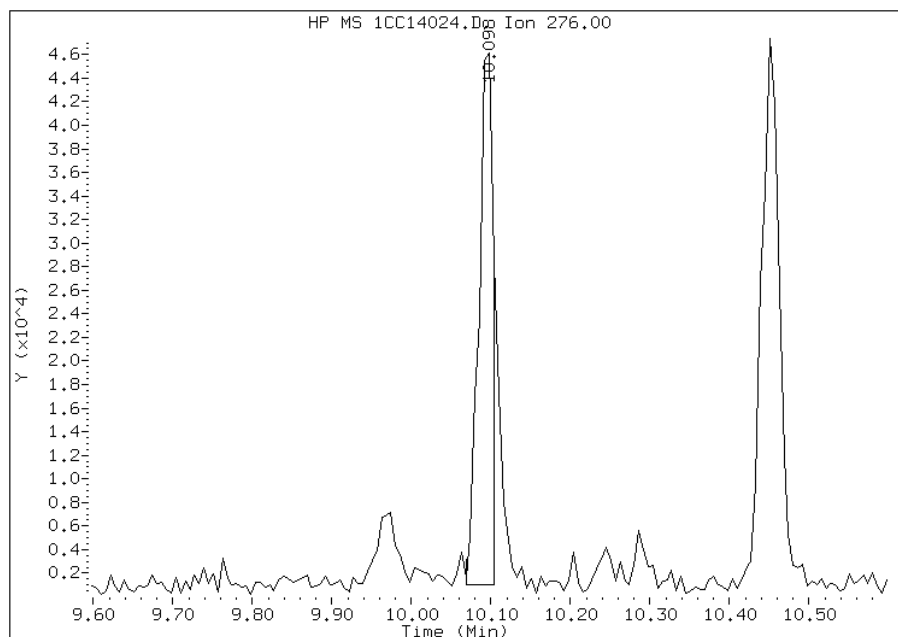
Processing Integration Results

RT: 10.10
Response: 66711
Amount: 2
Conc: 651



Manual Integration Results

RT: 10.10
Response: 56580
Amount: 2
Conc: 552



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: HP0199A-CS Lab Sample ID: 680-88067-27
 Matrix: Solid Lab File ID: 1CC14025.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 15:40
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 14.91(g) Date Analyzed: 03/14/2013 18:19
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 35.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	62	U	62	7.7
120-12-7	Anthracene	13	U	13	6.5
56-55-3	Benzo[a]anthracene	25		12	6.0
50-32-8	Benzo[a]pyrene	16		16	8.0
205-99-2	Benzo[b]fluoranthene	22		19	9.4
191-24-2	Benzo[g,h,i]perylene	19	J	31	6.8
207-08-9	Benzo[k]fluoranthene	16		12	5.6
218-01-9	Chrysene	35		14	7.0
53-70-3	Dibenz(a,h)anthracene	31	U	31	6.3
206-44-0	Fluoranthene	29	J	31	6.2
86-73-7	Fluorene	31	U	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	31	U	31	11
90-12-0	1-Methylnaphthalene	10	J	62	6.8
91-57-6	2-Methylnaphthalene	13	J	62	11
91-20-3	Naphthalene	18	J	62	6.8
85-01-8	Phenanthrene	26		12	6.0
129-00-0	Pyrene	27	J	31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14025.D
 Lab Smp Id: 680-88067-A-27-A Client Smp ID: HP0199A-CS
 Inj Date : 14-MAR-2013 18:19
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-27-a
 Misc Info : 680-88067-A-27-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	34.959	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	1034249	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	831904	40.0000	
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1487017	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	156022	6.94931	716.6043
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1584960	40.0000	
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1509366	40.0000	
2 Naphthalene	128		3.769	3.768	(1.005)	4600	0.17084	17.6170(Q)
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	2223	0.12377	12.7632
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	1663	0.10166	10.4835
11 Phenanthrene	178		5.804	5.804	(1.002)	10699	0.24883	25.6585
15 Fluoranthene	202		6.639	6.639	(1.146)	13016	0.27642	28.5039
16 Pyrene	202		6.809	6.809	(0.881)	11113	0.26091	26.9045
17 Benzo(a)anthracene	228		7.727	7.721	(0.999)	11106	0.24278	25.0352
19 Chrysene	228		7.751	7.751	(1.002)	15530	0.33924	34.9815

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	8559	0.21698	22.3750
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	6186	0.15287	15.7641
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	6106	0.15937	16.4336
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	6848	0.18163	18.7289(M)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC14025.D

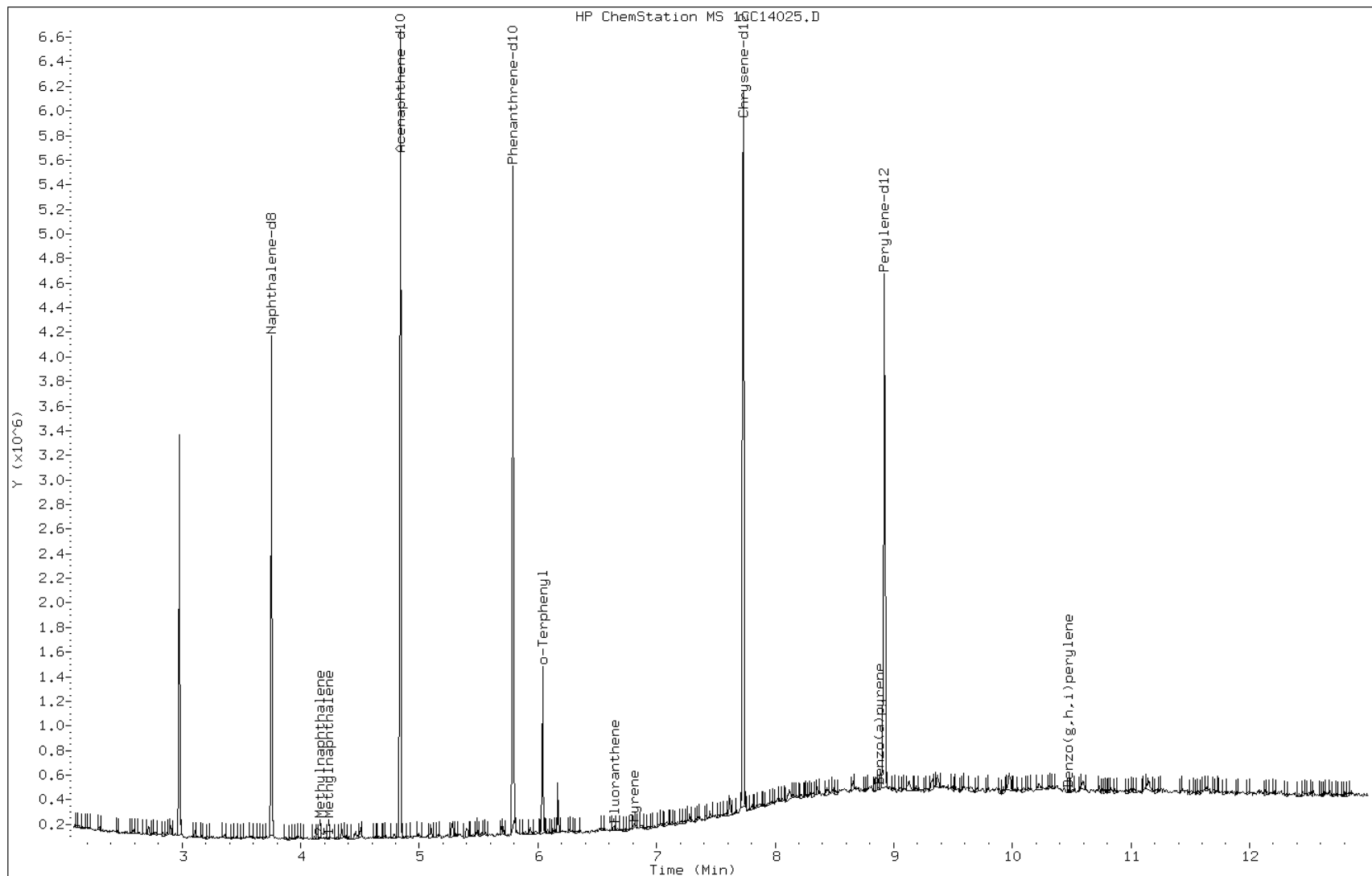
Date: 14-MAR-2013 18:19

Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

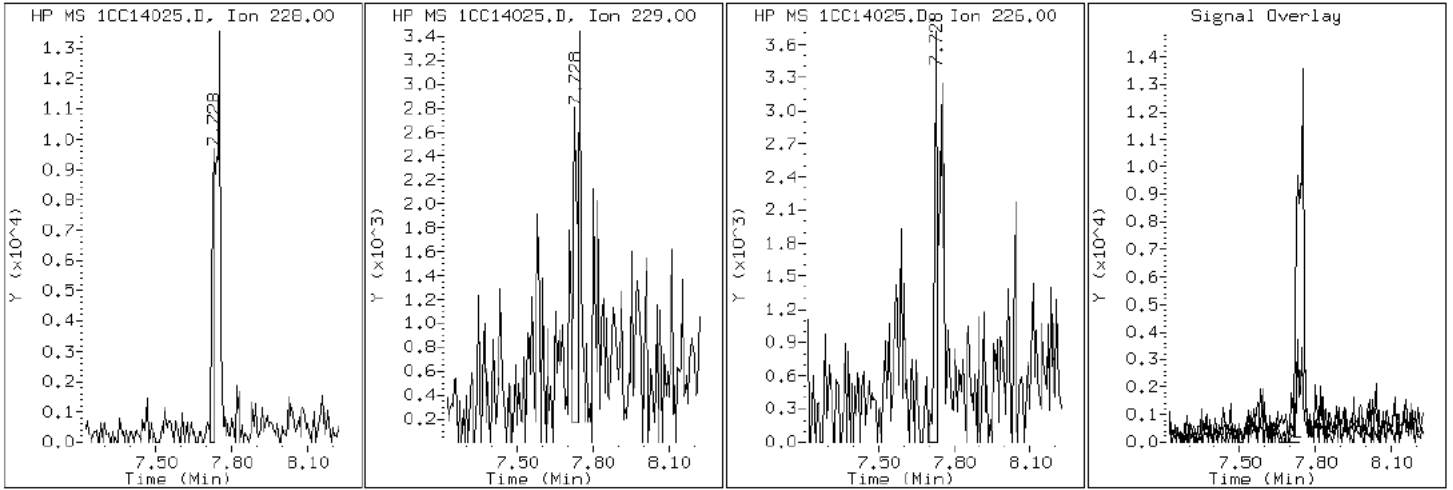
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

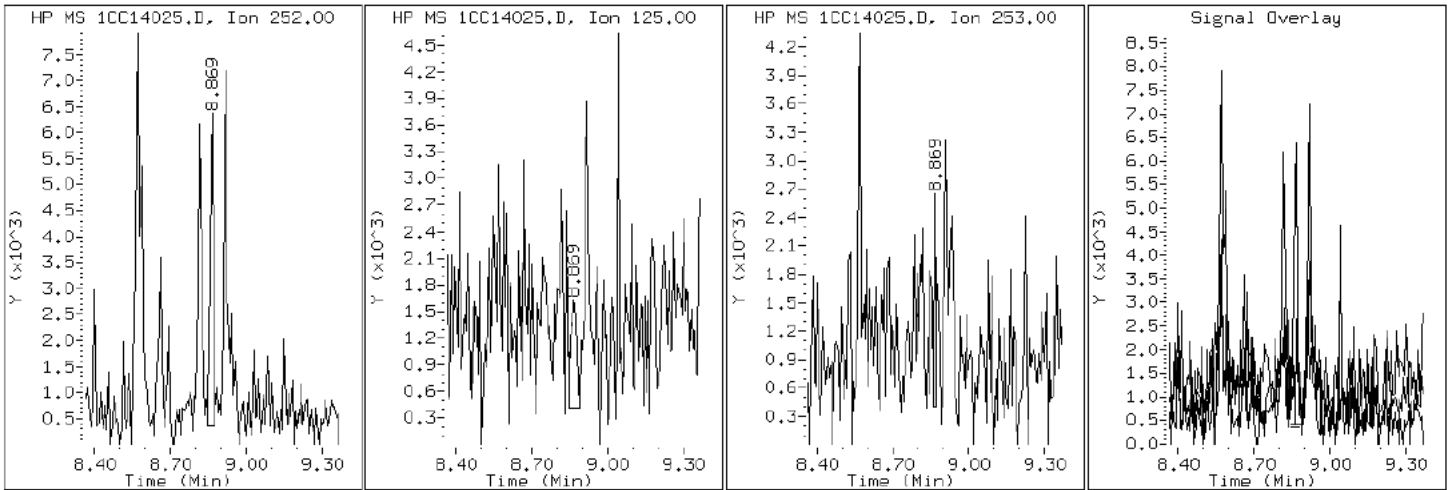
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

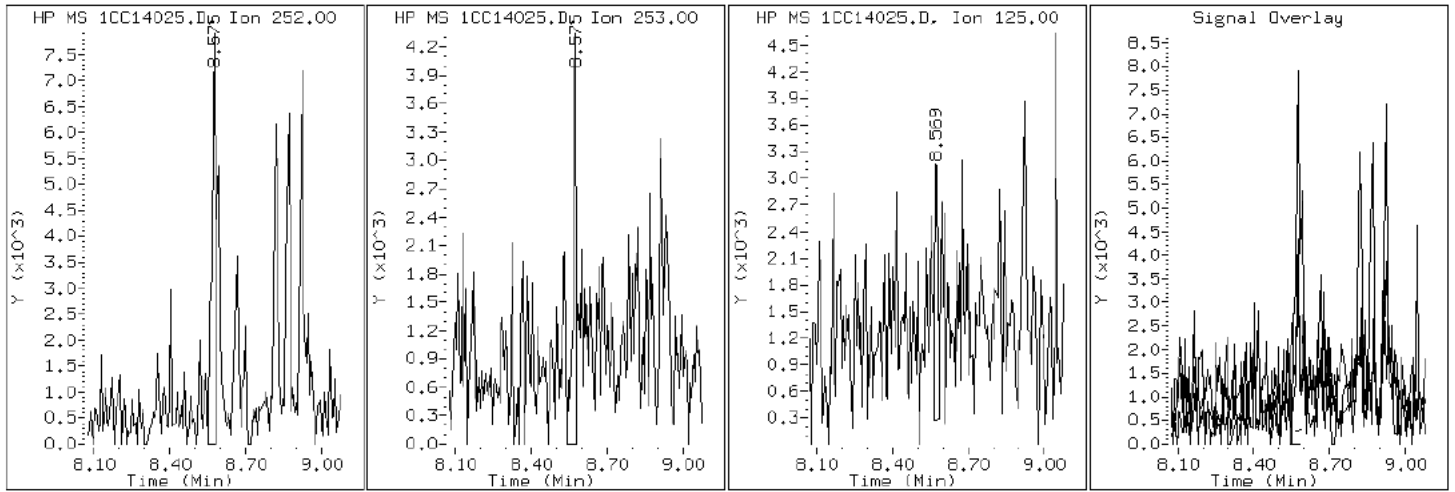
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

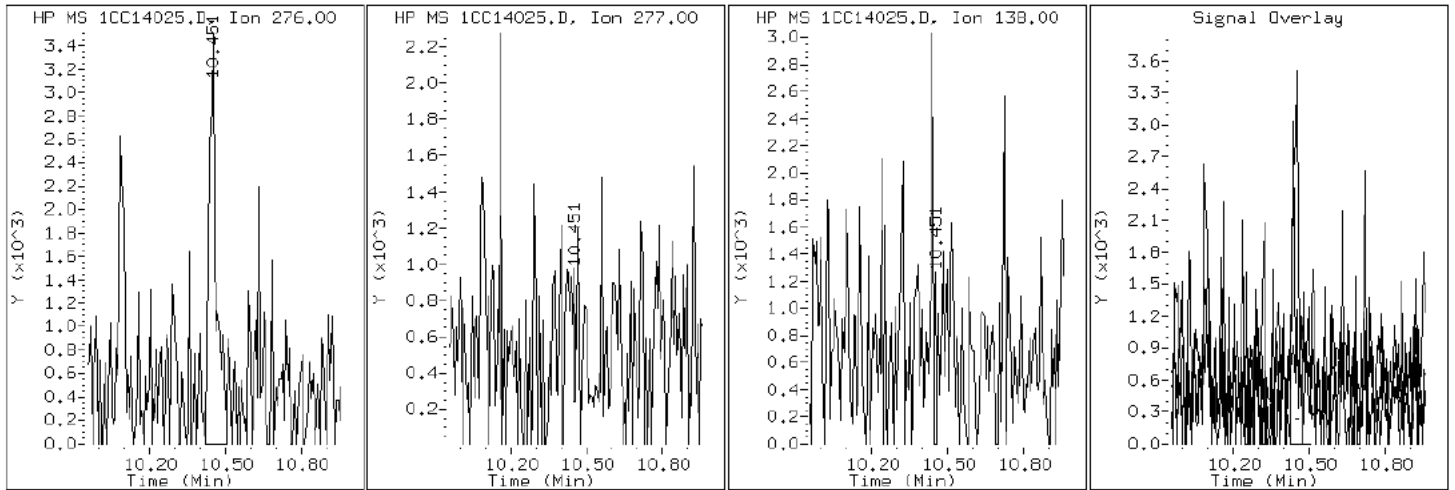
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

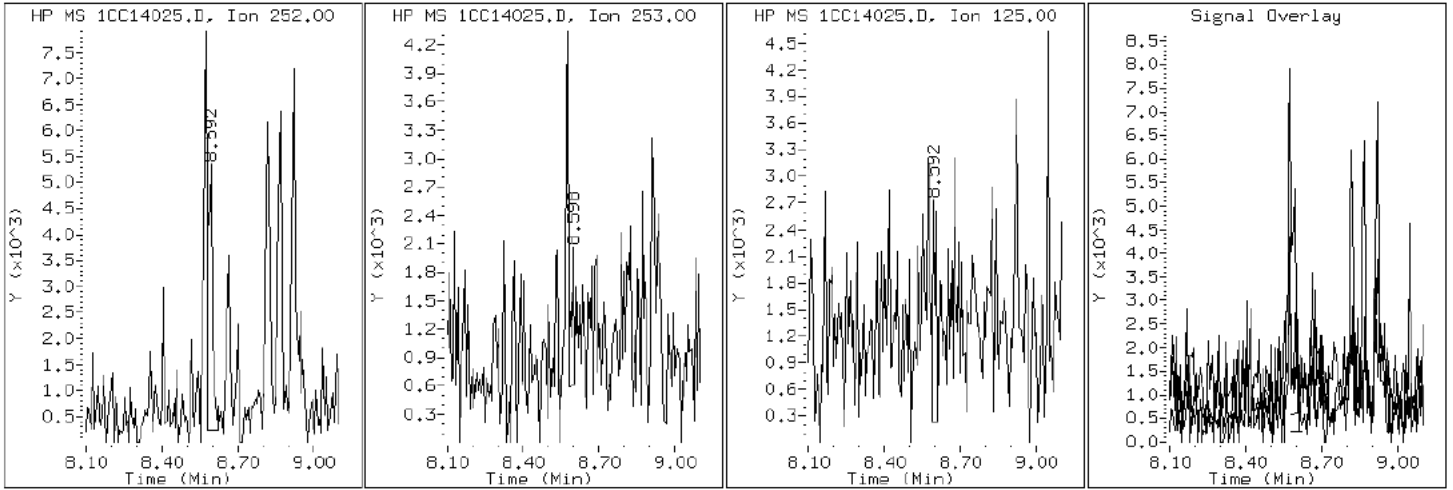
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

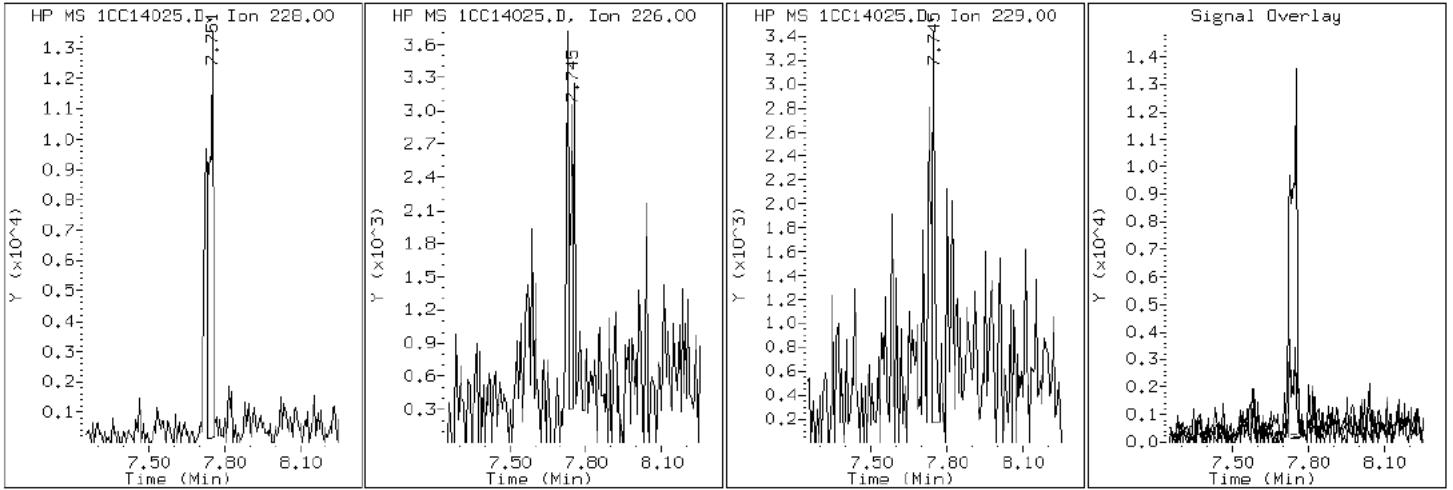
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

19 Chrysene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

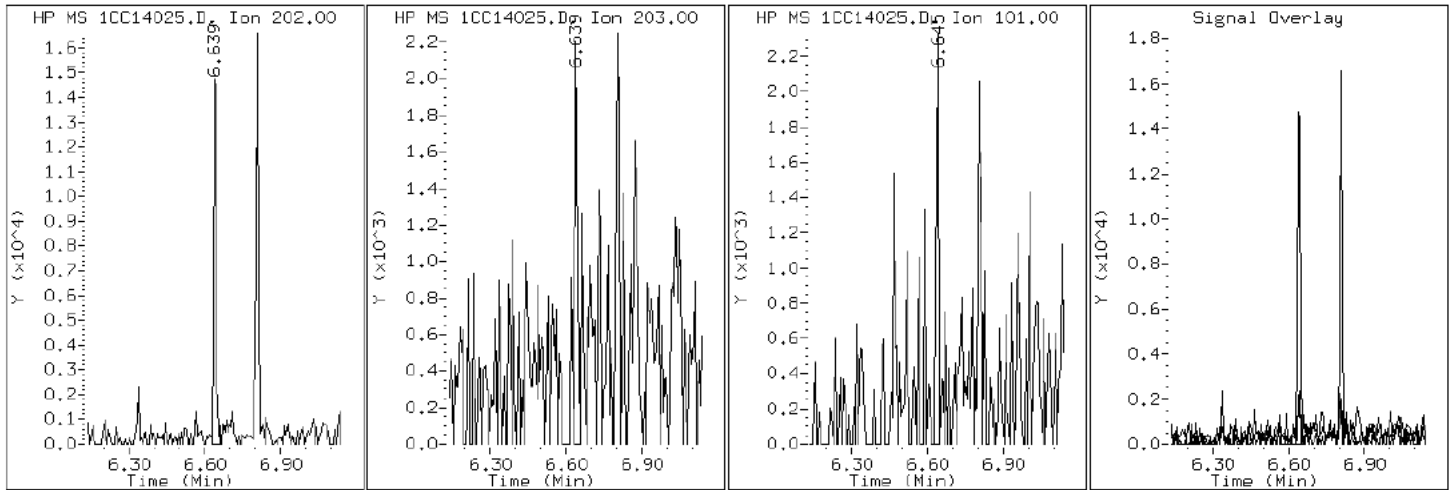
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

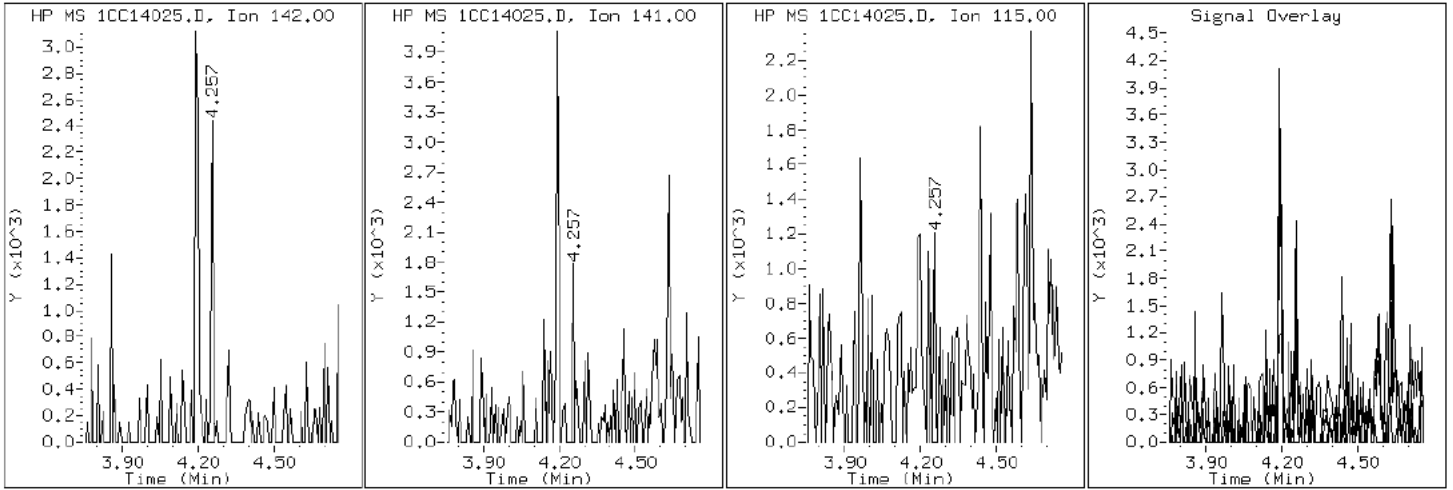
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

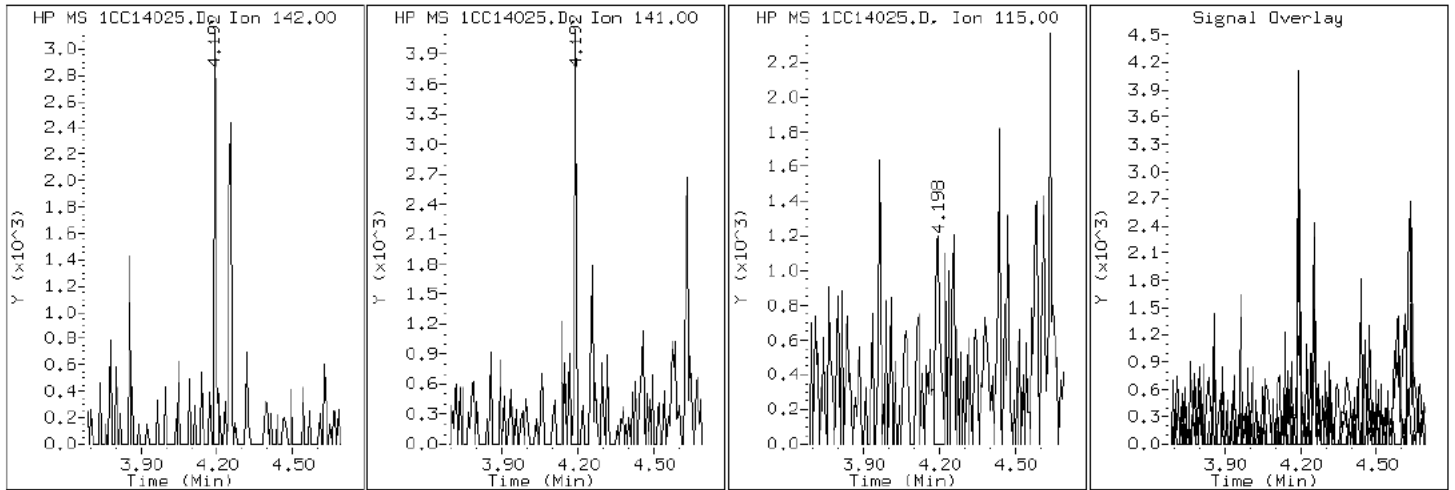
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

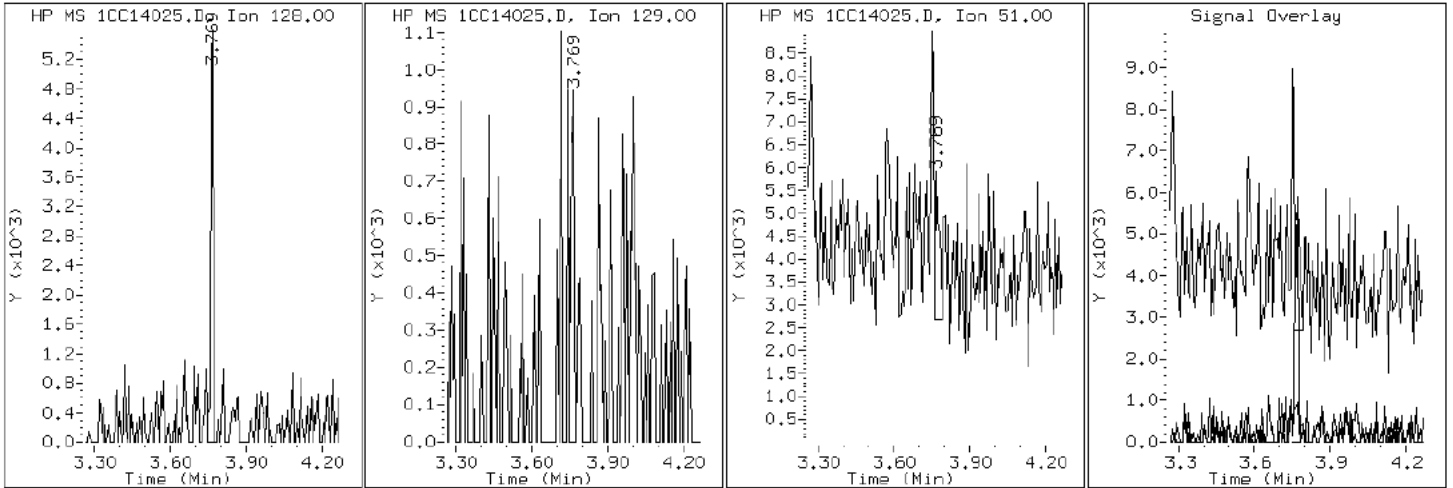
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

2 Naphthalene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

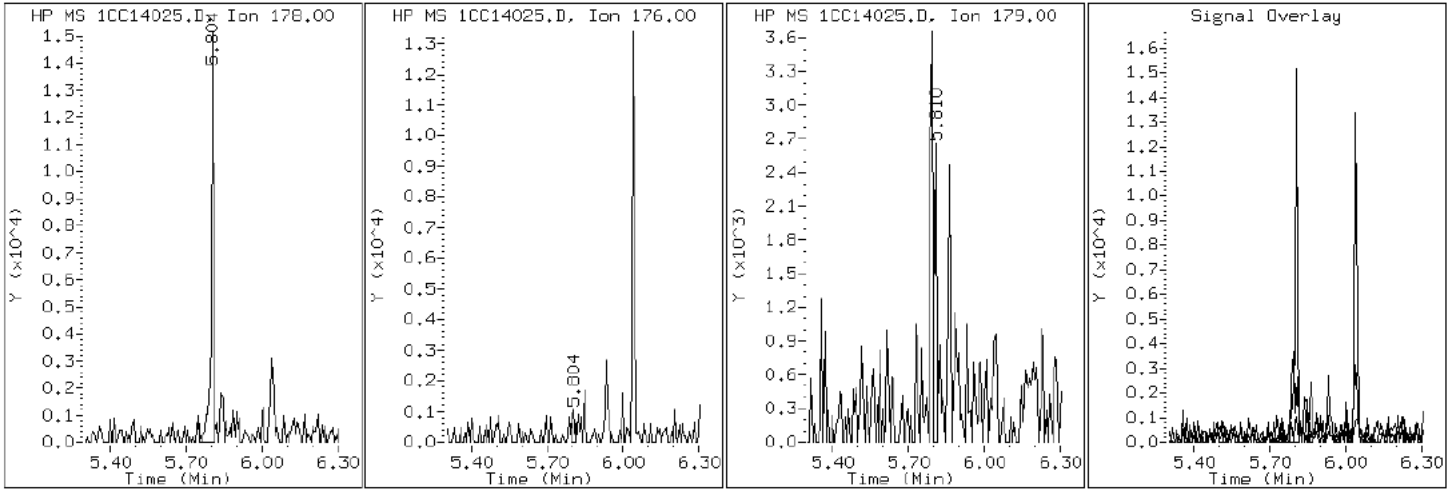
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14025.D

Date: 14-MAR-2013 18:19

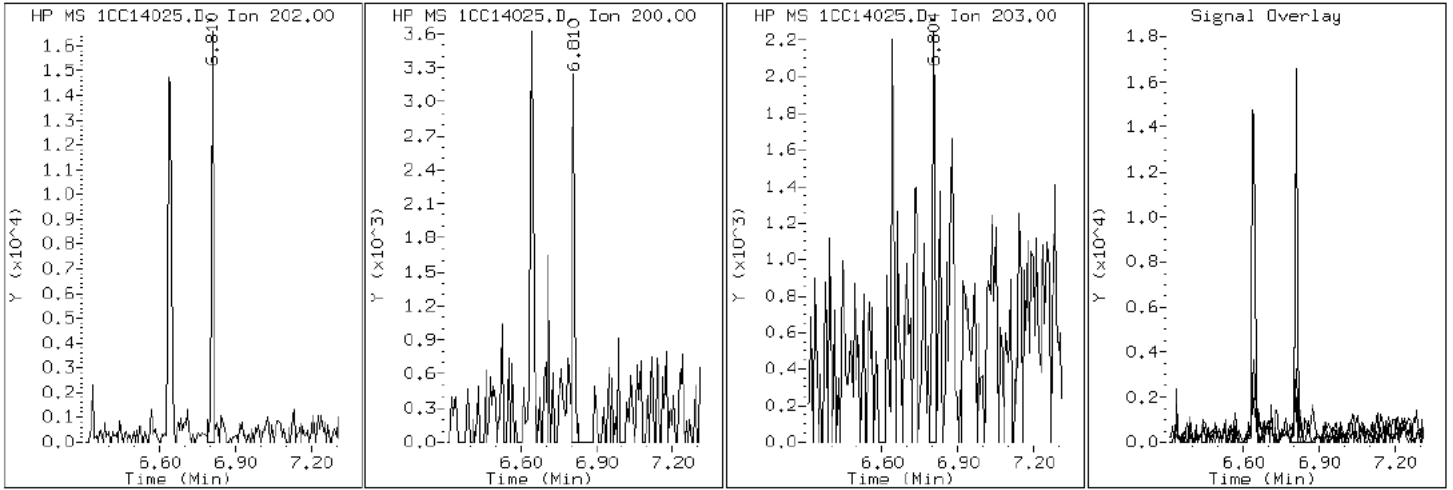
Client ID: HP0199A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-27-a

Operator: SCC

16 Pyrene

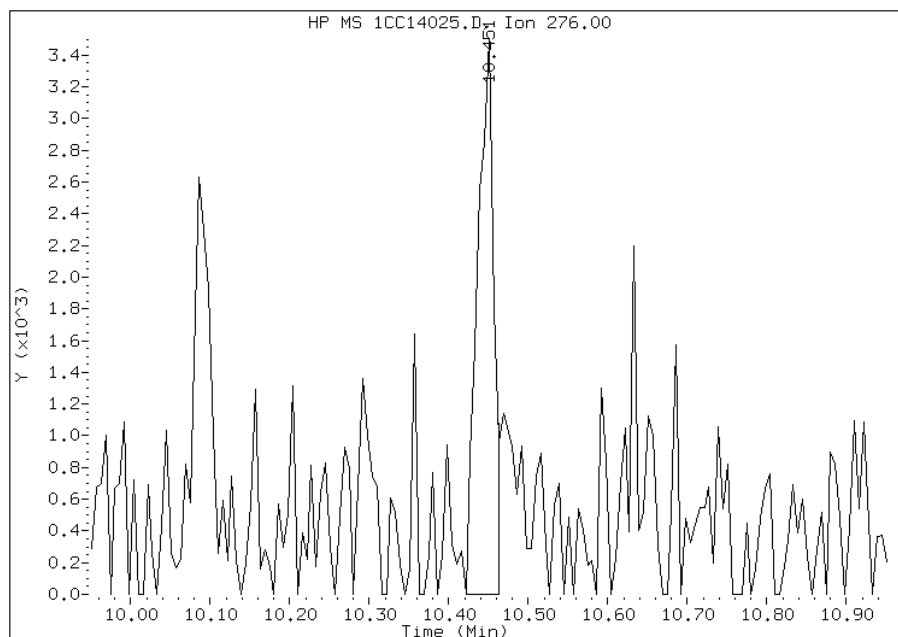


Manual Integration Report

Data File: 1CC14025.D
Inj. Date and Time: 14-MAR-2013 18:19
Instrument ID: BSMC5973.i
Client ID: HP0199A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/18/2013

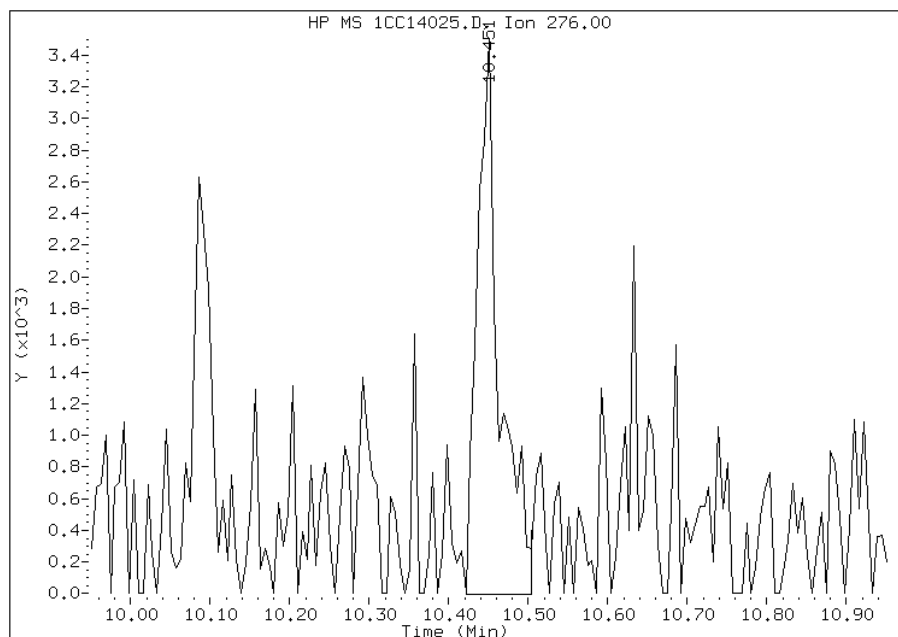
Processing Integration Results

RT: 10.45
Response: 4979
Amount: 0
Conc: 14



Manual Integration Results

RT: 10.45
Response: 6848
Amount: 0
Conc: 19



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:34
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: HP0199B-CS Lab Sample ID: 680-88067-28
 Matrix: Solid Lab File ID: 1CC14026.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 15:50
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.04(g) Date Analyzed: 03/14/2013 18:37
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1300	U	1300	260
208-96-8	Acenaphthylene	520	U	520	66
120-12-7	Anthracene	110	U	110	55
56-55-3	Benzo[a]anthracene	100	U	100	51
50-32-8	Benzo[a]pyrene	140	U	140	68
205-99-2	Benzo[b]fluoranthene	100	J	160	80
191-24-2	Benzo[g,h,i]perylene	120	J	260	58
207-08-9	Benzo[k]fluoranthene	100	U	100	47
218-01-9	Chrysene	120	U	120	59
53-70-3	Dibenz(a,h)anthracene	260	U	260	54
206-44-0	Fluoranthene	110	J	260	52
86-73-7	Fluorene	260	U	260	54
193-39-5	Indeno[1,2,3-cd]pyrene	260	U	260	93
90-12-0	1-Methylnaphthalene	520	U	520	58
91-57-6	2-Methylnaphthalene	520	U	520	93
91-20-3	Naphthalene	59	J	520	58
85-01-8	Phenanthrene	120		100	51
129-00-0	Pyrene	98	J	260	48

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14026.D
 Lab Smp Id: 680-88067-A-28-A Client Smp ID: HP0199B-CS
 Inj Date : 14-MAR-2013 18:37
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-28-a
 Misc Info : 680-88067-A-28-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	10.000	Final Volume
Ws	15.040	Weight Extracted
M	23.904	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.757	3.751	(1.000)	1157375	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	905746	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1657197	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.039	(1.044)	11411	0.45606	398.4869
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	2607435	40.0000	
* 23 Perylene-d12	264		8.927	8.927	(1.000)	1809635	40.0000	
2 Naphthalene	128		3.768	3.768	(1.003)	2022	0.06711	58.6357(Q)
11 Phenanthrene	178		5.804	5.804	(1.003)	6315	0.13179	115.1488
15 Fluoranthene	202		6.639	6.639	(1.147)	6740	0.12844	112.2236(Q)
16 Pyrene	202		6.809	6.809	(0.881)	7880	0.11246	98.2607
20 Benzo(b)fluoranthene	252		8.574	8.574	(0.960)	5619	0.11881	103.8148(Q)
26 Benzo(g,h,i)perylene	276		10.456	10.456	(1.171)	6044	0.13370	116.8244(M)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC14026.D

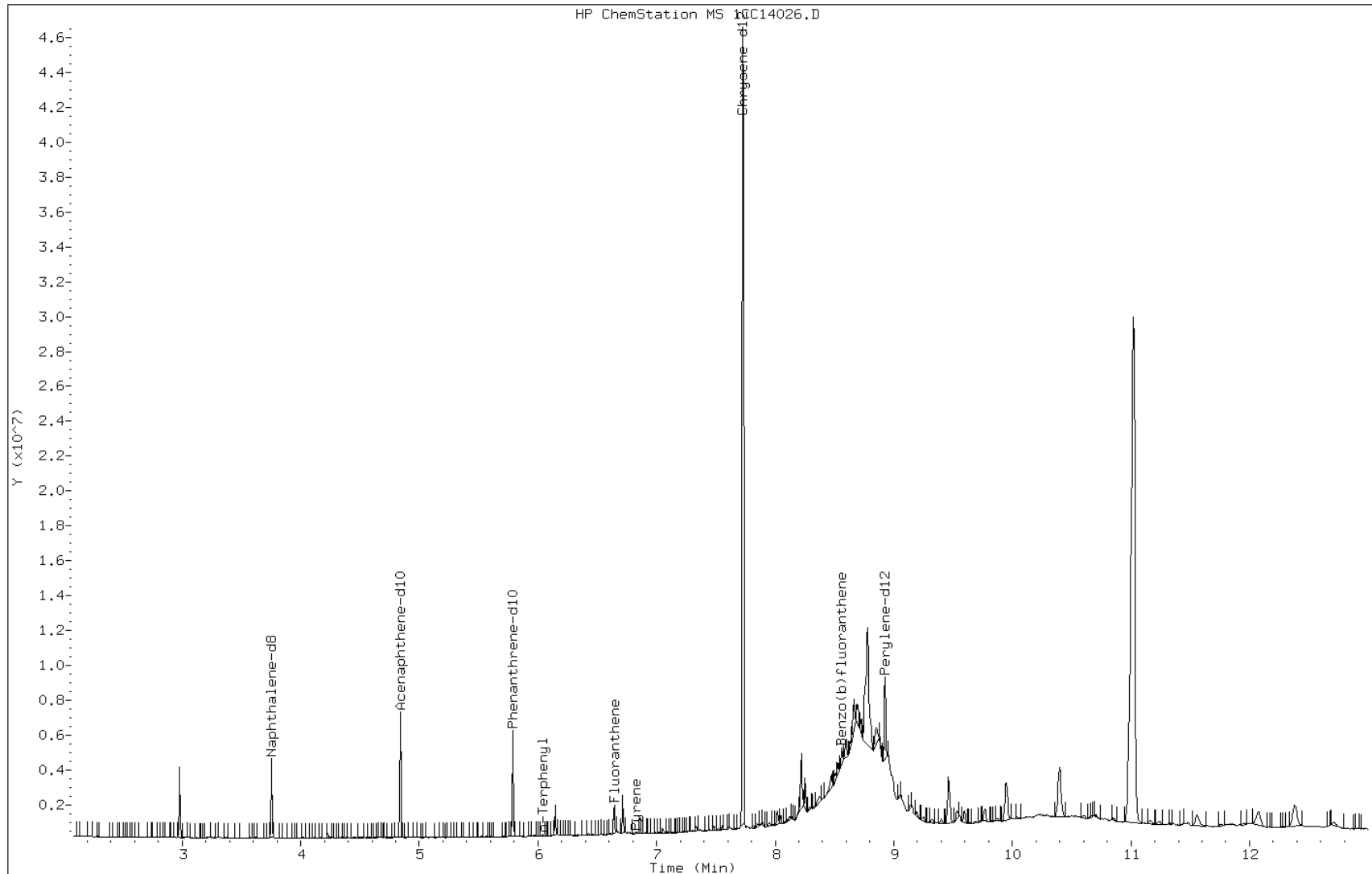
Date: 14-MAR-2013 18:37

Client ID: HP0199B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-28-a

Operator: SCC



Data File: 1CC14026.D

Date: 14-MAR-2013 18:37

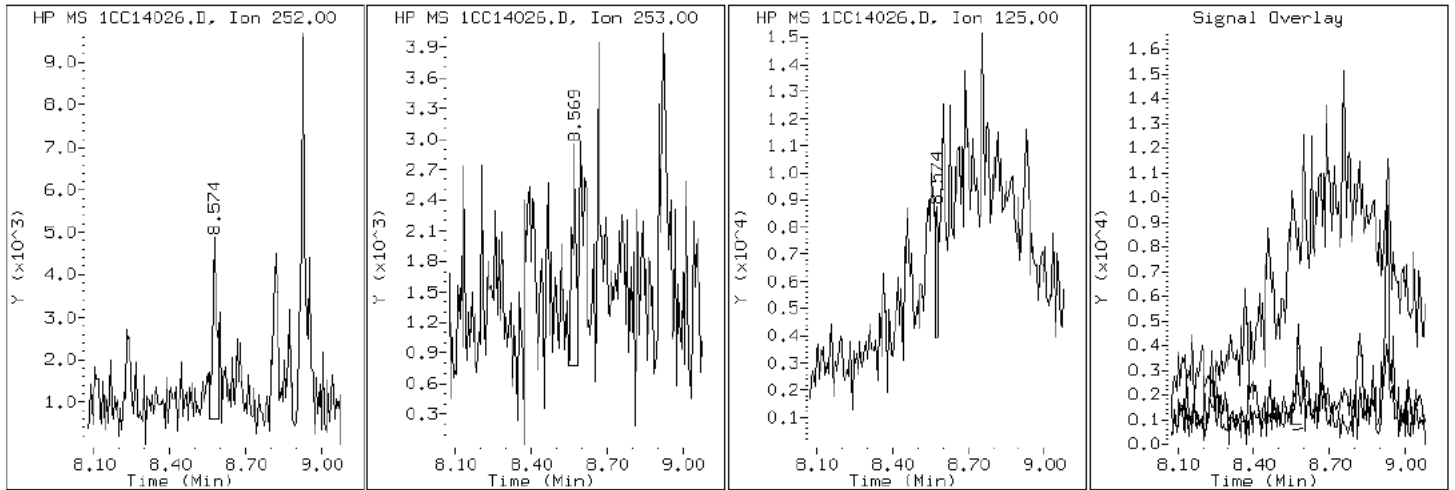
Client ID: HP0199B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-28-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14026.D

Date: 14-MAR-2013 18:37

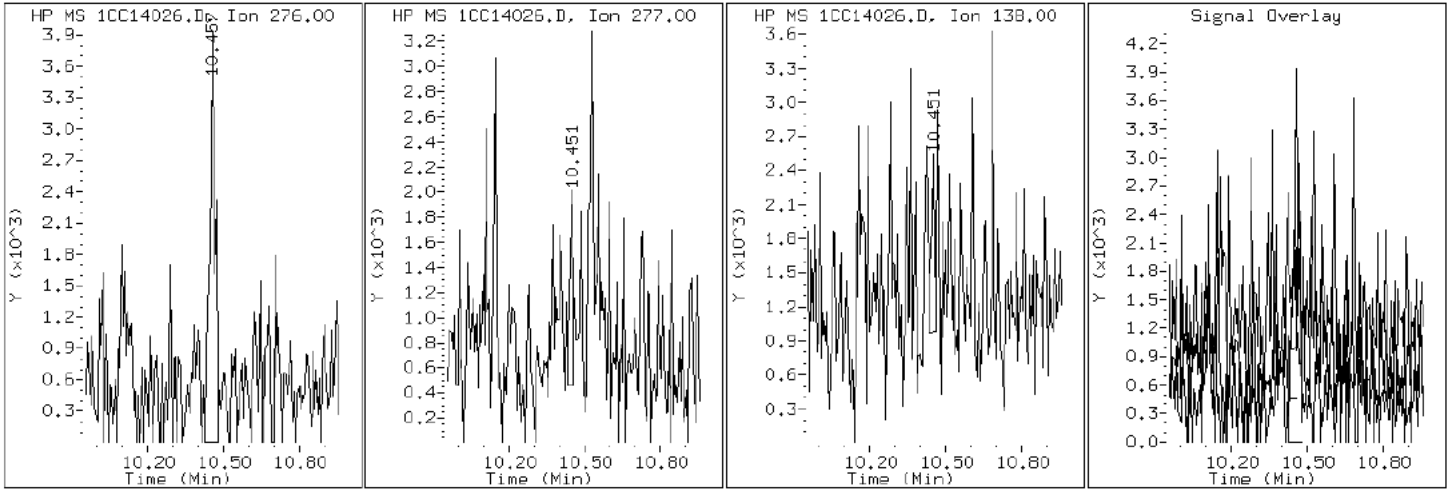
Client ID: HP0199B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-28-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14026.D

Date: 14-MAR-2013 18:37

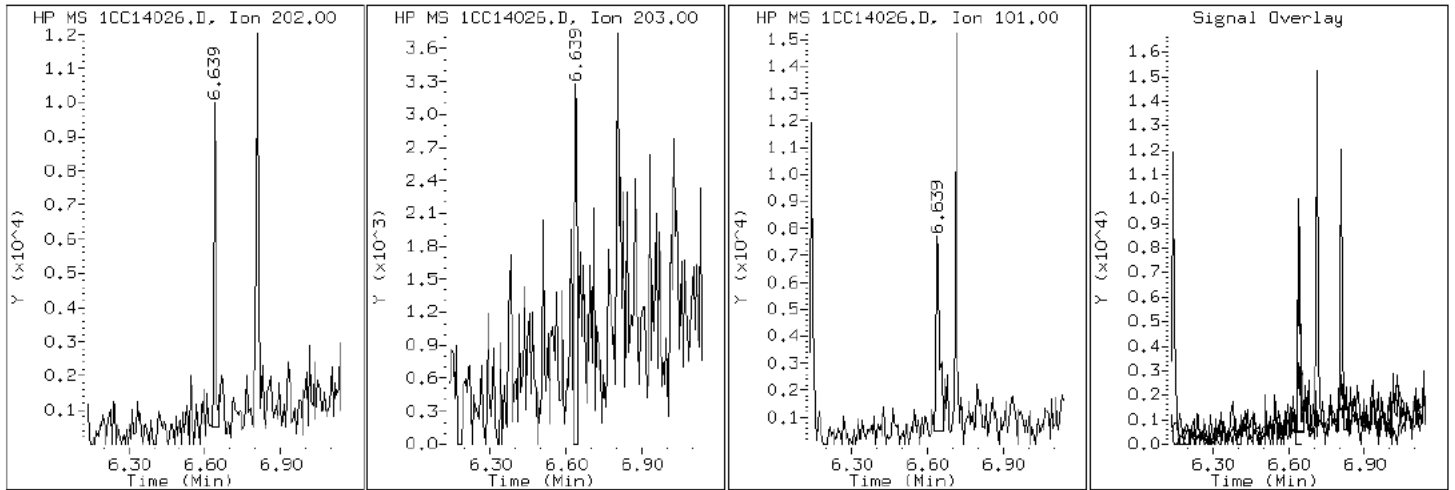
Client ID: HP0199B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-28-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14026.D

Date: 14-MAR-2013 18:37

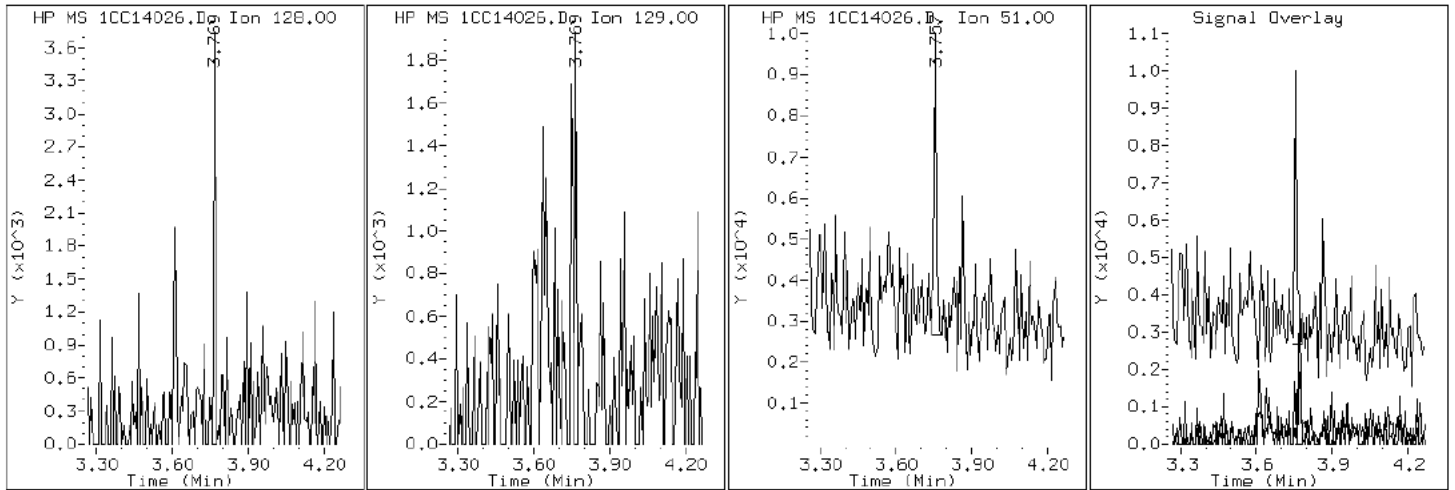
Client ID: HP0199B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-28-a

Operator: SCC

2 Naphthalene



Data File: 1CC14026.D

Date: 14-MAR-2013 18:37

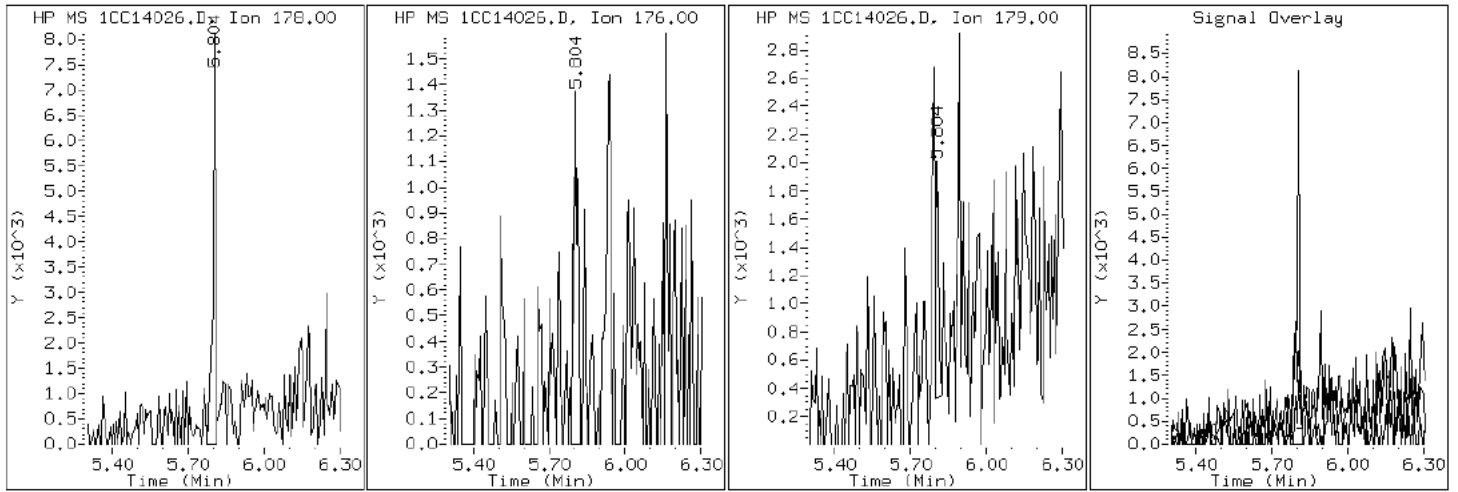
Client ID: HP0199B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-28-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14026.D

Date: 14-MAR-2013 18:37

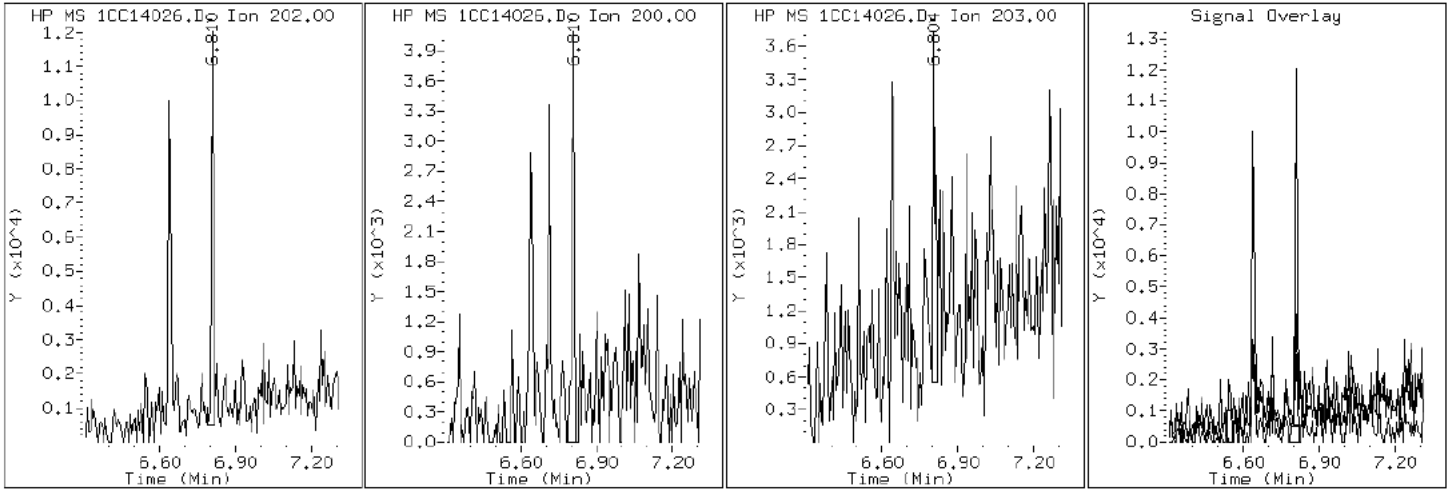
Client ID: HP0199B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-28-a

Operator: SCC

16 Pyrene

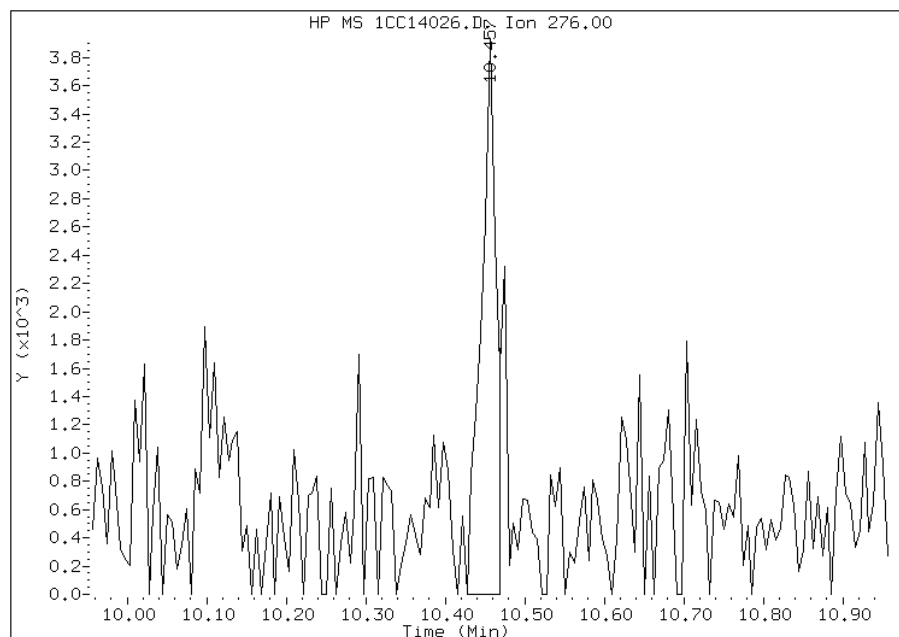


Manual Integration Report

Data File: 1CC14026.D
Inj. Date and Time: 14-MAR-2013 18:37
Instrument ID: BSMC5973.i
Client ID: HP0199B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/18/2013

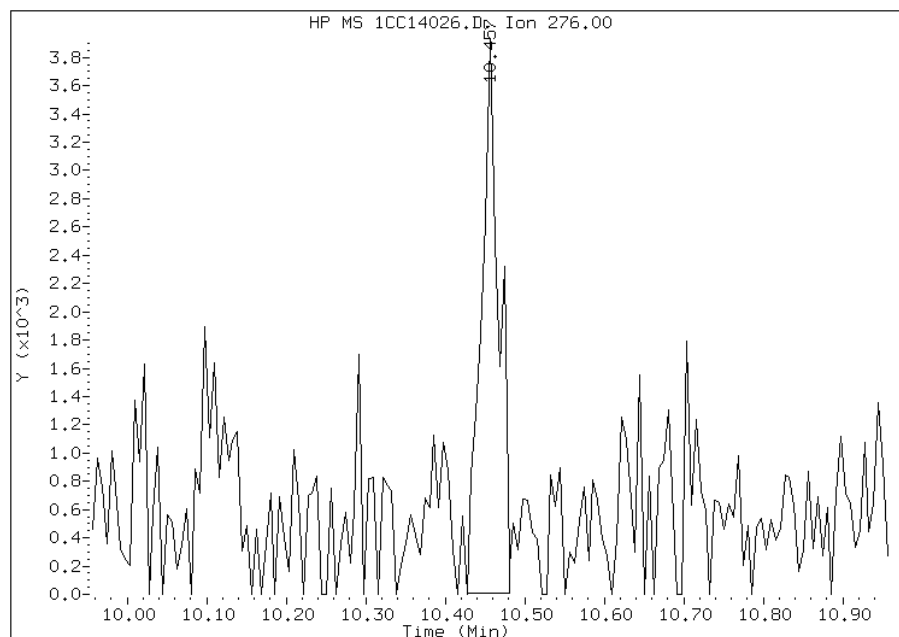
Processing Integration Results

RT: 10.46
Response: 5172
Amount: 0
Conc: 100



Manual Integration Results

RT: 10.46
Response: 6044
Amount: 0
Conc: 117



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:36
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: HP0255B-CS Lab Sample ID: 680-88067-29
 Matrix: Solid Lab File ID: 1CC14027.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 14:30
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 14.95(g) Date Analyzed: 03/14/2013 18:56
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	25	J	52	6.5
120-12-7	Anthracene	36		11	5.5
56-55-3	Benzo[a]anthracene	180		10	5.1
50-32-8	Benzo[a]pyrene	200		14	6.8
205-99-2	Benzo[b]fluoranthene	350		16	8.0
191-24-2	Benzo[g,h,i]perylene	180		26	5.8
207-08-9	Benzo[k]fluoranthene	150		10	4.7
218-01-9	Chrysene	210		12	5.9
53-70-3	Dibenz(a,h)anthracene	68		26	5.4
206-44-0	Fluoranthene	260		26	5.2
86-73-7	Fluorene	18	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	130		26	9.3
90-12-0	1-Methylnaphthalene	44	J	52	5.8
91-57-6	2-Methylnaphthalene	66		52	9.3
91-20-3	Naphthalene	58		52	5.8
85-01-8	Phenanthrene	230		10	5.1
129-00-0	Pyrene	260		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14027.D
 Lab Smp Id: 680-88067-A-29-A Client Smp ID: HP0255B-CS
 Inj Date : 14-MAR-2013 18:56
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-29-a
 Misc Info : 680-88067-A-29-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 27
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	23.341	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.757	3.757	(1.000)	1074895	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	843809	40.0000		
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1489536	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	172387	7.66524	668.8381	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1573462	40.0000		
* 23 Perylene-d12	264		8.927	8.927	(1.000)	1419125	40.0000		
2 Naphthalene	128		3.768	3.768	(1.003)	18667	0.66707	58.2058	
3 2-Methylnaphthalene	142		4.192	4.192	(1.116)	14191	0.76025	66.3362	
4 1-Methylnaphthalene	142		4.257	4.257	(1.133)	8584	0.50493	44.0578	
5 Acenaphthylene	152		4.757	4.751	(0.983)	9784	0.28760	25.0946	
9 Fluorene	166		5.180	5.180	(1.070)	5502	0.20574	17.9524(Q)	
11 Phenanthrene	178		5.804	5.804	(1.002)	111774	2.59512	226.4400	
12 Anthracene	178		5.839	5.839	(1.008)	17463	0.41457	36.1738	
13 Carbazole	167		5.945	5.945	(1.026)	10816	0.28886	25.2043(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.645	6.639	(1.147)	139298	2.95325	257.6886
16 Pyrene	202	6.809	6.809	(0.881)	127680	3.01954	263.4734
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	95325	2.09906	183.1557
19 Chrysene	228	7.751	7.751	(1.002)	110419	2.42961	211.9978
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.960)	147240	3.97012	346.4171(M)
21 Benzo(k)fluoranthene	252	8.586	8.598	(0.962)	65655	1.72570	150.5773(QM)
22 Benzo(a)pyrene	252	8.868	8.868	(0.993)	82608	2.29316	200.0921
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.131)	51445	1.51809	132.4622(M)
25 Dibenzo(a,h)anthracene	278	10.109	10.121	(1.132)	25789	0.77801	67.8863
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	71834	2.02636	176.8122

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC14027.D

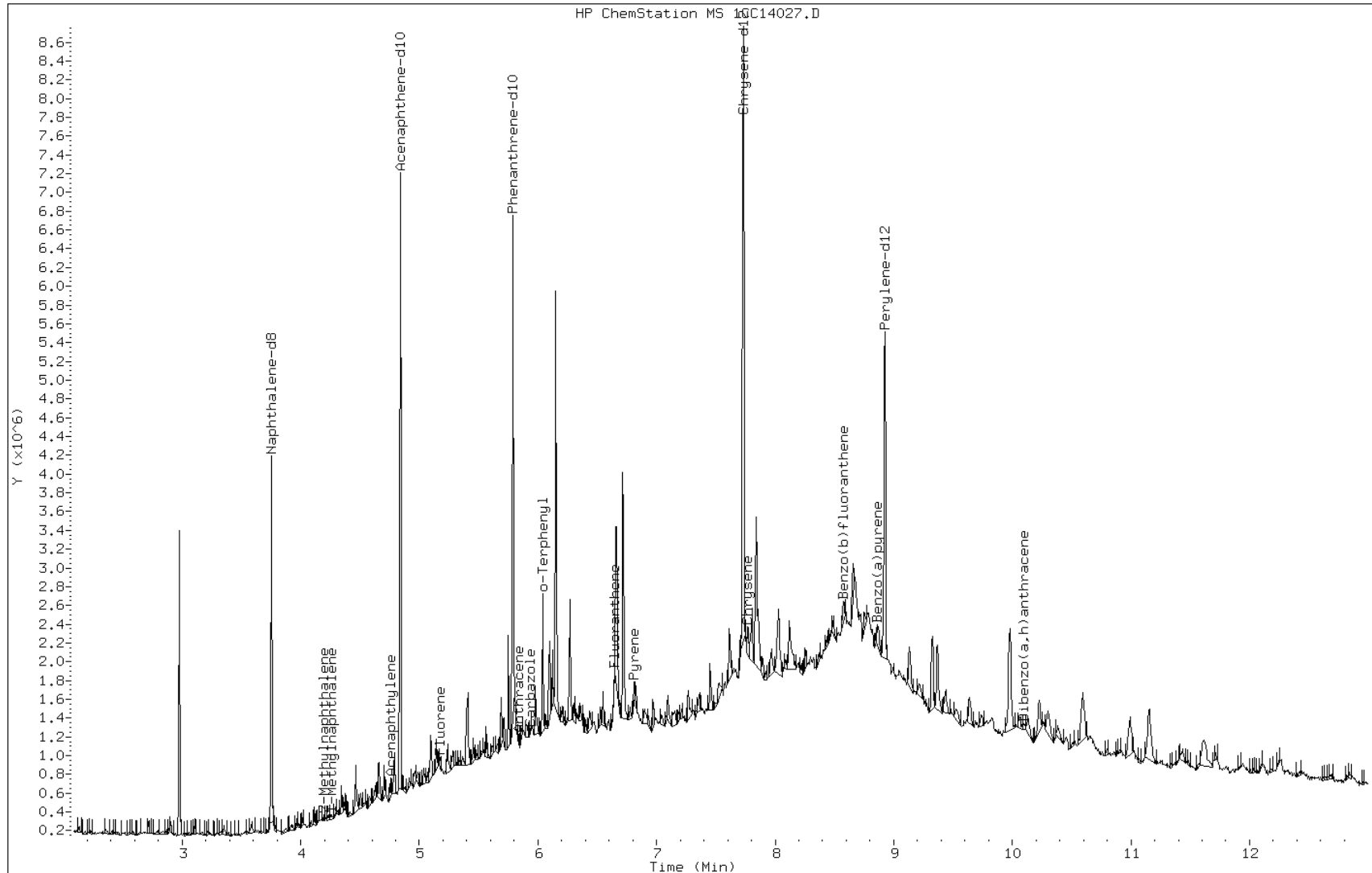
Date: 14-MAR-2013 18:56

Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

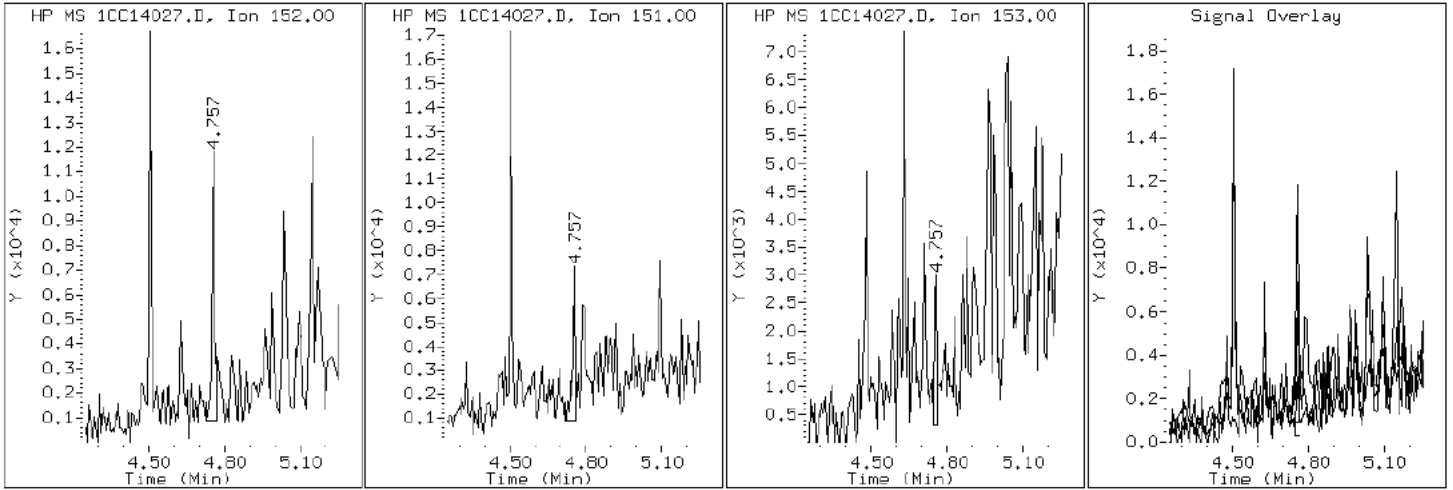
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

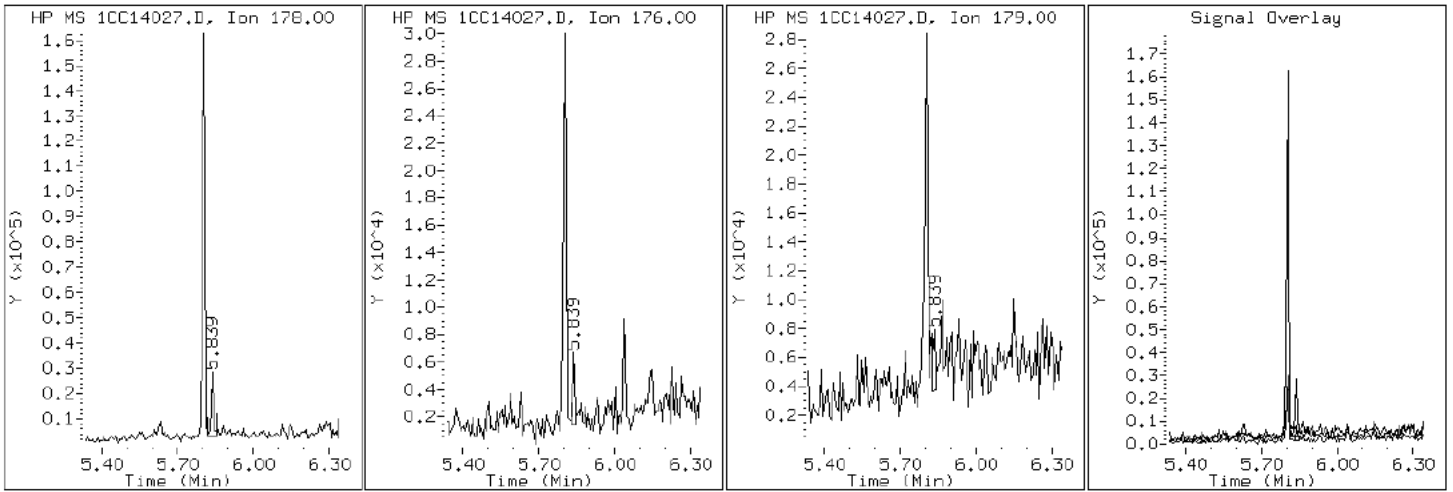
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

12 Anthracene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

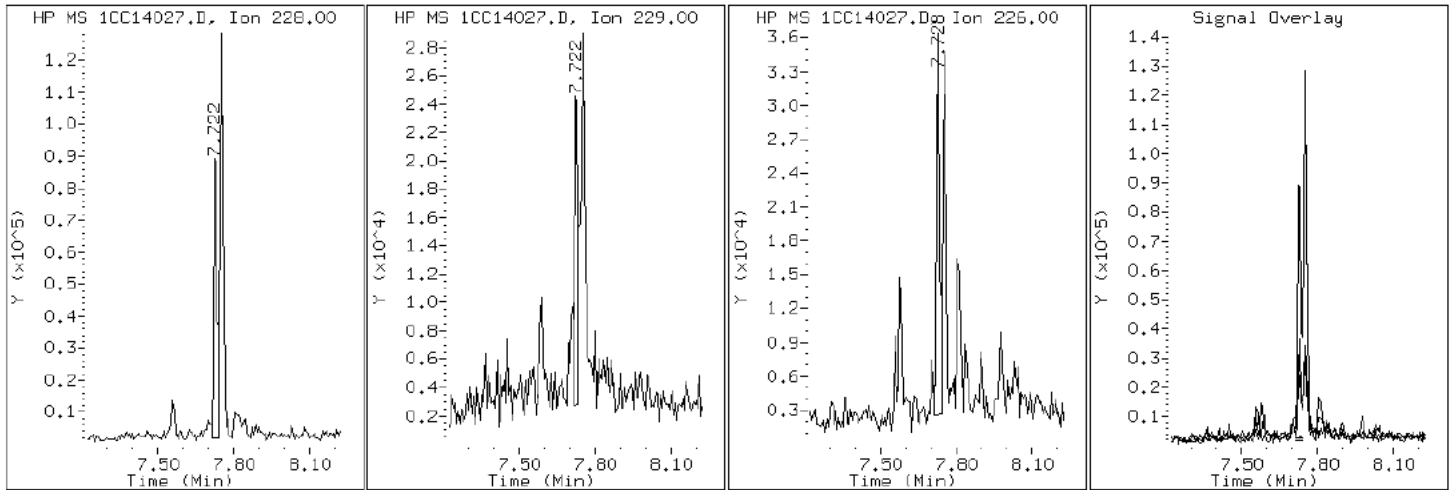
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

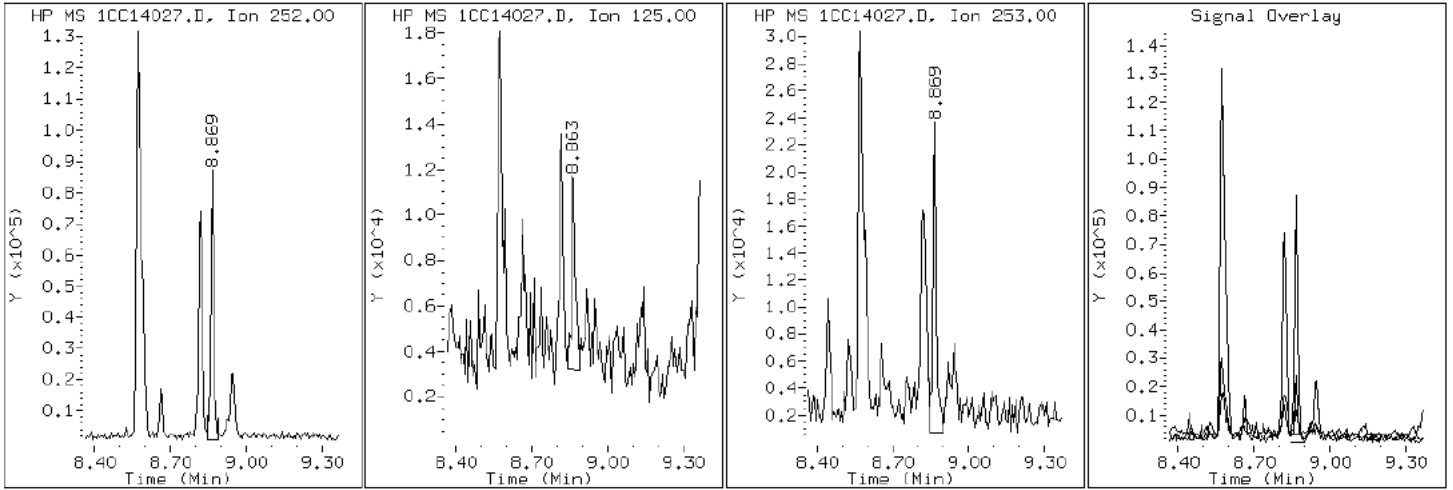
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

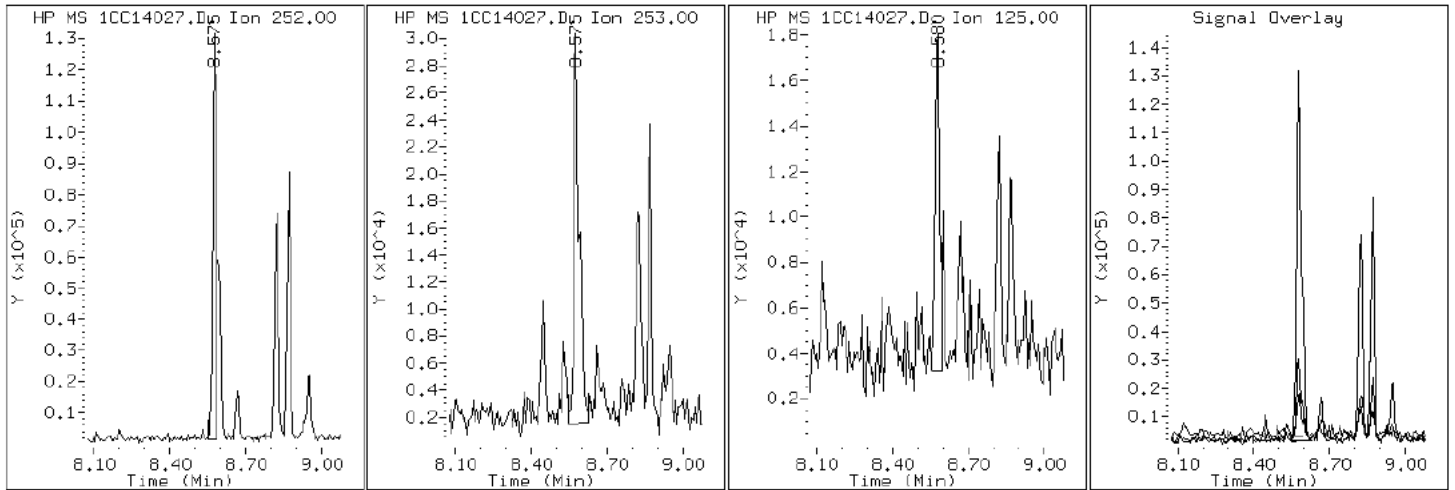
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

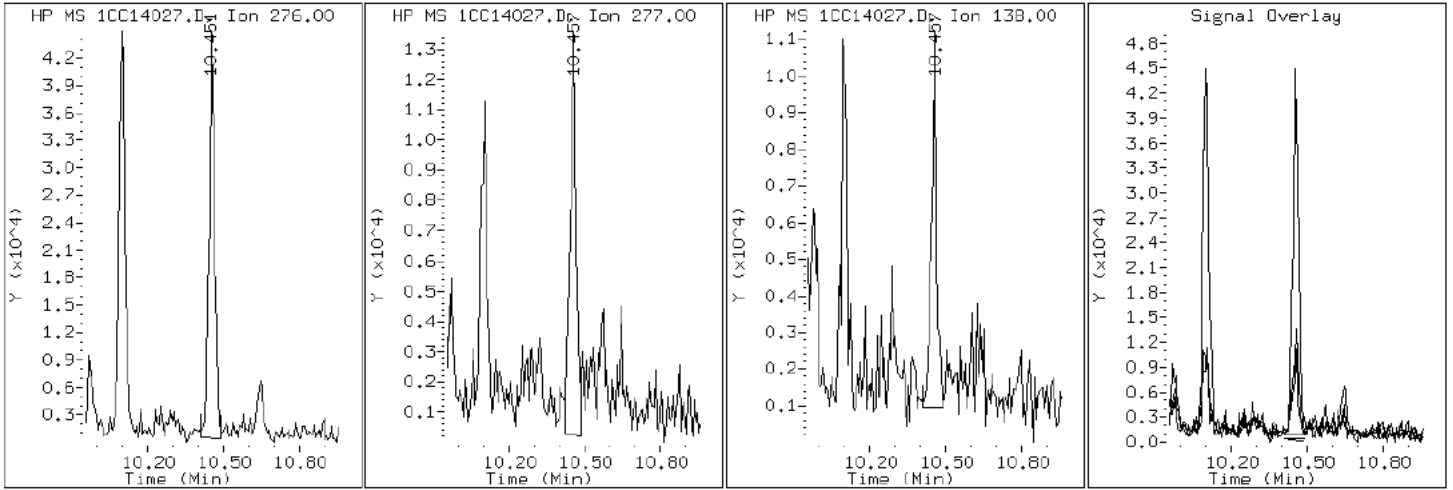
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

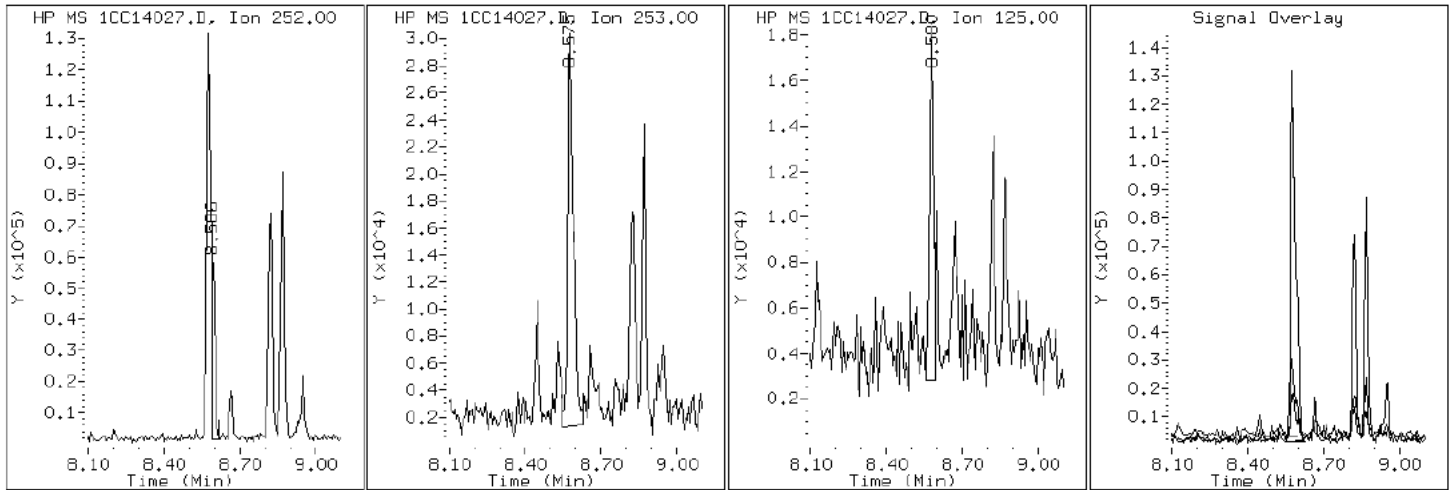
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

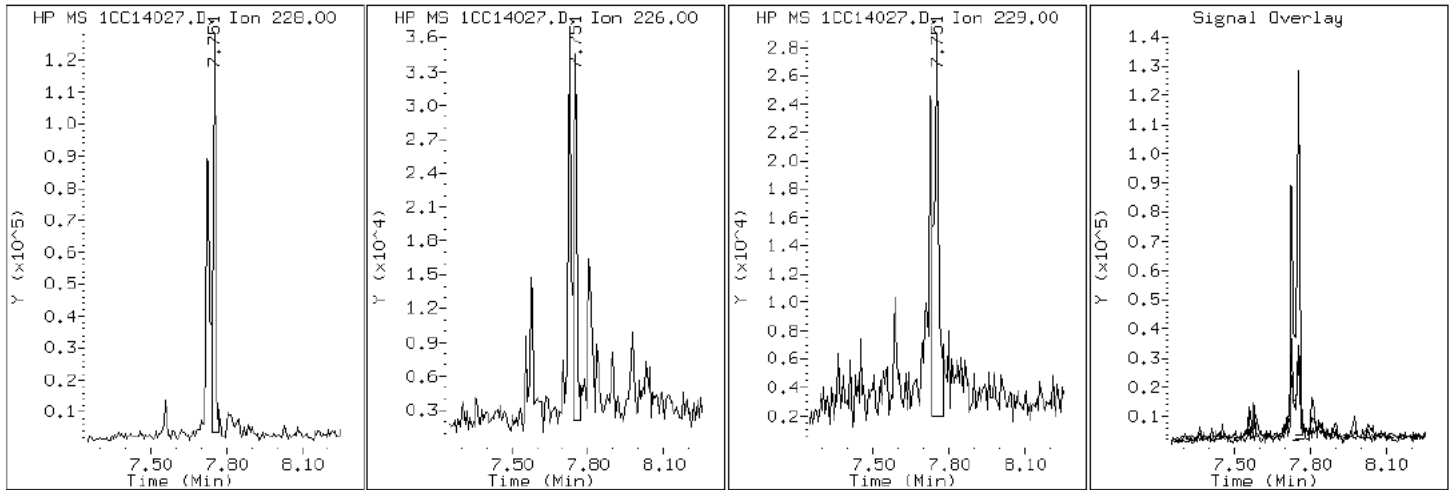
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

19 Chrysene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

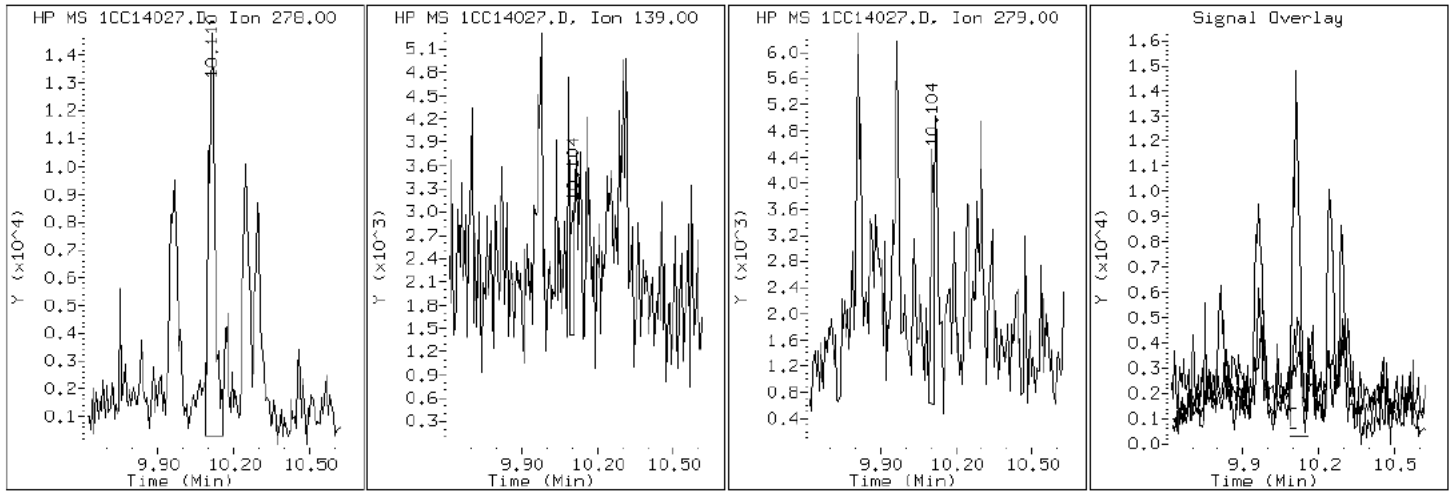
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

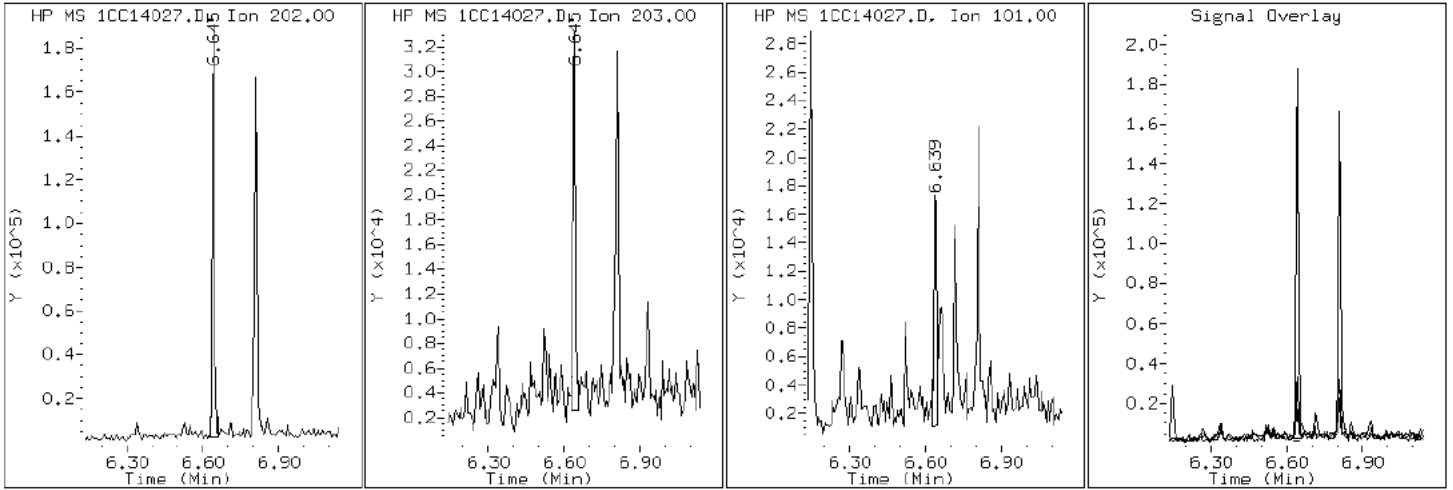
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

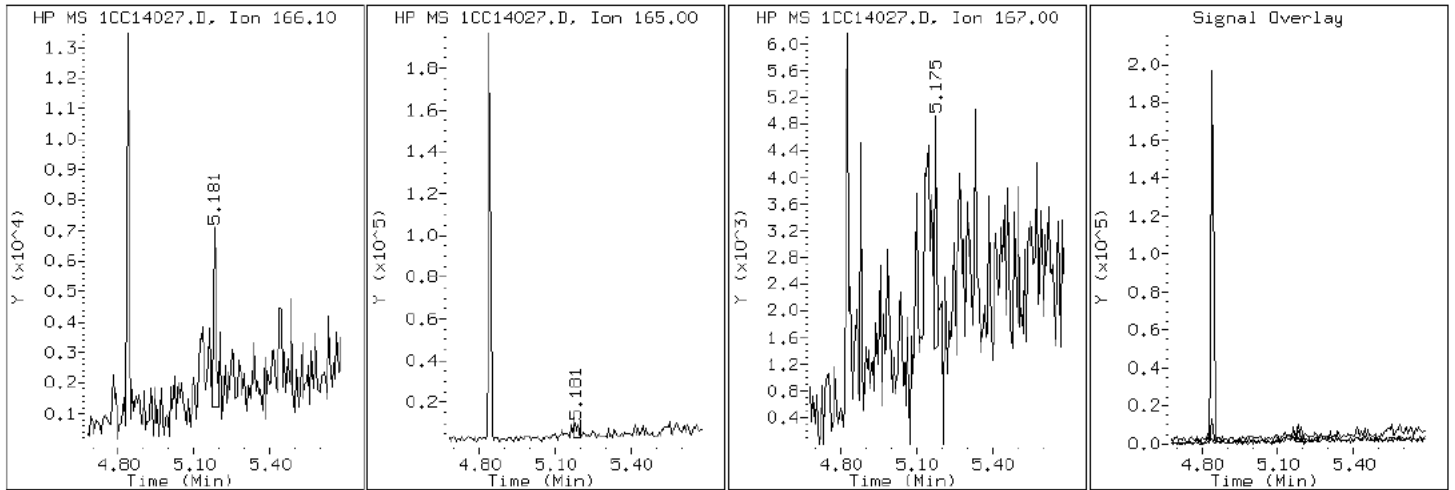
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

9 Fluorene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

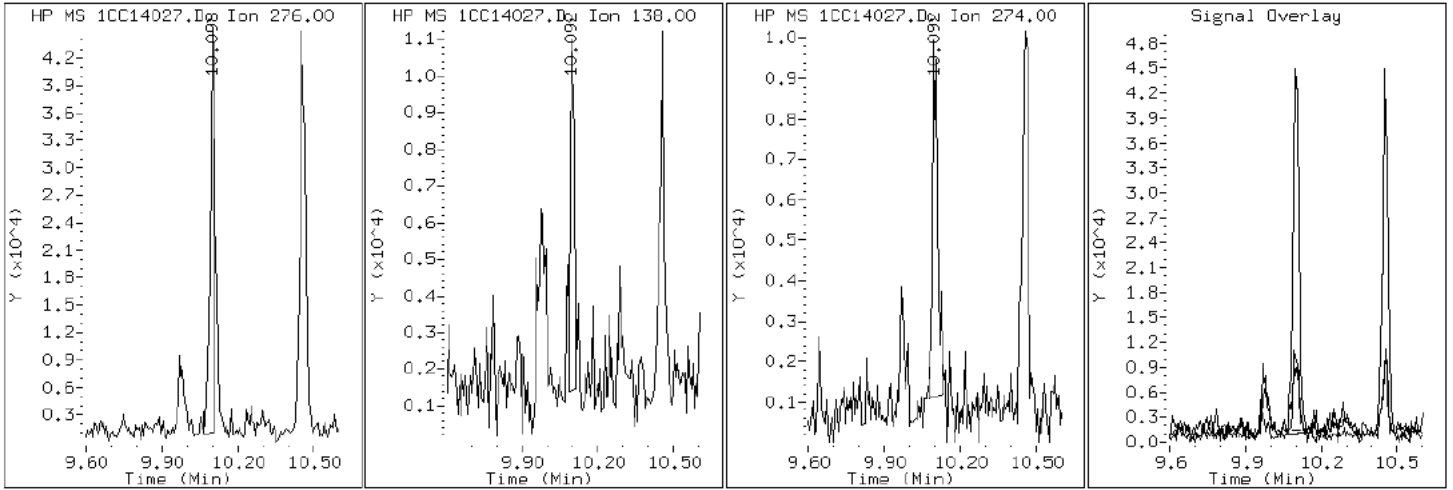
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

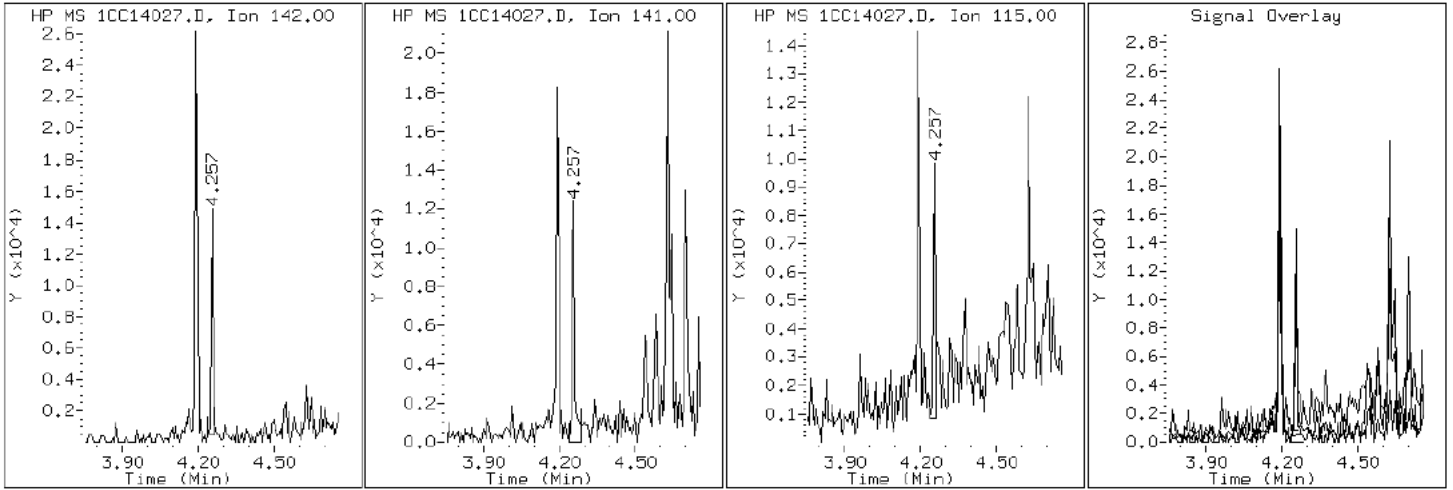
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

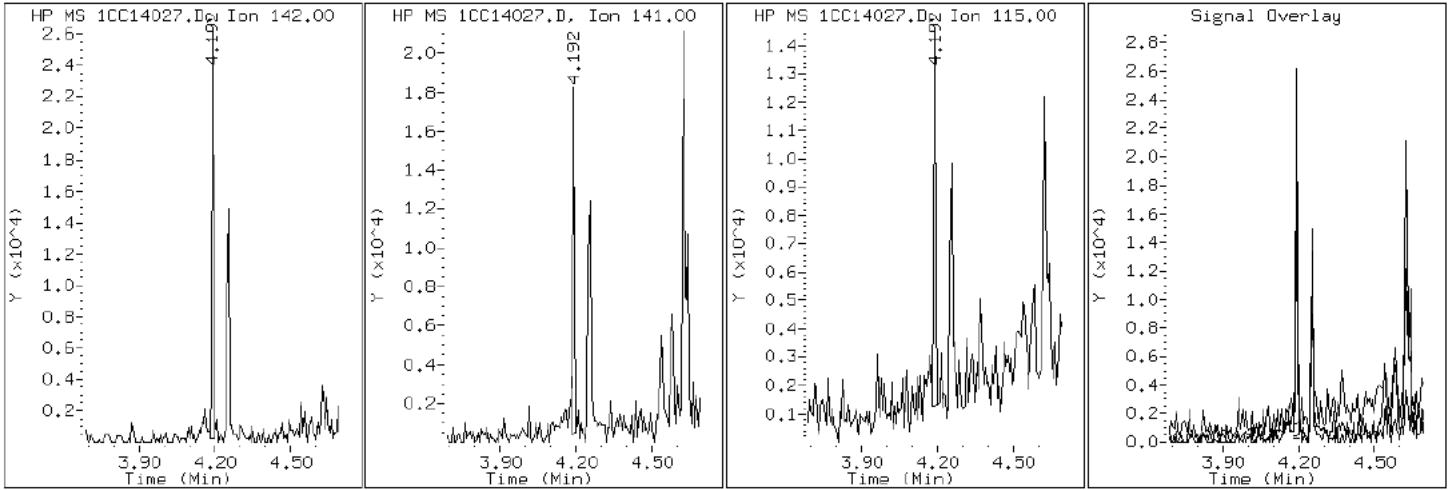
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

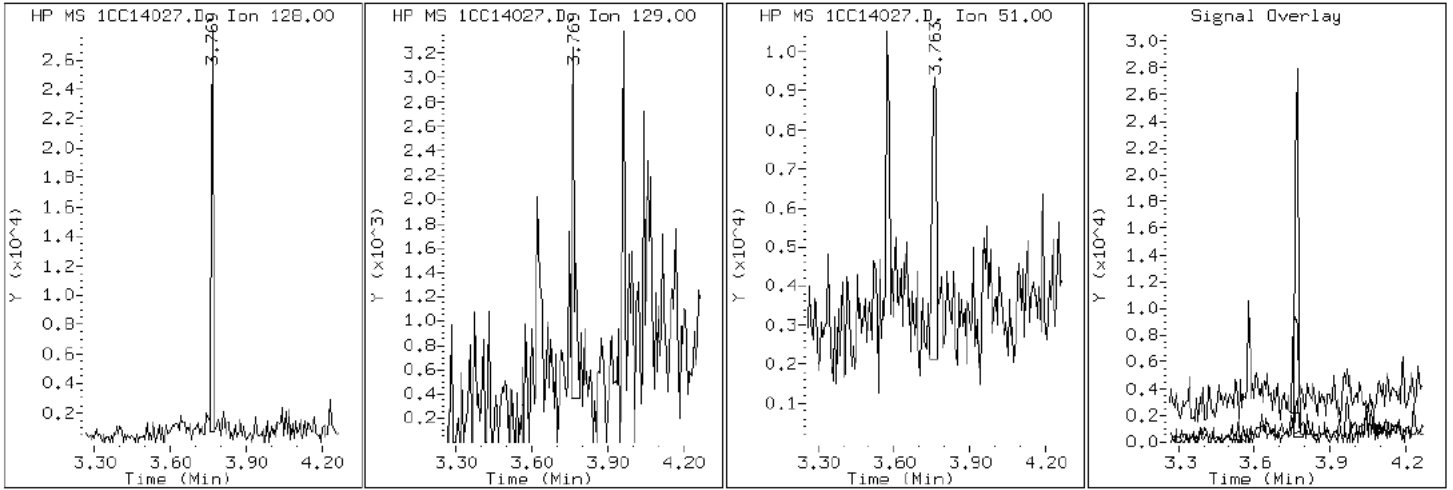
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

2 Naphthalene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

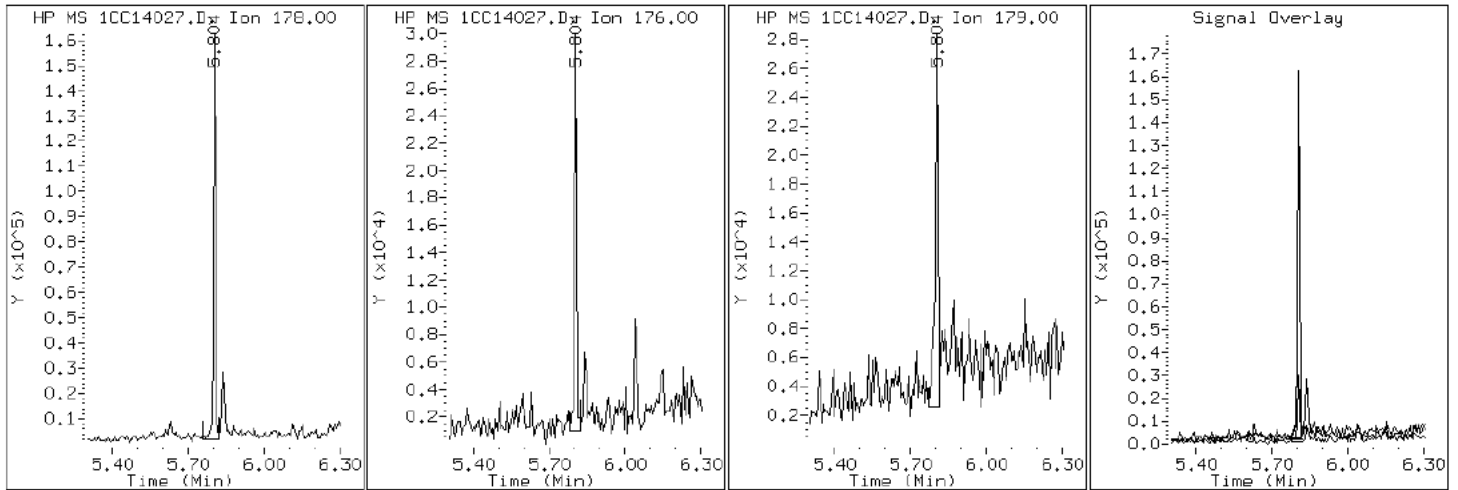
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14027.D

Date: 14-MAR-2013 18:56

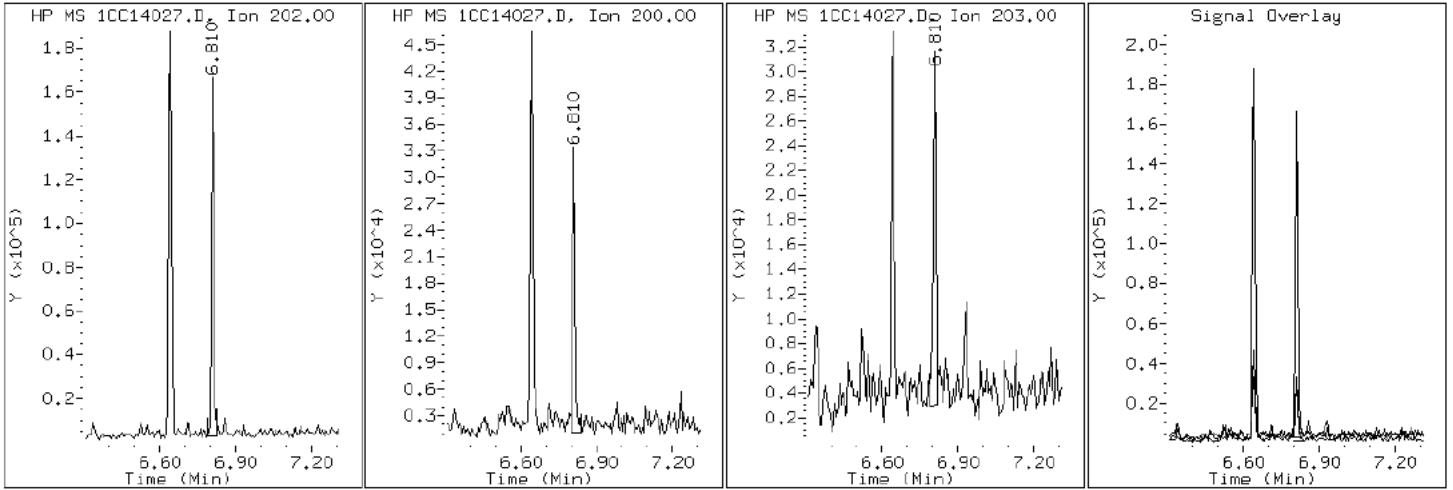
Client ID: HP0255B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-29-a

Operator: SCC

16 Pyrene

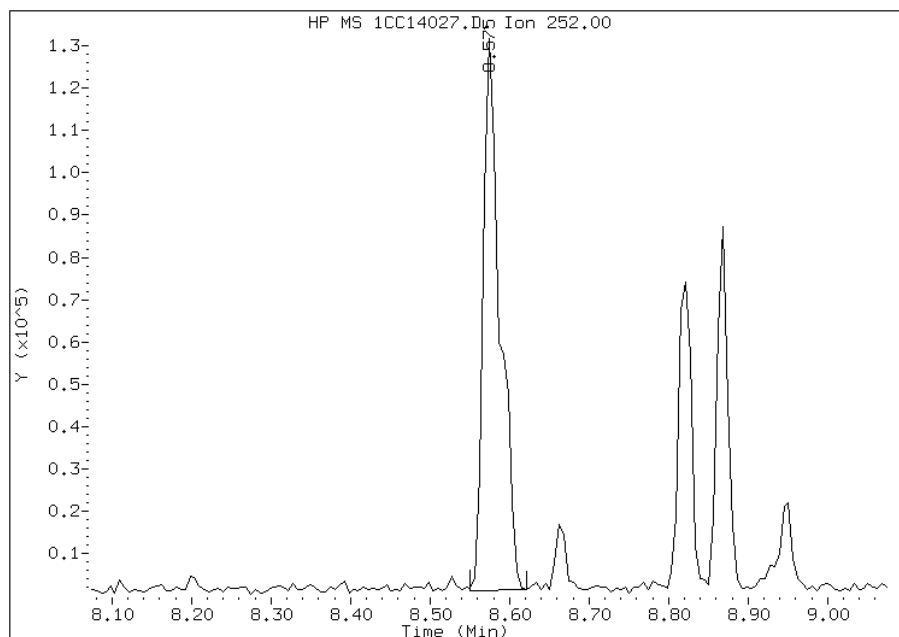


Manual Integration Report

Data File: 1CC14027.D
Inj. Date and Time: 14-MAR-2013 18:56
Instrument ID: BSMC5973.i
Client ID: HP0255B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

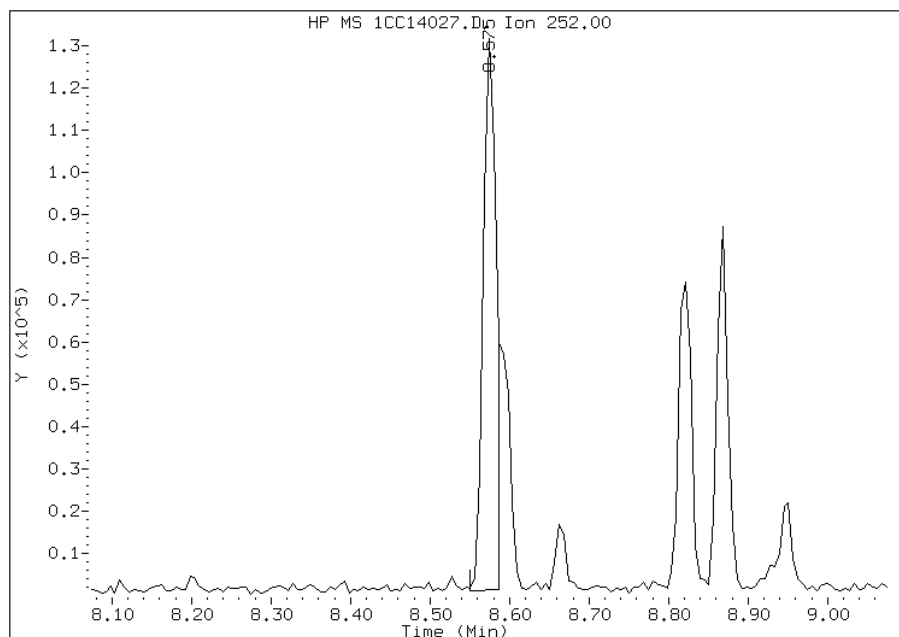
Processing Integration Results

RT: 8.57
Response: 192268
Amount: 5
Conc: 452



Manual Integration Results

RT: 8.57
Response: 147240
Amount: 4
Conc: 346



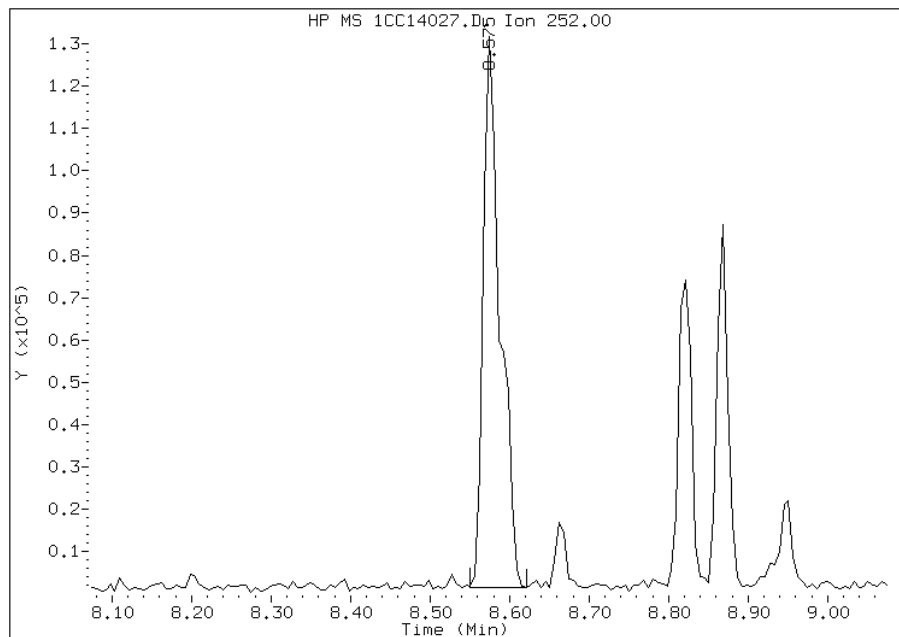
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14027.D
Inj. Date and Time: 14-MAR-2013 18:56
Instrument ID: BSMC5973.i
Client ID: HP0255B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

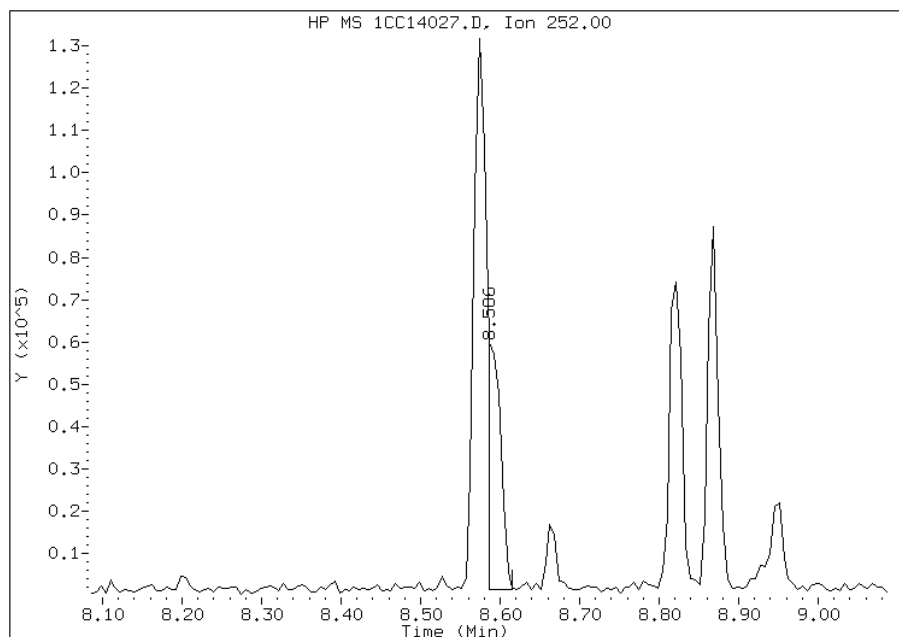
Processing Integration Results

RT: 8.57
Response: 191479
Amount: 5
Conc: 439



Manual Integration Results

RT: 8.59
Response: 65655
Amount: 2
Conc: 151



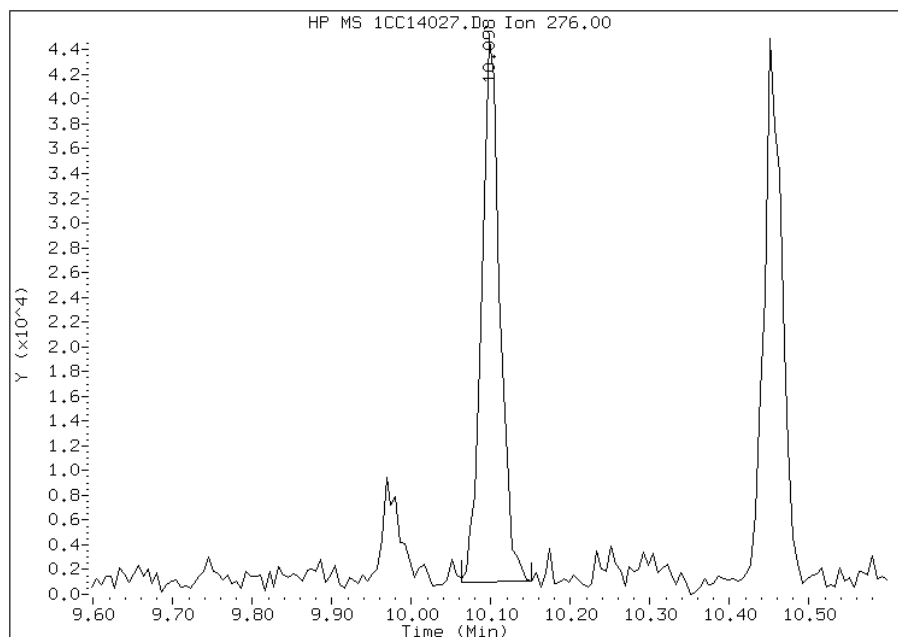
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14027.D
Inj. Date and Time: 14-MAR-2013 18:56
Instrument ID: BSMC5973.i
Client ID: HP0255B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

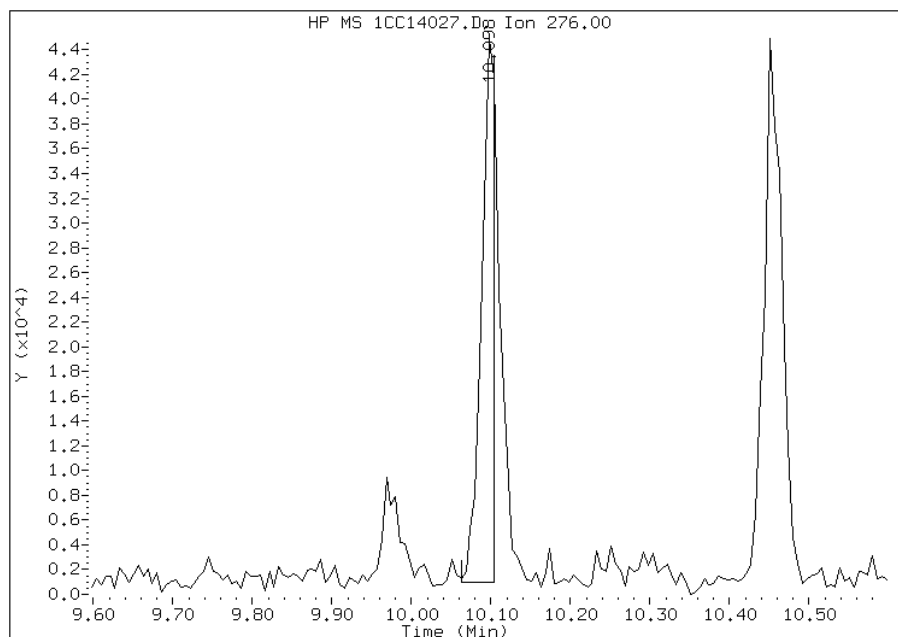
Processing Integration Results

RT: 10.10
Response: 70200
Amount: 2
Conc: 181



Manual Integration Results

RT: 10.10
Response: 51445
Amount: 2
Conc: 132



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: HP0255C-CS Lab Sample ID: 680-88067-30
 Matrix: Solid Lab File ID: 1CC14028.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 14:40
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.34 (g) Date Analyzed: 03/14/2013 19:14
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 21.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	18	J	50	6.3
120-12-7	Anthracene	16		11	5.3
56-55-3	Benzo[a]anthracene	66		10	4.9
50-32-8	Benzo[a]pyrene	67		13	6.5
205-99-2	Benzo[b]fluoranthene	150		15	7.6
191-24-2	Benzo[g,h,i]perylene	63		25	5.5
207-08-9	Benzo[k]fluoranthene	75		10	4.5
218-01-9	Chrysene	100		11	5.6
53-70-3	Dibenz(a,h)anthracene	19	J	25	5.1
206-44-0	Fluoranthene	120		25	5.0
86-73-7	Fluorene	7.8	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	56		25	8.9
90-12-0	1-Methylnaphthalene	29	J	50	5.5
91-57-6	2-Methylnaphthalene	26	J	50	8.9
91-20-3	Naphthalene	38	J	50	5.5
85-01-8	Phenanthrene	88		10	4.9
129-00-0	Pyrene	110		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14028.D
 Lab Smp Id: 680-88067-A-30-A Client Smp ID: HP0255C-CS
 Inj Date : 14-MAR-2013 19:14
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-30-a
 Misc Info : 680-88067-A-30-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.340	Weight Extracted
M	21.860	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	1057976	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	838844	40.0000		
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1551850	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	163059	6.95932	580.5918	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1625617	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1522556	40.0000		
2 Naphthalene	128		3.768	3.768	(1.005)	12700	0.46110	38.4675	
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	5632	0.30655	25.5740	
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	5817	0.34764	29.0022	
5 Acenaphthylene	152		4.757	4.751	(0.983)	7140	0.21112	17.6130	
9 Fluorene	166		5.180	5.180	(1.070)	2494	0.09381	7.8265(Q)	
11 Phenanthrene	178		5.804	5.804	(1.002)	47301	1.05412	87.9412	
12 Anthracene	178		5.839	5.839	(1.008)	8491	0.19348	16.1415	
13 Carbazole	167		5.945	5.945	(1.026)	8218	0.21066	17.5745	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.645	6.639	(1.147)	70441	1.43345	119.5874
16 Pyrene	202	6.809	6.809	(0.881)	58762	1.34510	112.2165
17 Benzo(a)anthracene	228	7.727	7.721	(0.999)	36950	0.78754	65.7014
19 Chrysene	228	7.751	7.751	(1.002)	58477	1.24542	103.9008
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	71881	1.80651	150.7104(M)
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	36454	0.89308	74.5062(M)
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	31175	0.80661	67.2930
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.132)	24513	0.67421	56.2472(M)
25 Dibenzo(a,h)anthracene	278	10.109	10.121	(1.133)	8260	0.23226	19.3768
26 Benzo(g,h,i)perylene	276	10.444	10.456	(1.171)	28587	0.75163	62.7056

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC14028.D

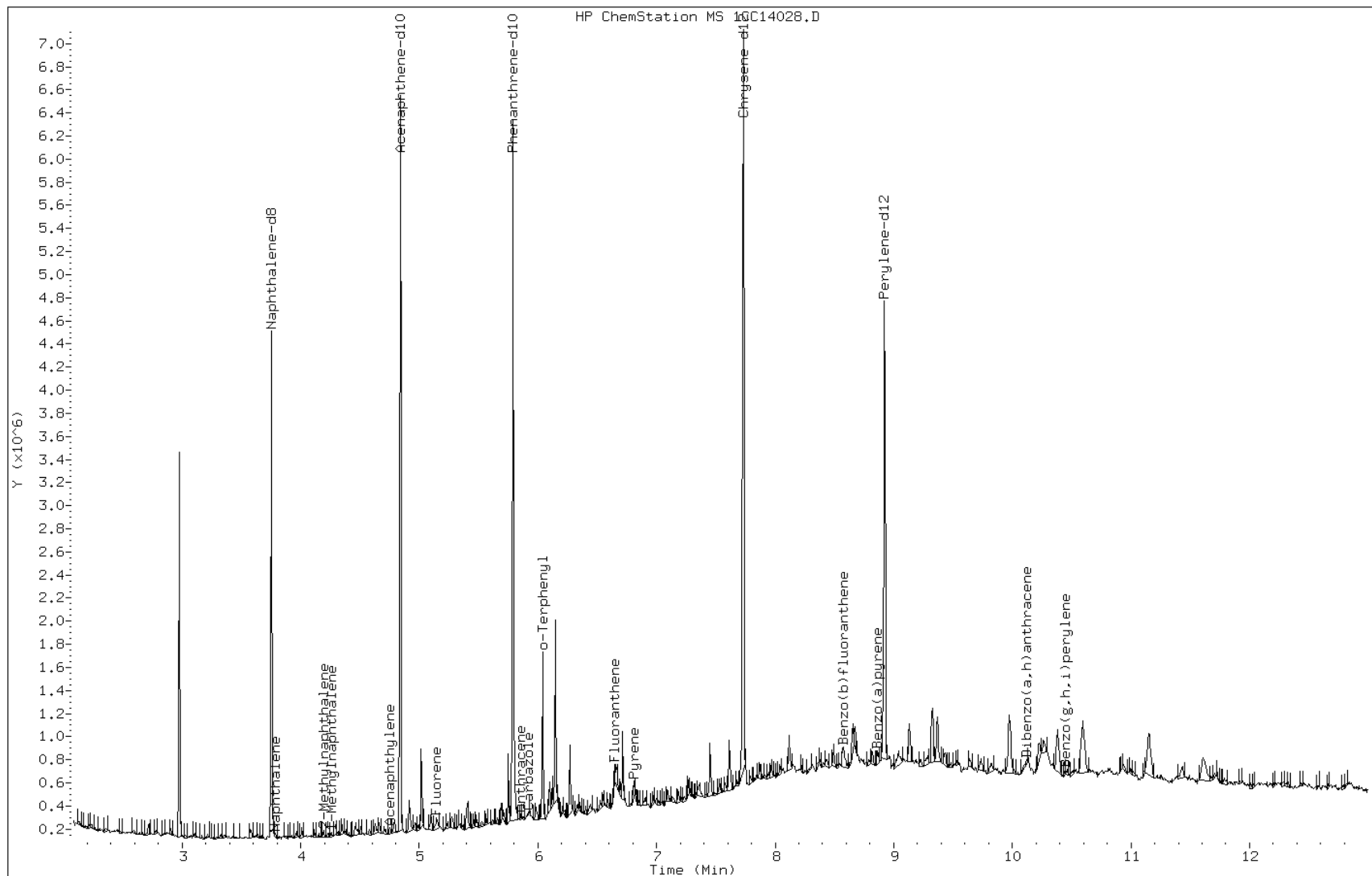
Date: 14-MAR-2013 19:14

Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

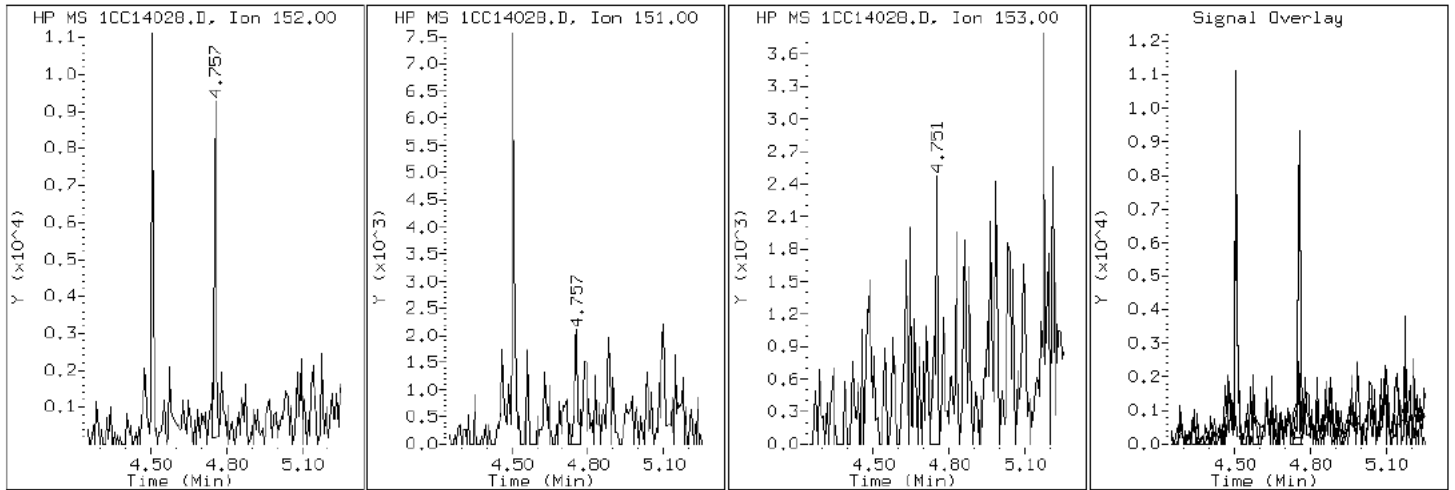
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

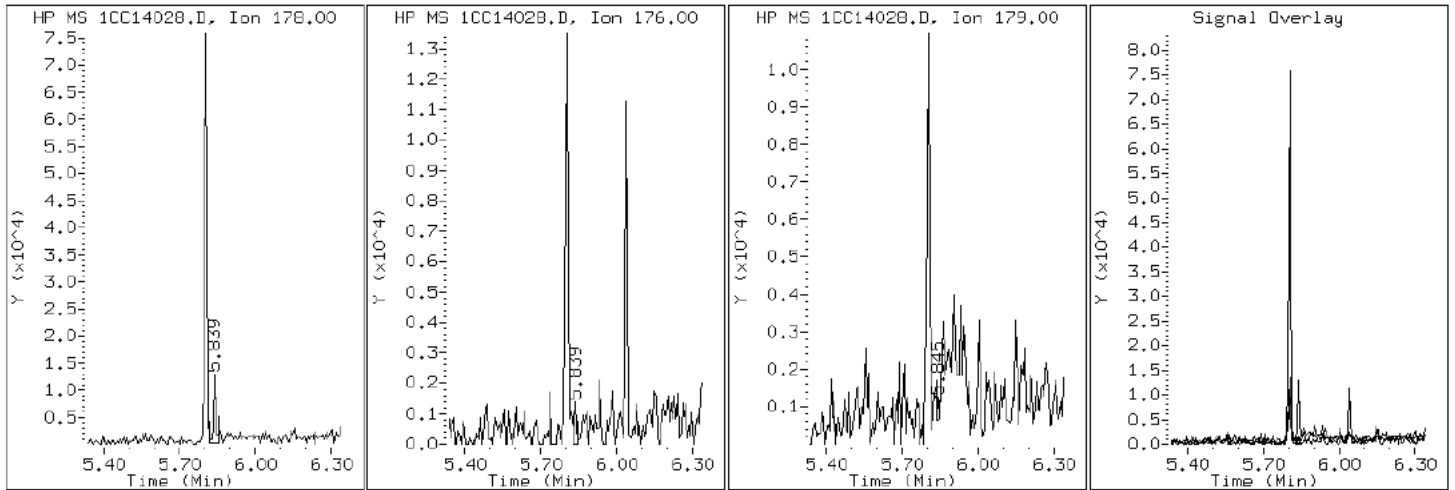
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

12 Anthracene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

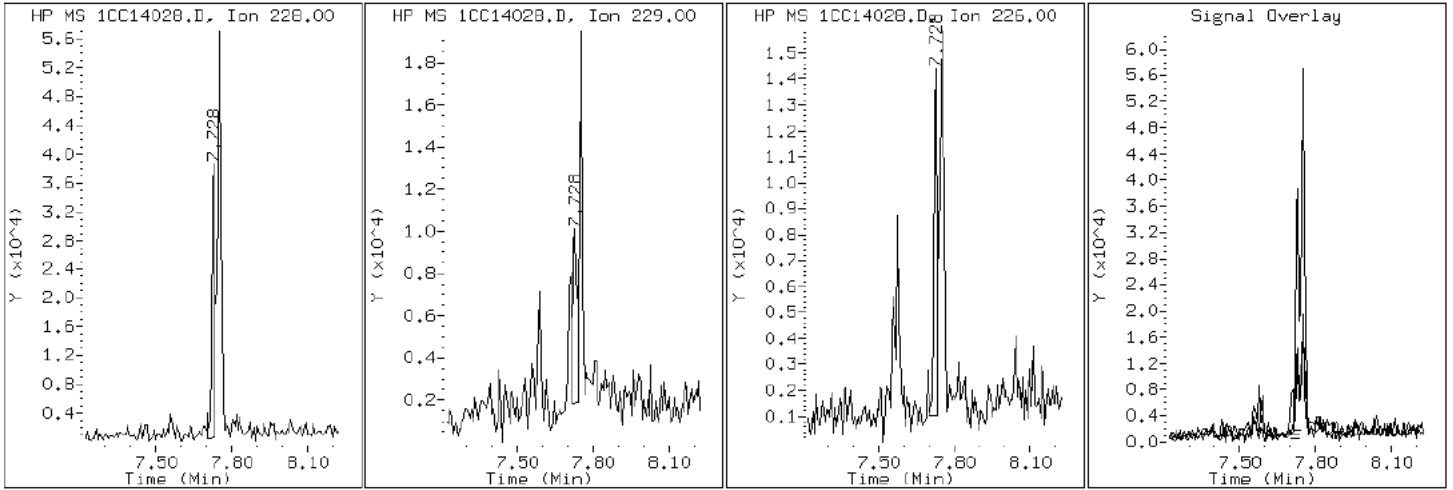
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

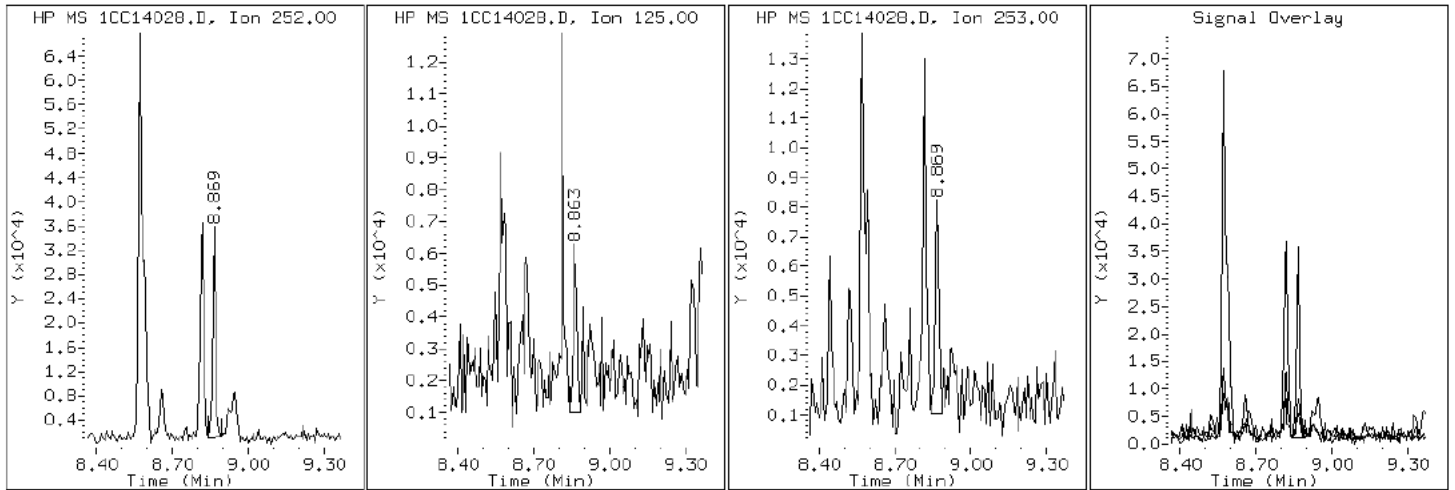
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

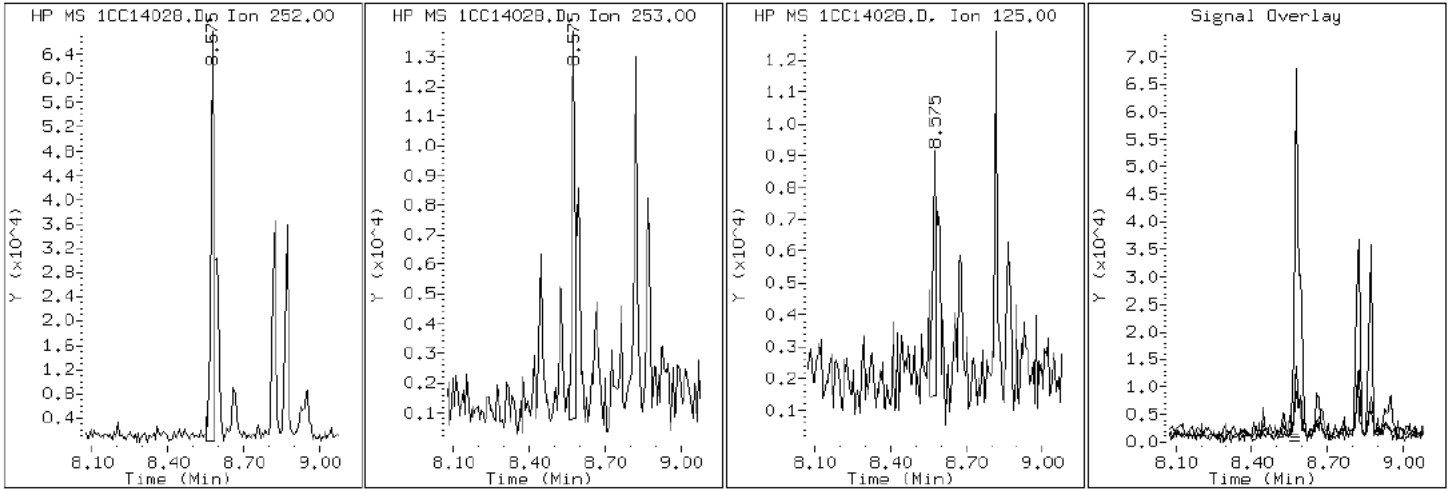
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

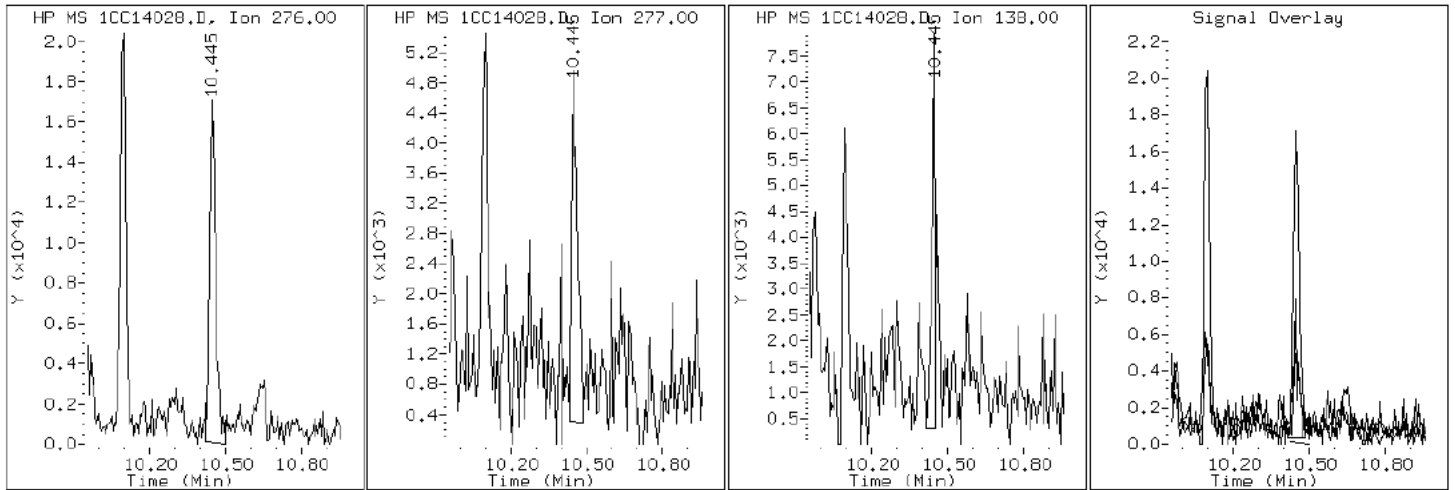
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

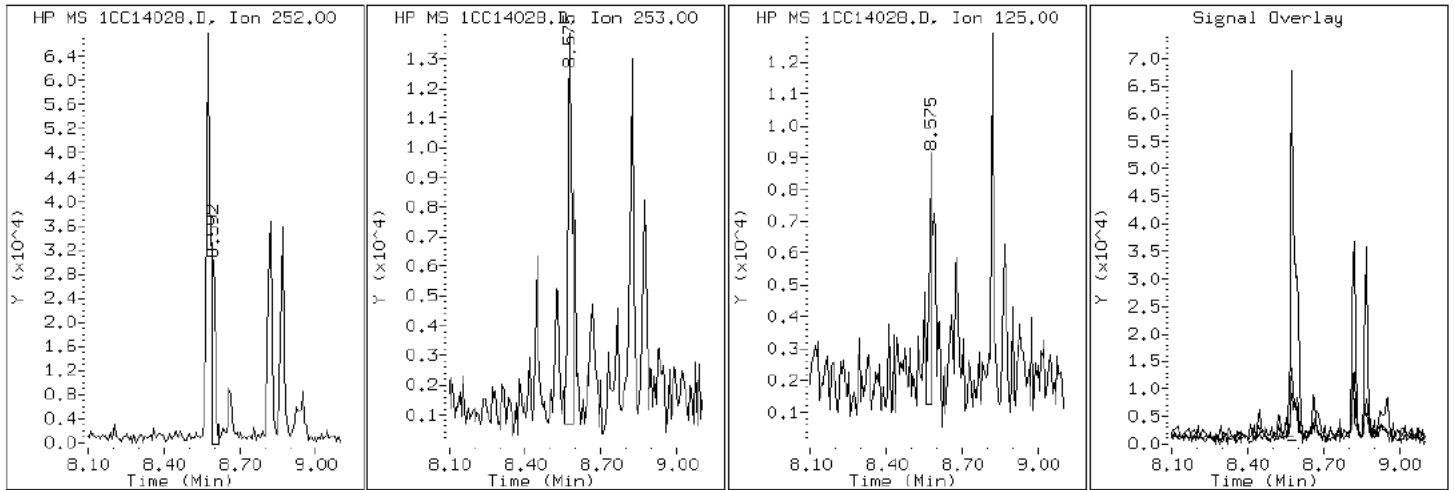
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

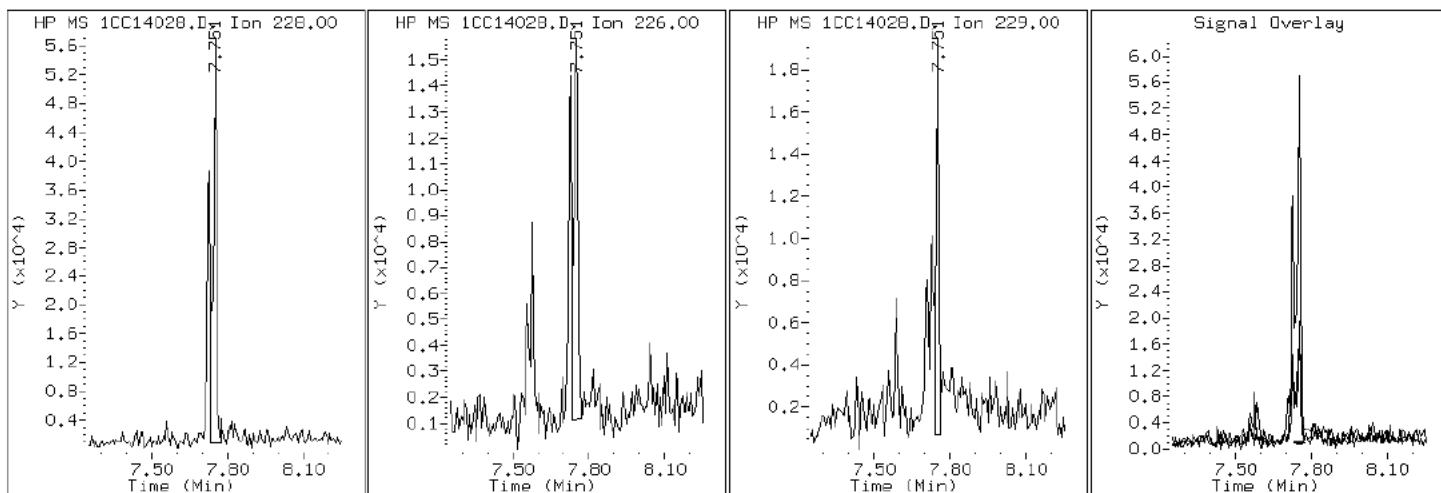
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

19 Chrysene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

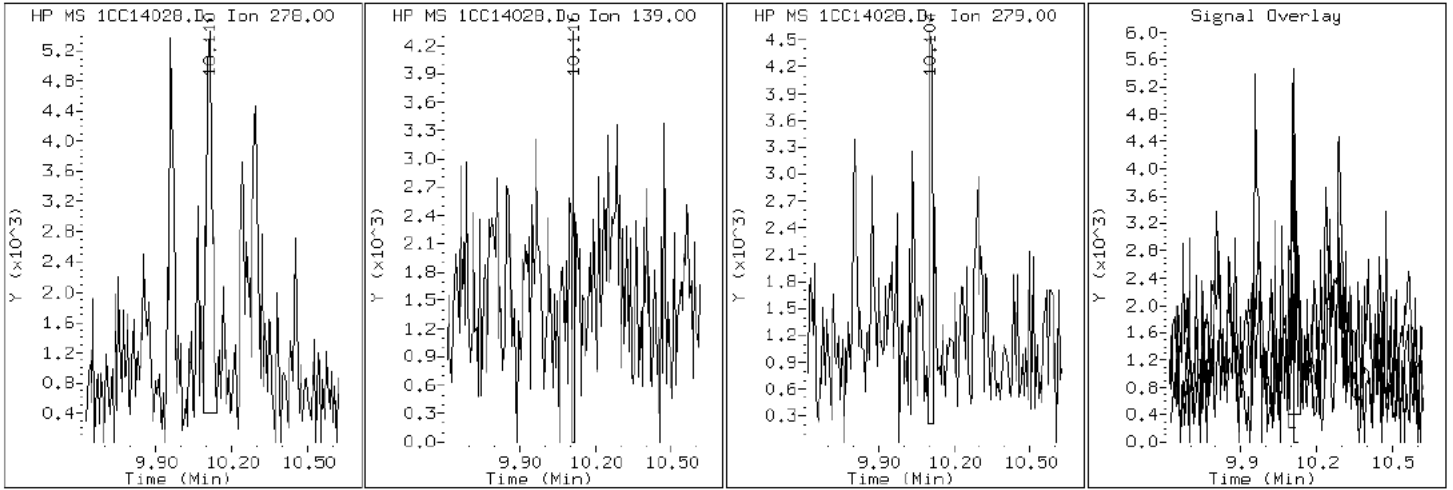
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

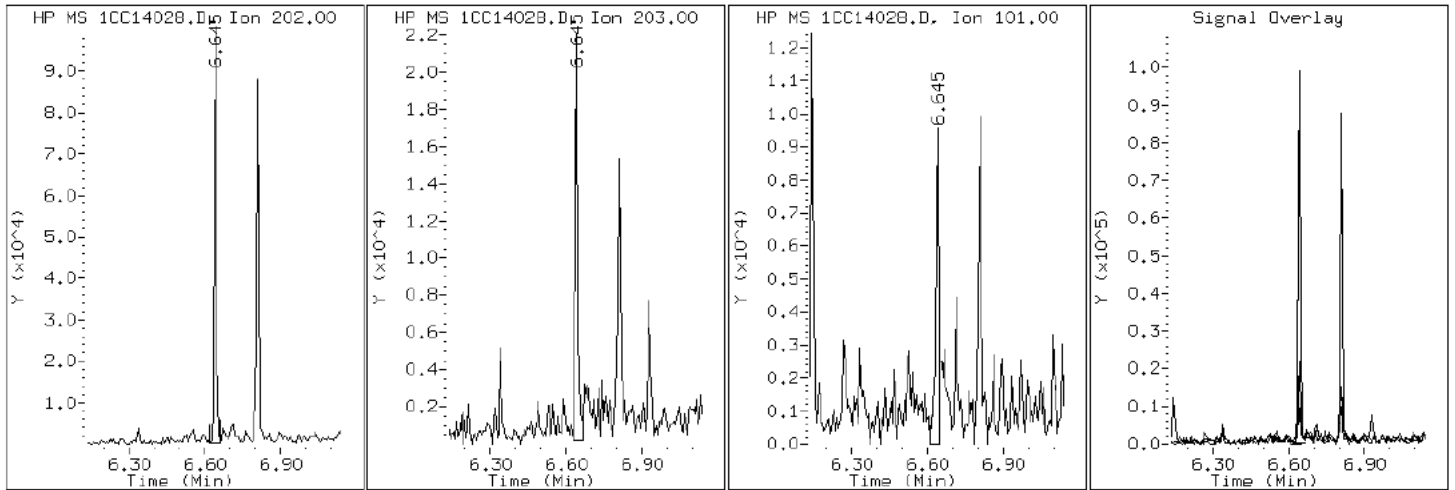
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

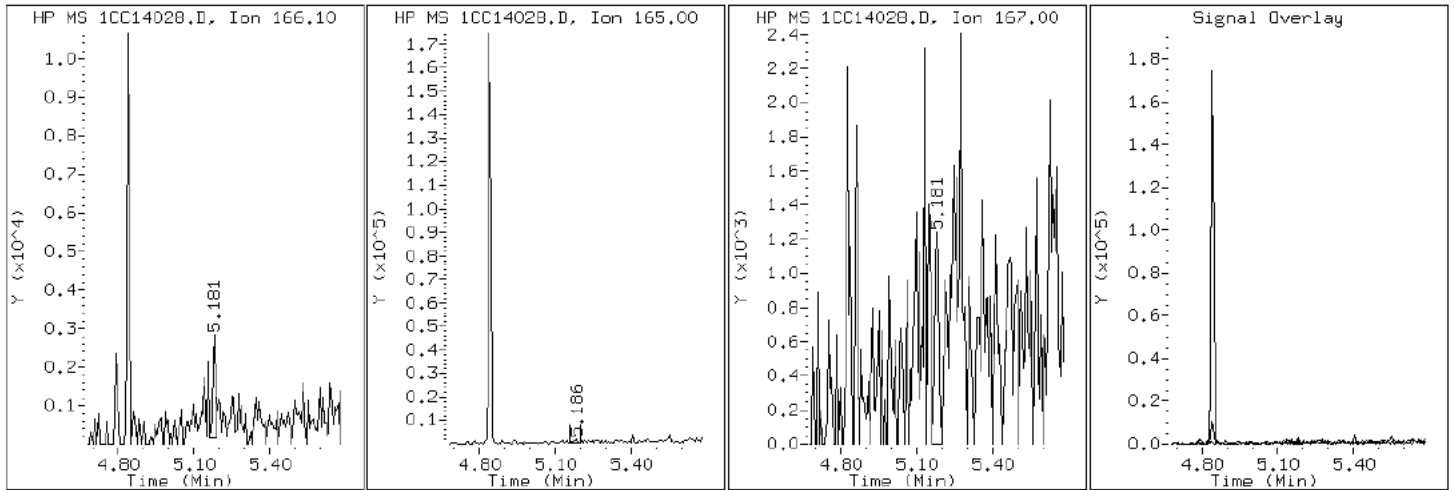
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

9 Fluorene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

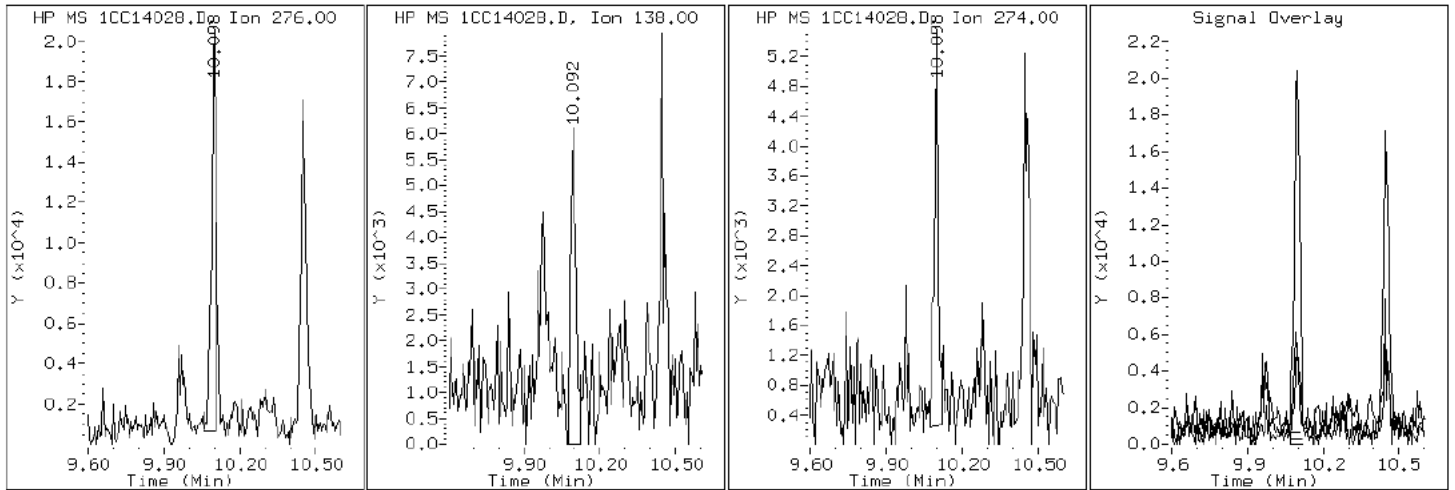
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

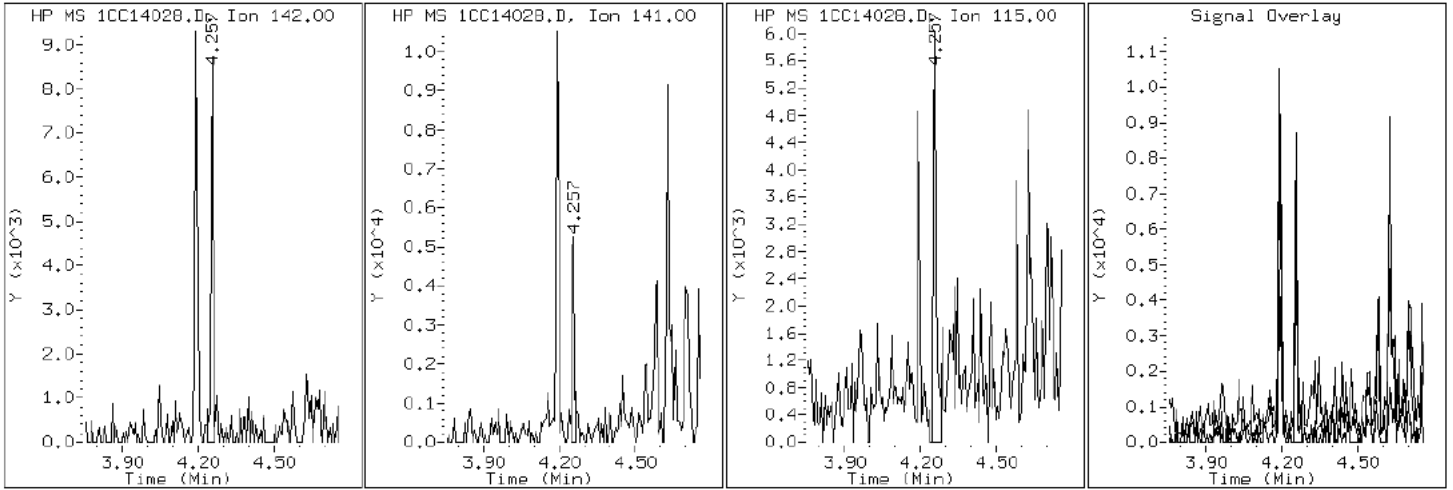
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

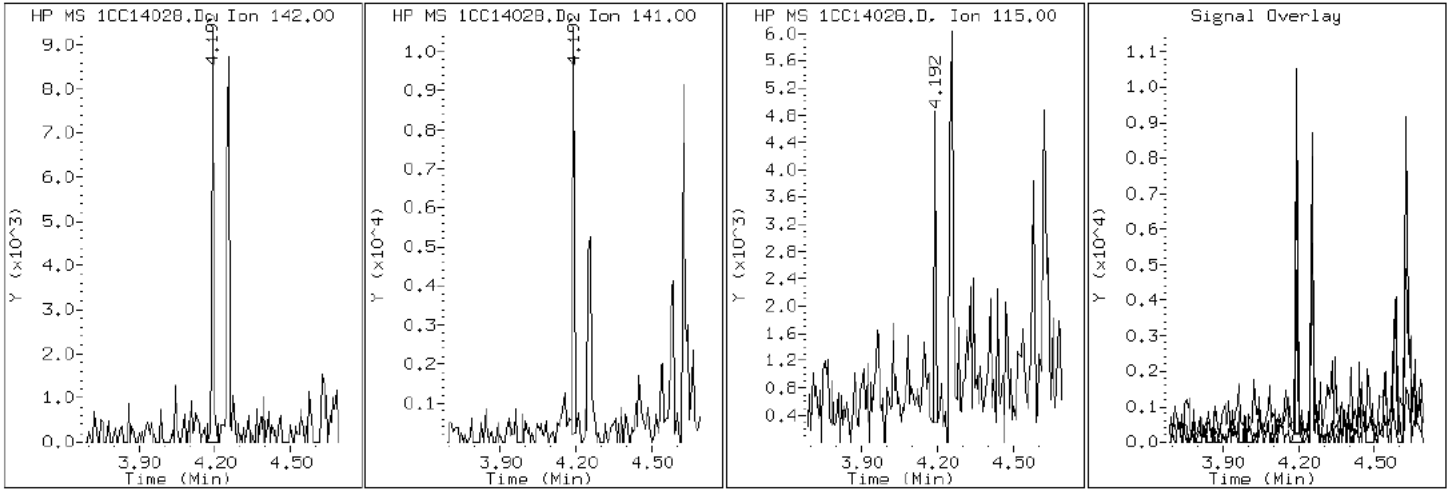
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

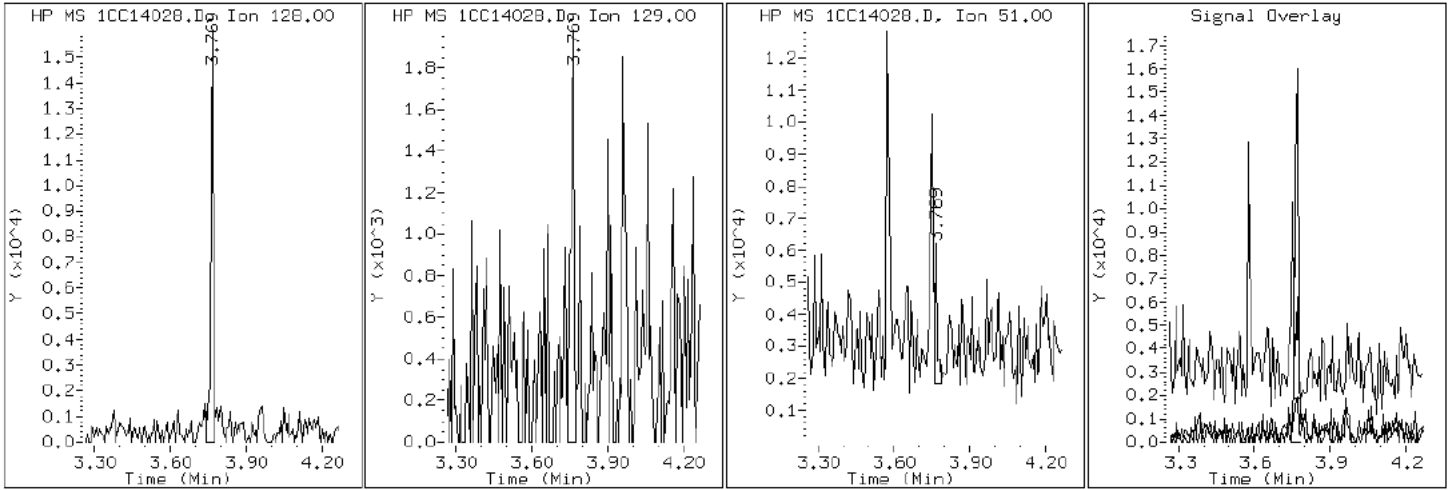
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

2 Naphthalene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

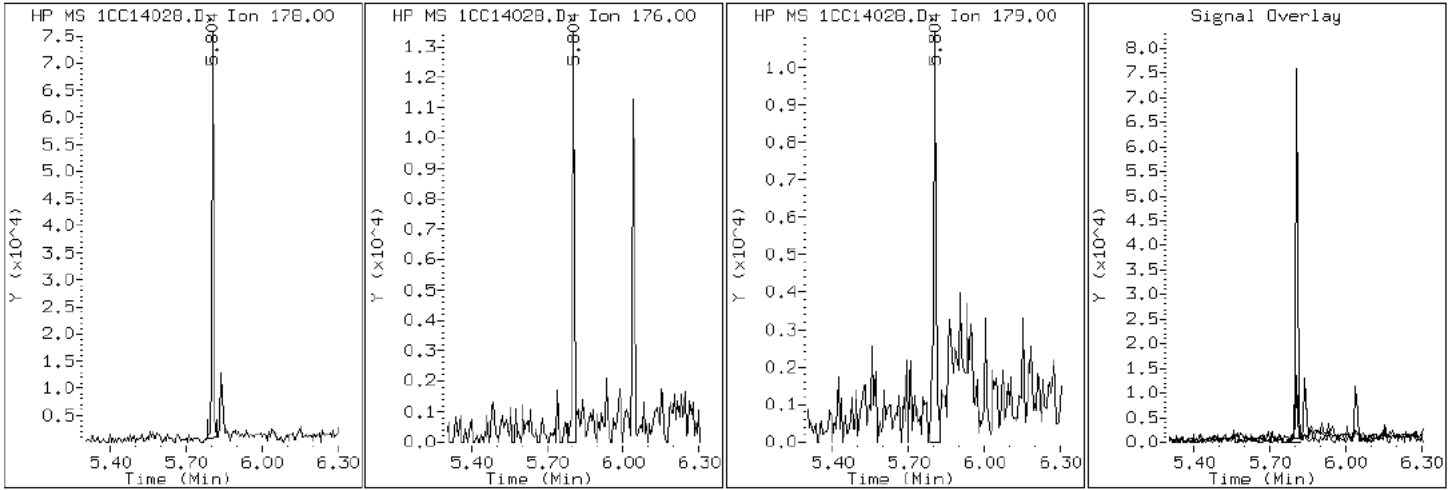
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14028.D

Date: 14-MAR-2013 19:14

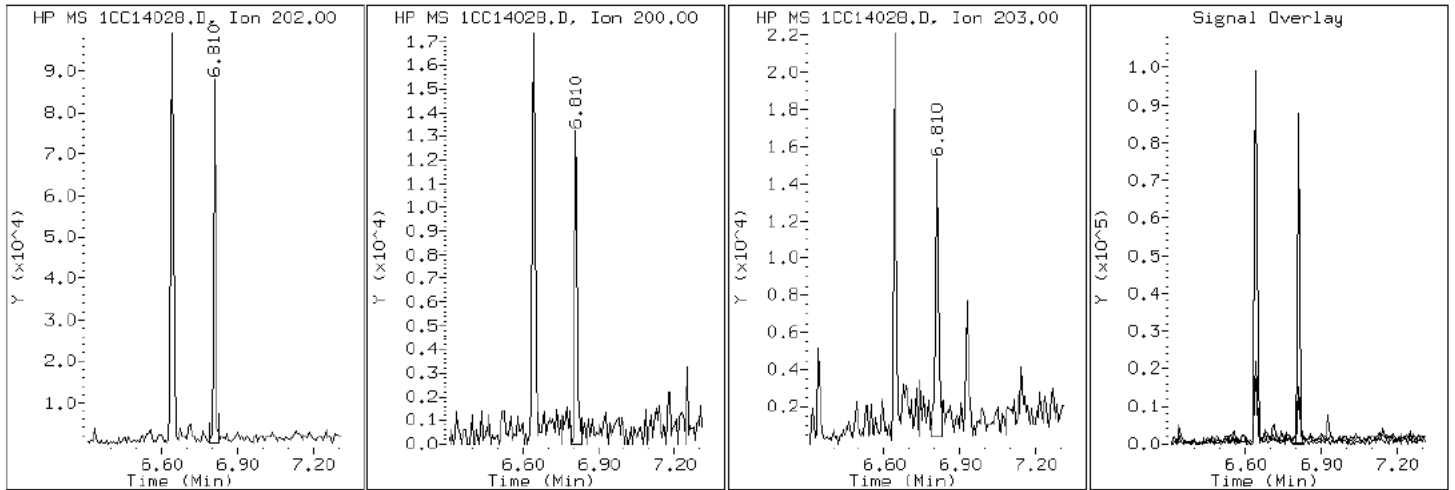
Client ID: HP0255C-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-30-a

Operator: SCC

16 Pyrene

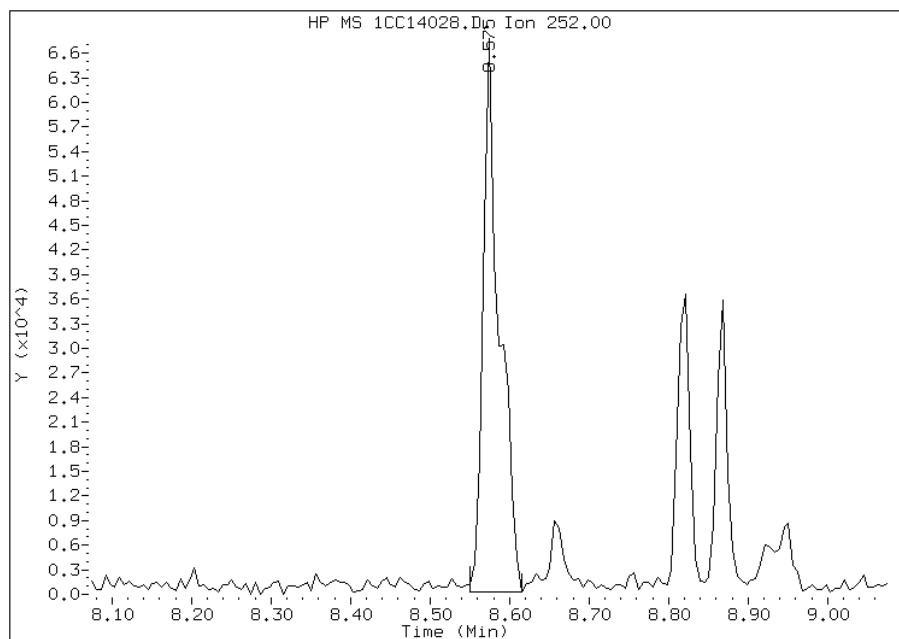


Manual Integration Report

Data File: 1CC14028.D
Inj. Date and Time: 14-MAR-2013 19:14
Instrument ID: BSMC5973.i
Client ID: HP0255C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

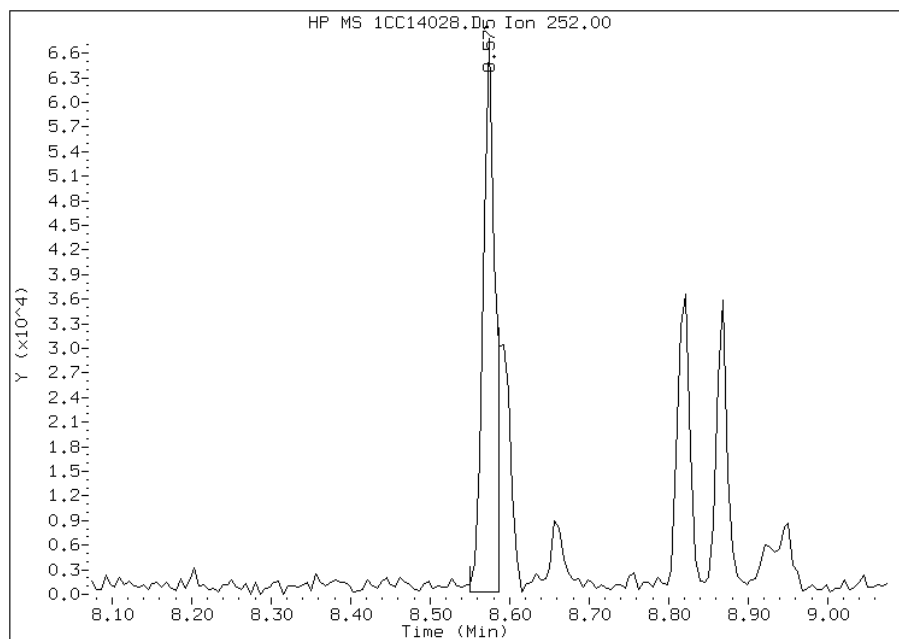
Processing Integration Results

RT: 8.57
Response: 96969
Amount: 2
Conc: 203



Manual Integration Results

RT: 8.57
Response: 71881
Amount: 2
Conc: 151



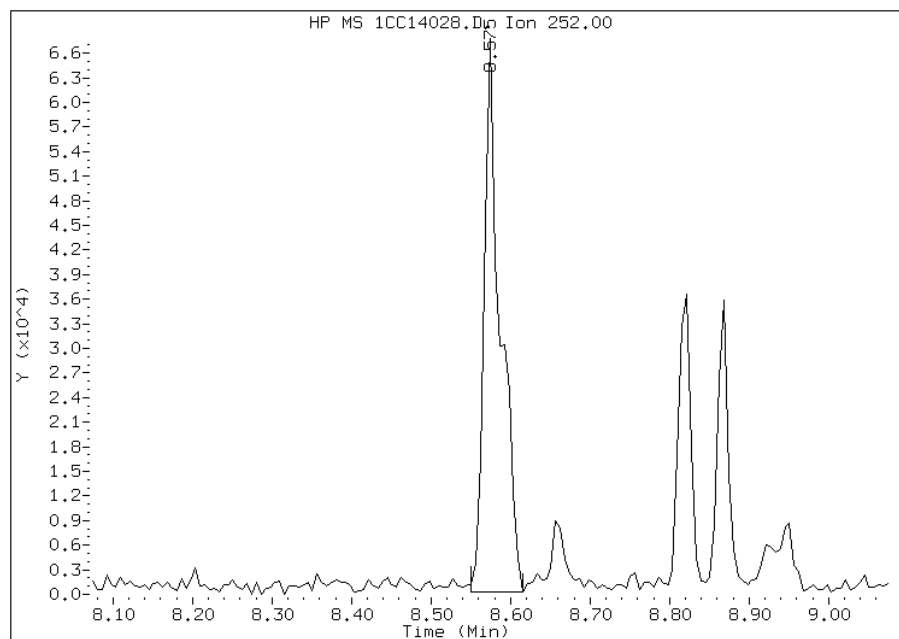
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14028.D
Inj. Date and Time: 14-MAR-2013 19:14
Instrument ID: BSMC5973.i
Client ID: HP0255C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

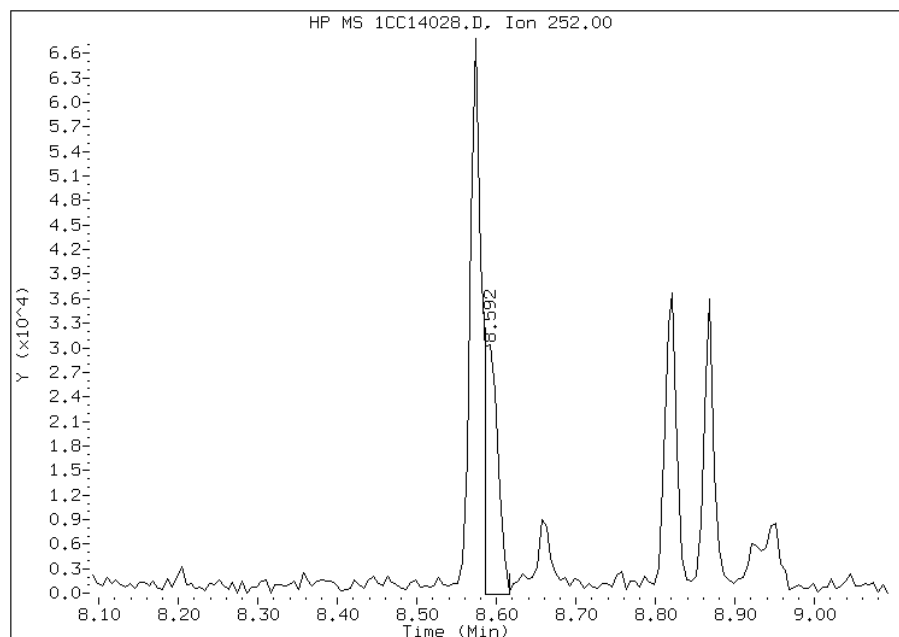
Processing Integration Results

RT: 8.57
Response: 96969
Amount: 2
Conc: 198



Manual Integration Results

RT: 8.59
Response: 36454
Amount: 1
Conc: 75



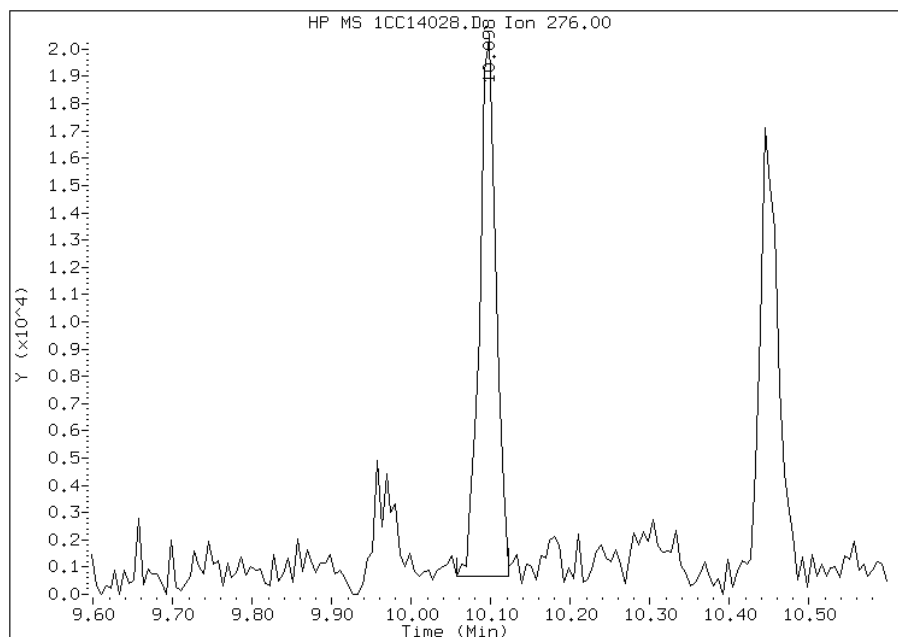
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14028.D
Inj. Date and Time: 14-MAR-2013 19:14
Instrument ID: BSMC5973.i
Client ID: HP0255C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

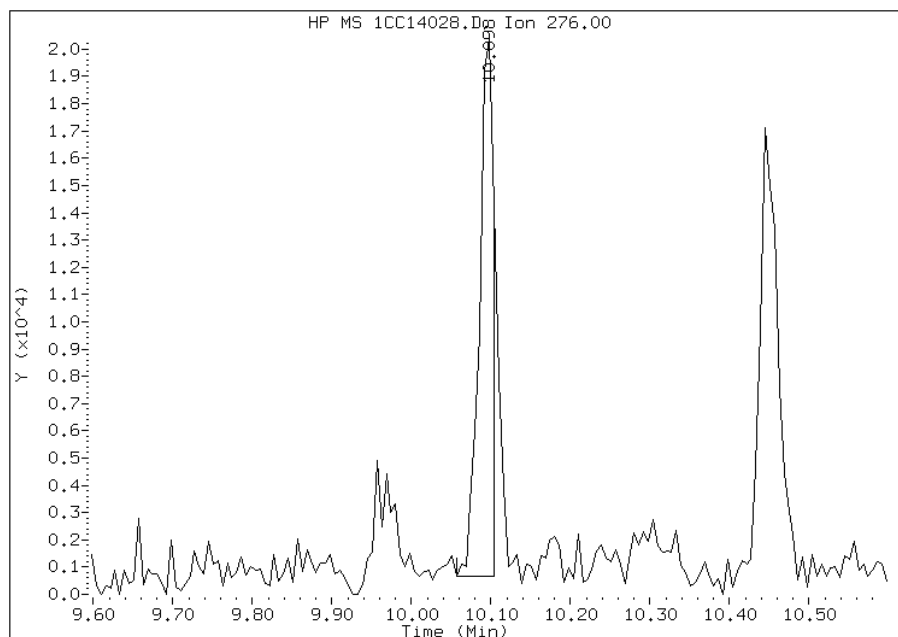
Processing Integration Results

RT: 10.10
Response: 28346
Amount: 1
Conc: 65



Manual Integration Results

RT: 10.10
Response: 24513
Amount: 1
Conc: 56



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: HP0258A-CS Lab Sample ID: 680-88067-31
 Matrix: Solid Lab File ID: 1CC14029.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 15:00
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.38(g) Date Analyzed: 03/14/2013 19:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 21.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	8.7	J	50	6.2
120-12-7	Anthracene	14		10	5.2
56-55-3	Benzo[a]anthracene	56		10	4.9
50-32-8	Benzo[a]pyrene	62		13	6.5
205-99-2	Benzo[b]fluoranthene	120		15	7.6
191-24-2	Benzo[g,h,i]perylene	48		25	5.5
207-08-9	Benzo[k]fluoranthene	47		10	4.5
218-01-9	Chrysene	100		11	5.6
53-70-3	Dibenz(a,h)anthracene	21	J	25	5.1
206-44-0	Fluoranthene	67		25	5.0
86-73-7	Fluorene	11	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	44		25	8.9
90-12-0	1-Methylnaphthalene	46	J	50	5.5
91-57-6	2-Methylnaphthalene	55		50	8.9
91-20-3	Naphthalene	57		50	5.5
85-01-8	Phenanthrene	66		10	4.9
129-00-0	Pyrene	75		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14029.D
 Lab Smp Id: 680-88067-A-31-A Client Smp ID: HP0258A-CS
 Inj Date : 14-MAR-2013 19:32
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-31-a
 Misc Info : 680-88067-A-31-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 29
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	21.814	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	1079706	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	864262	40.0000	
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1583517	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	151385	6.33187	526.5604
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1626206	40.0000	
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1519984	40.0000	
2 Naphthalene	128		3.769	3.768	(1.005)	19270	0.68555	57.0105
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	12480	0.66561	55.3520
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	9524	0.55772	46.3803
5 Acenaphthylene	152		4.757	4.751	(0.983)	3656	0.10492	8.7254
9 Fluorene	166		5.180	5.180	(1.070)	3487	0.12731	10.5870
11 Phenanthrene	178		5.804	5.804	(1.002)	36252	0.79173	65.8405
12 Anthracene	178		5.839	5.839	(1.008)	7721	0.17242	14.3383
13 Carbazole	167		5.945	5.945	(1.026)	5030	0.12636	10.5081(Q)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.645	6.639	(1.147)	40636	0.81039	67.3923
16 Pyrene	202	6.810	6.809	(0.881)	39293	0.89911	74.7705
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	31578	0.67280	55.9499
19 Chrysene	228	7.751	7.751	(1.002)	56361	1.19992	99.7855
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	56016	1.41017	117.2702
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	23140	0.56786	47.2234(Q)
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	28996	0.75151	62.4954
24 Indeno(1,2,3-cd)pyrene	276	10.098	10.097	(1.132)	19327	0.53248	44.2808(M)
25 Dibenzo(a,h)anthracene	278	10.115	10.121	(1.134)	8816	0.24832	20.6500
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	21917	0.57723	48.0027

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC14029.D

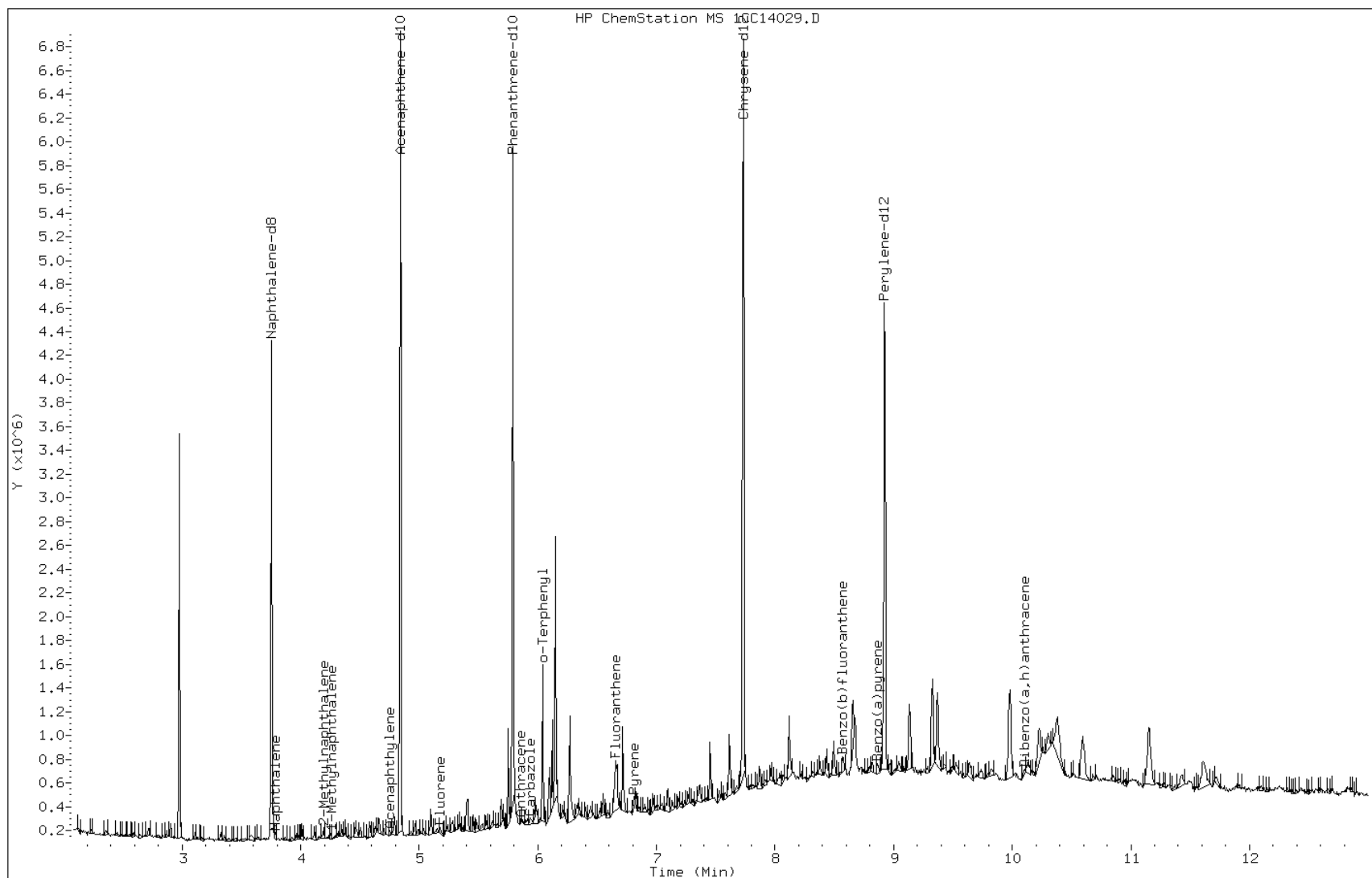
Date: 14-MAR-2013 19:32

Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

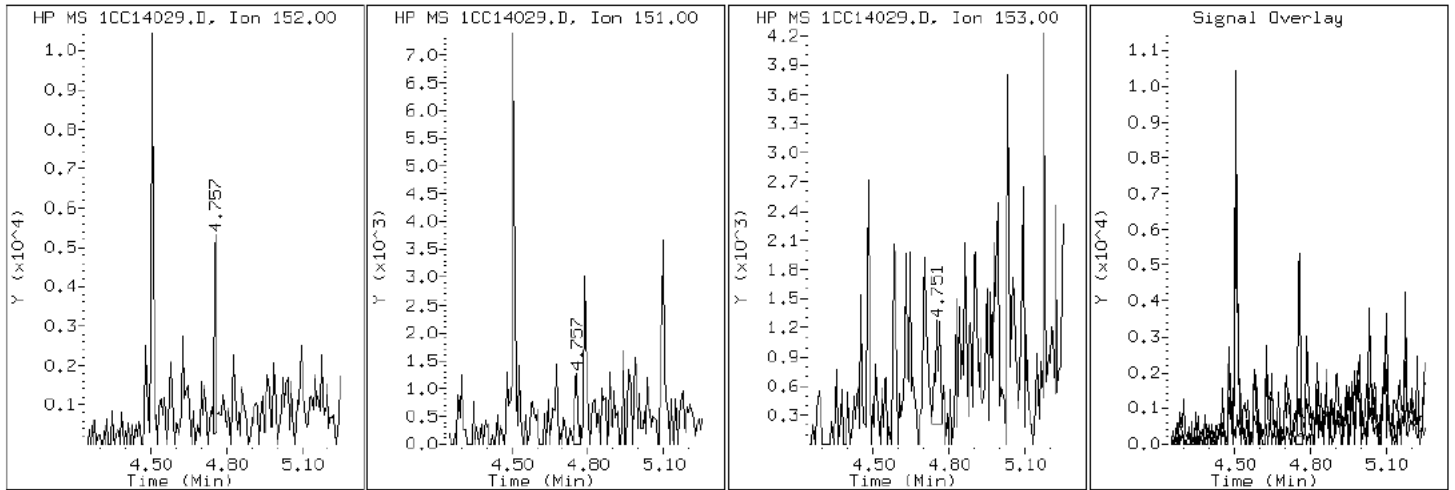
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

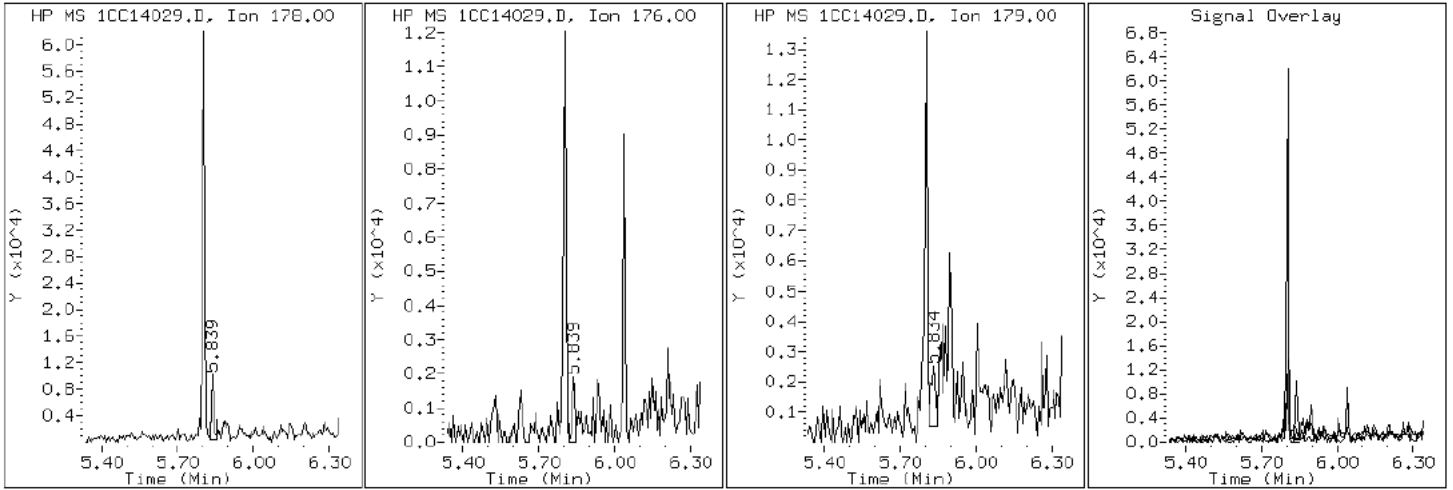
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

12 Anthracene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

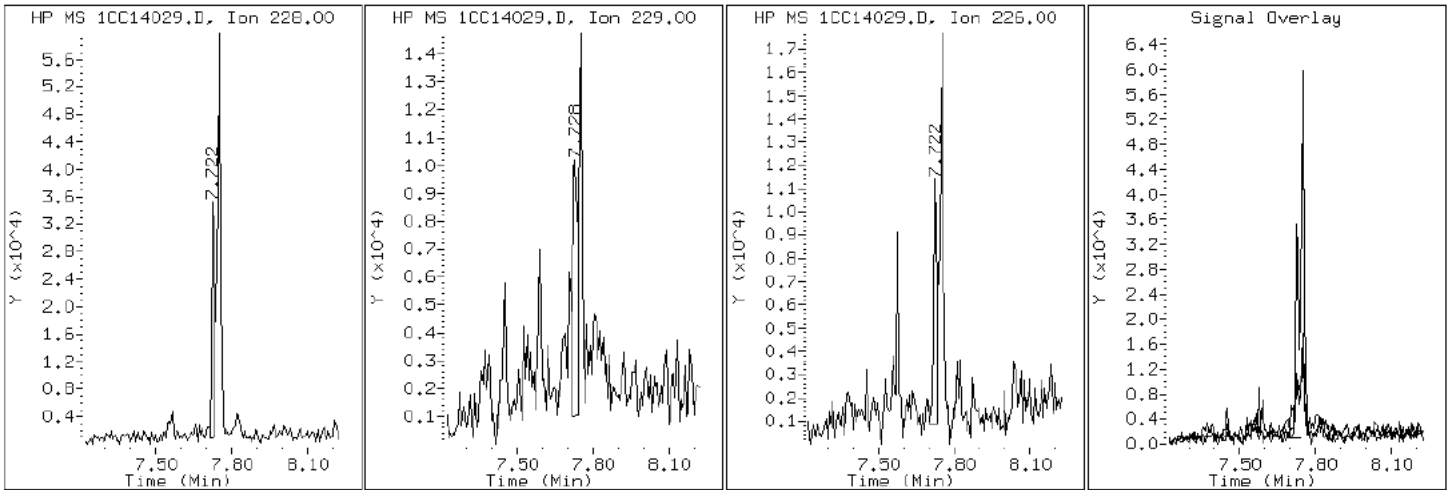
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

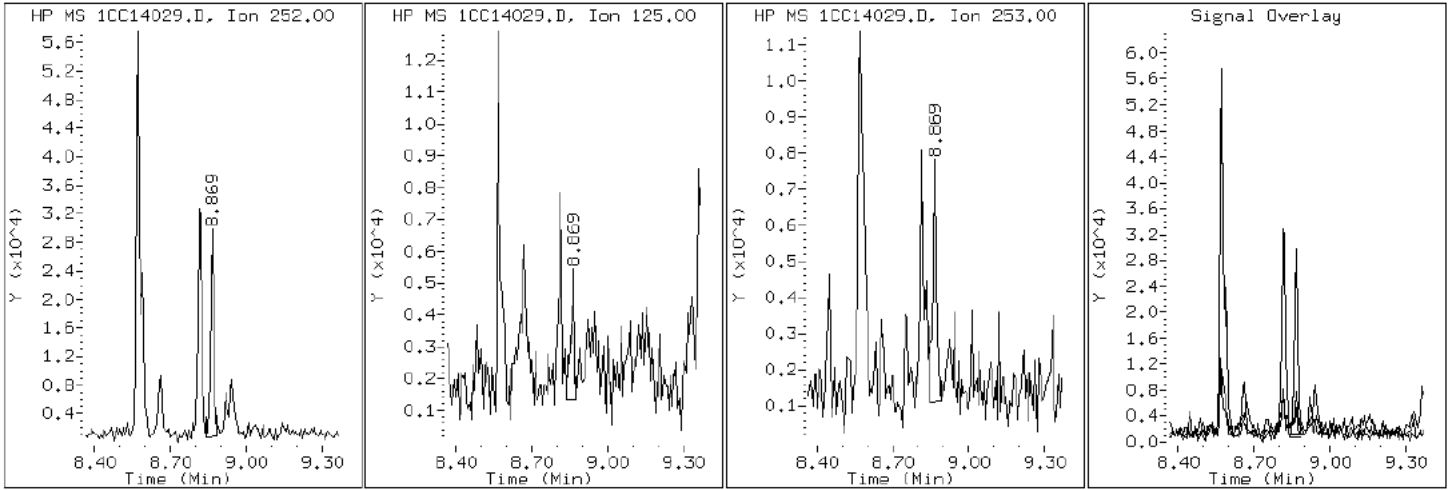
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

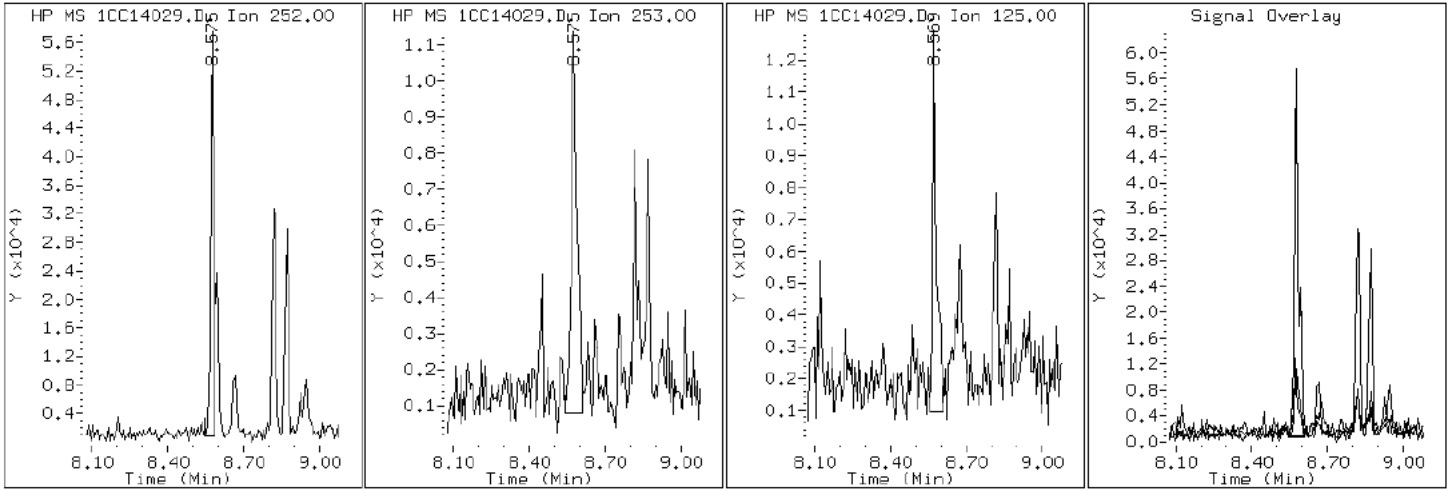
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

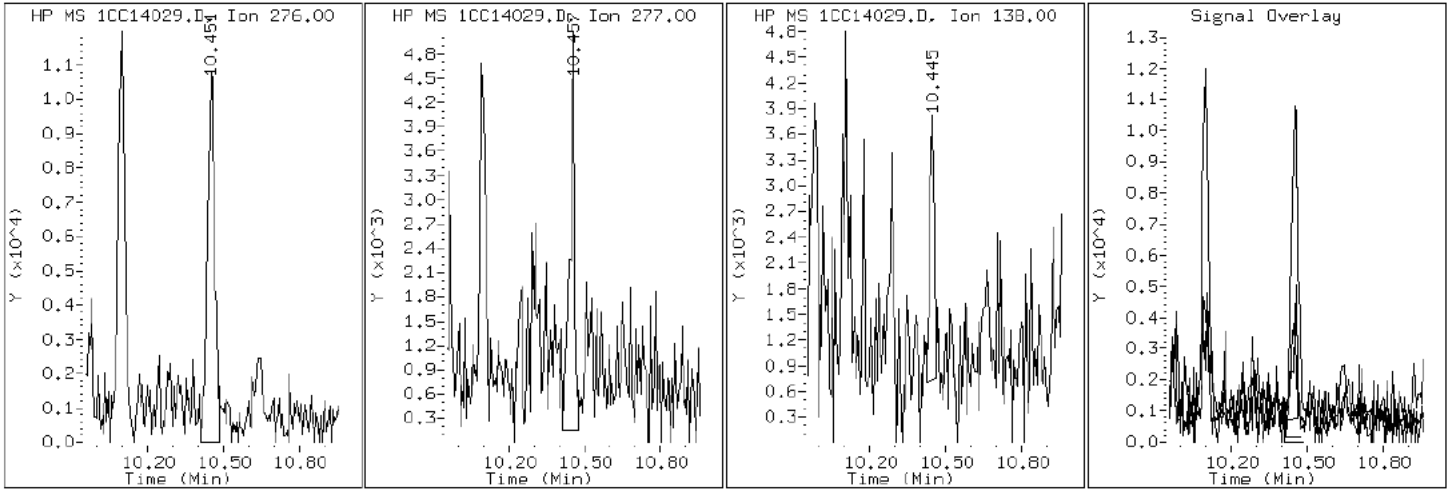
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

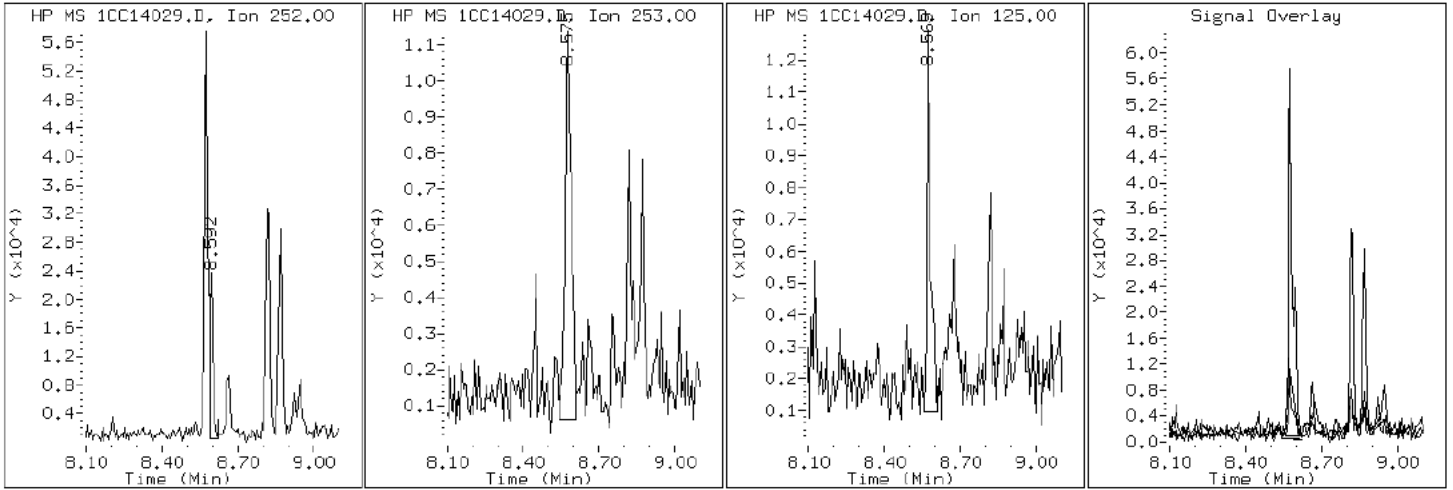
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

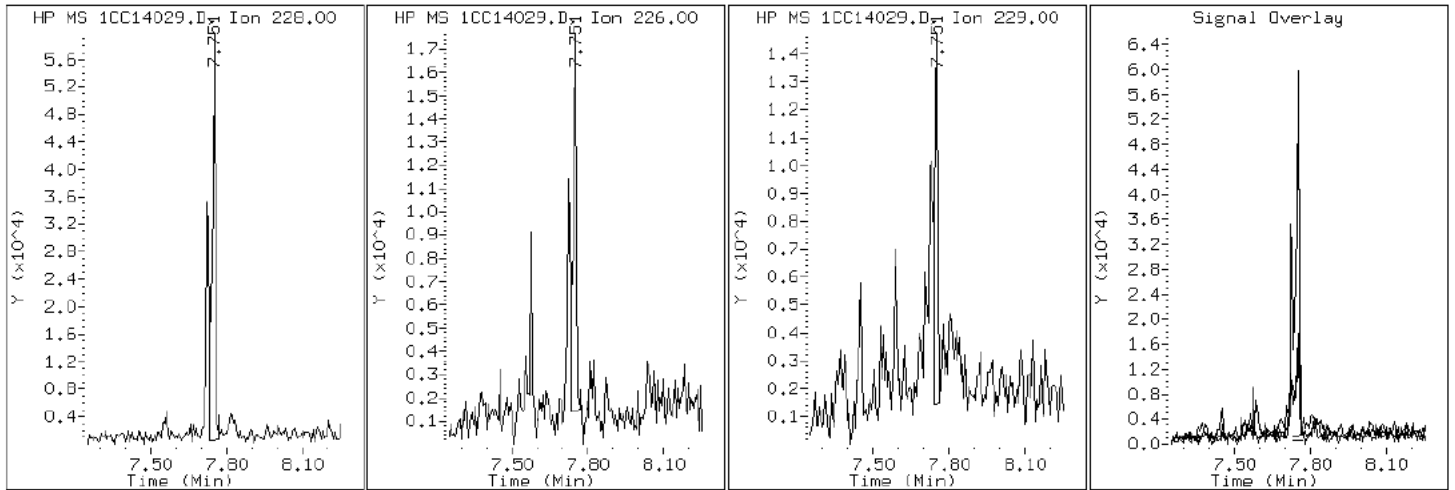
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

19 Chrysene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

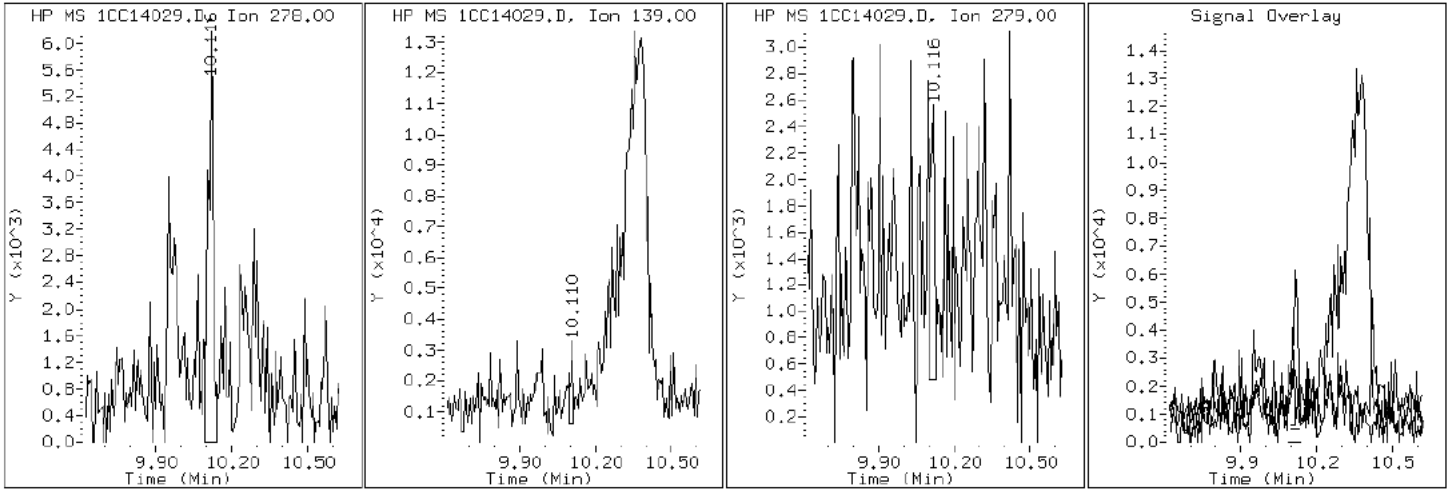
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

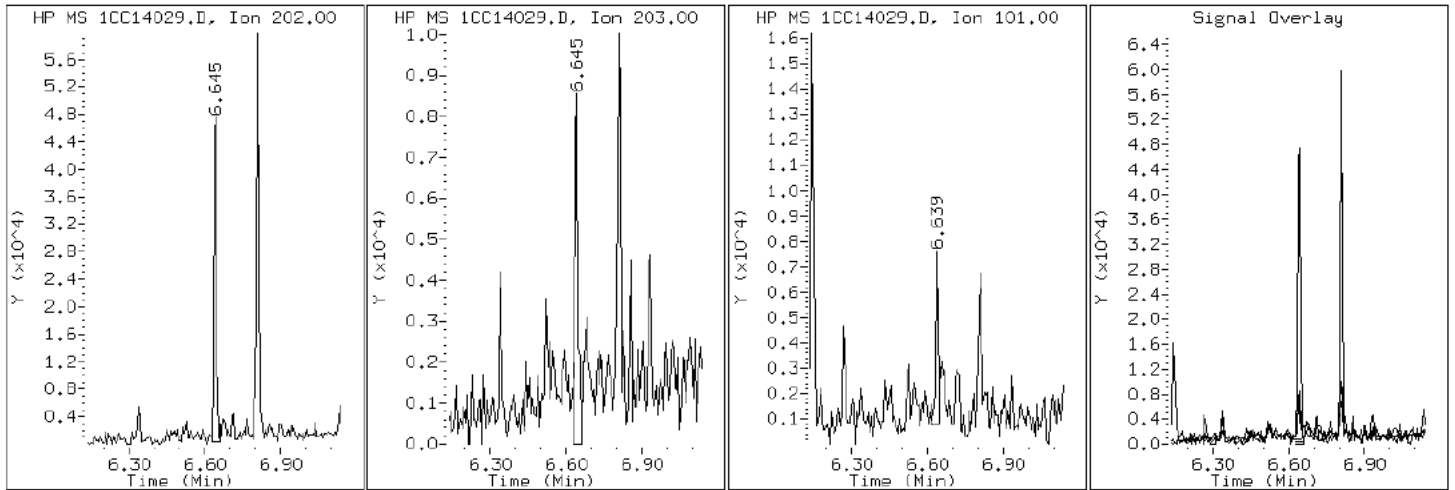
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

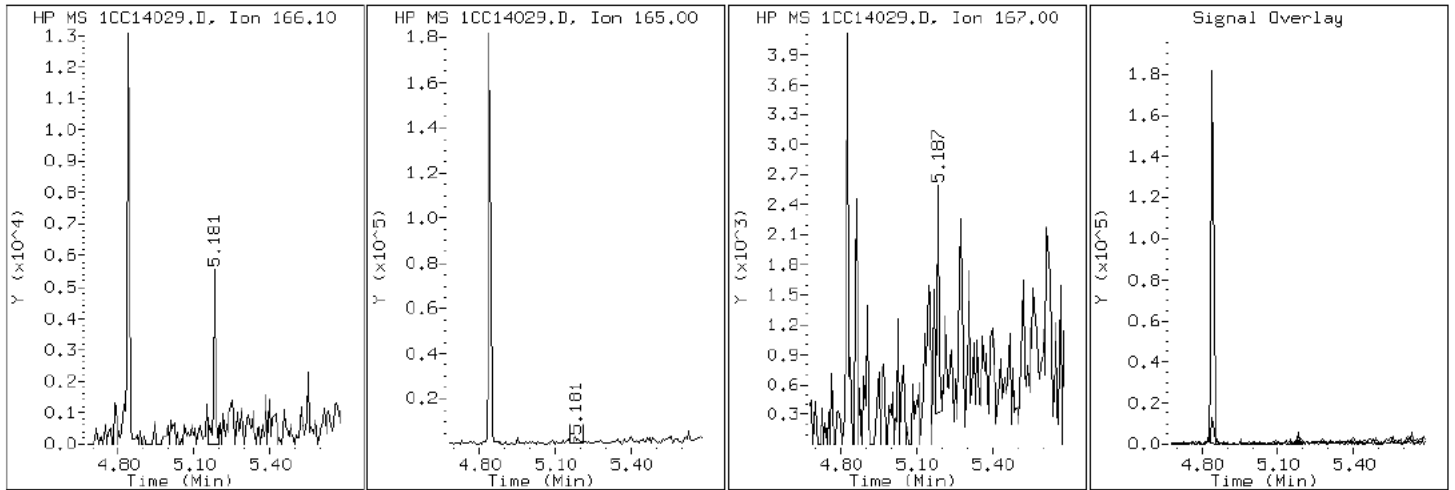
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

9 Fluorene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

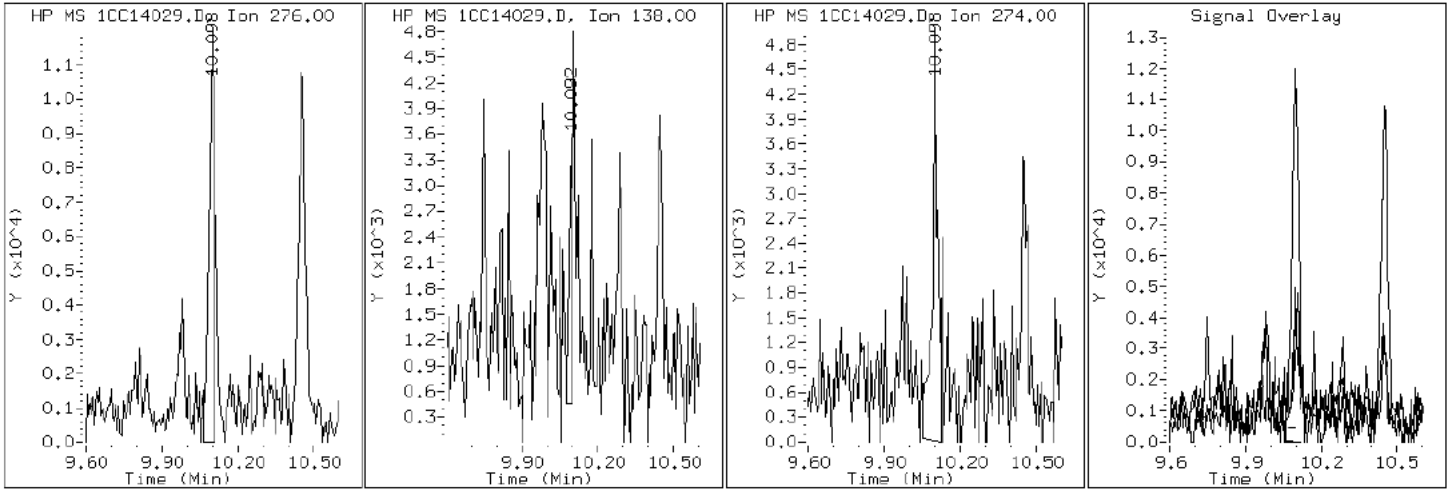
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

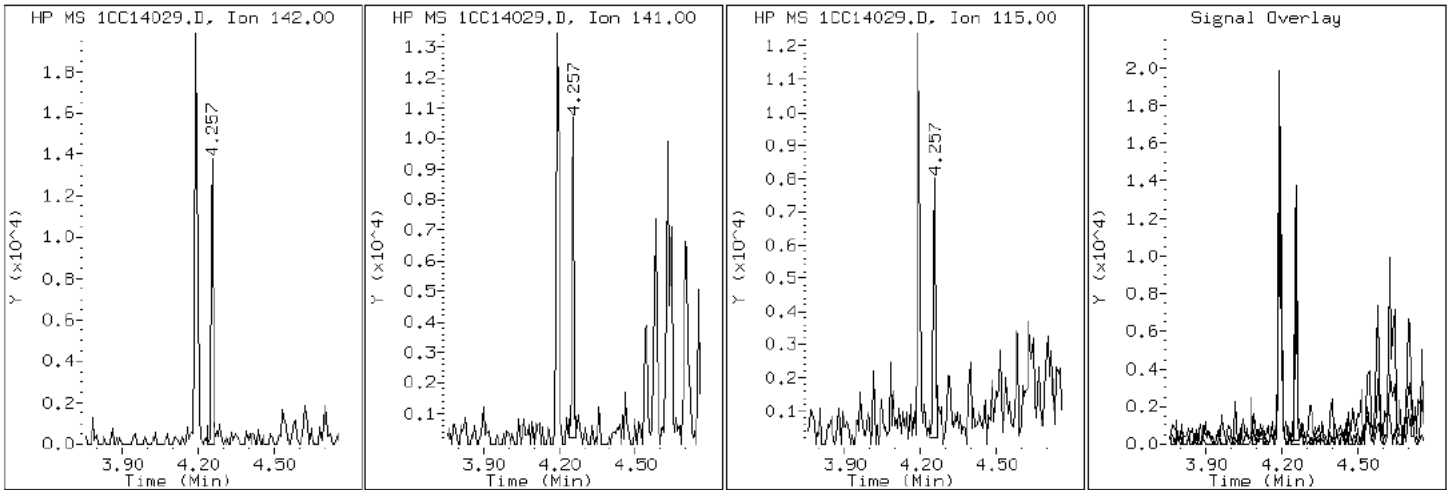
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

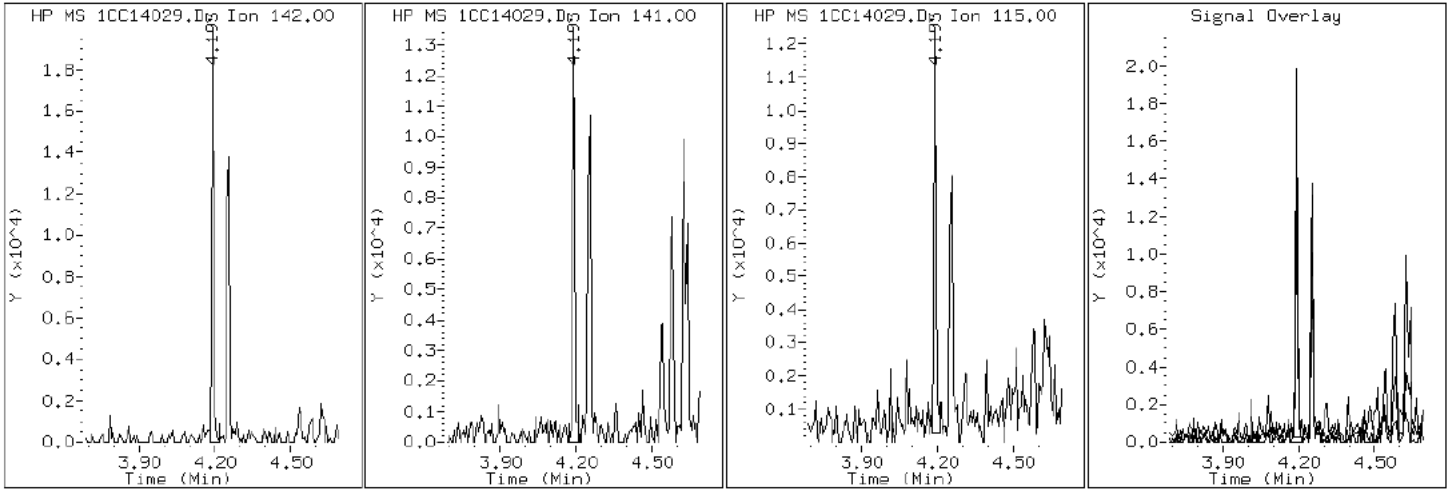
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

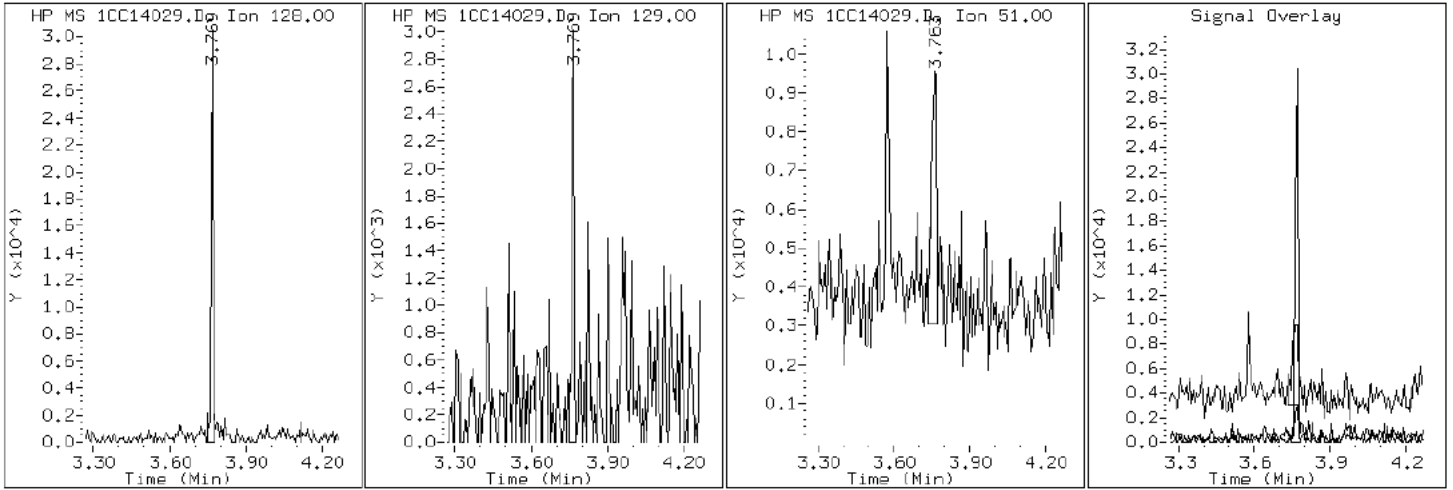
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

2 Naphthalene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

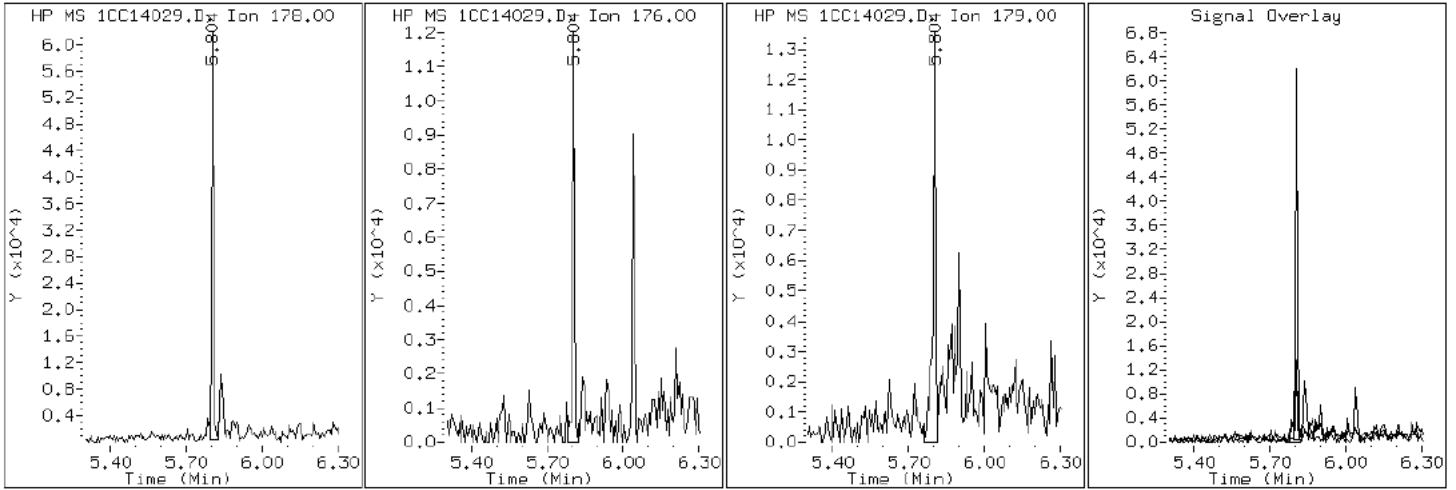
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14029.D

Date: 14-MAR-2013 19:32

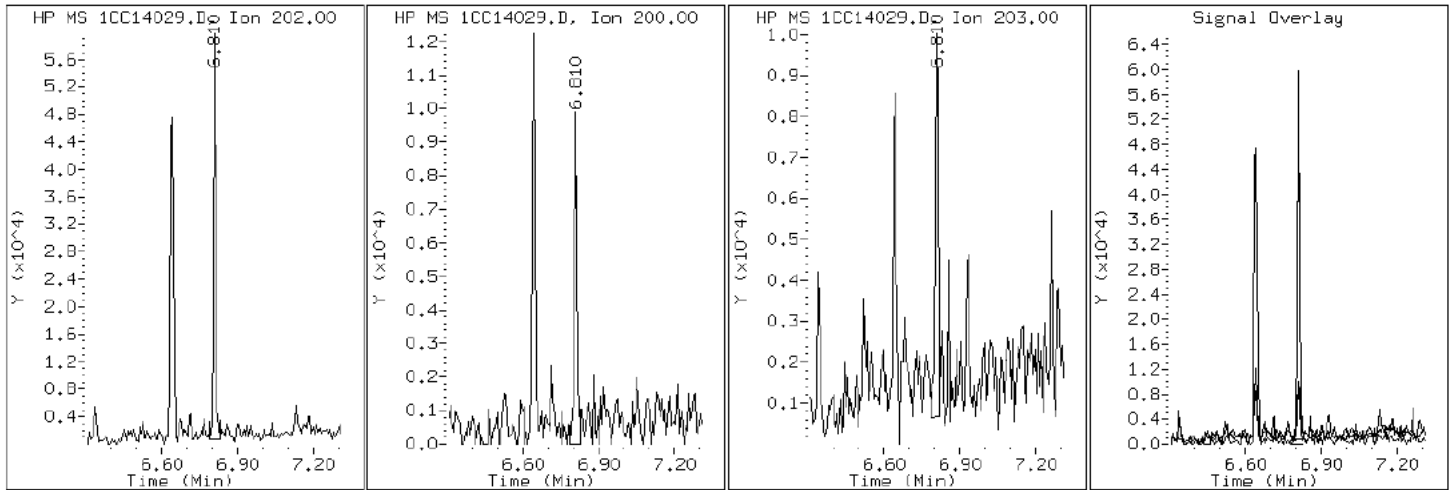
Client ID: HP0258A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-31-a

Operator: SCC

16 Pyrene

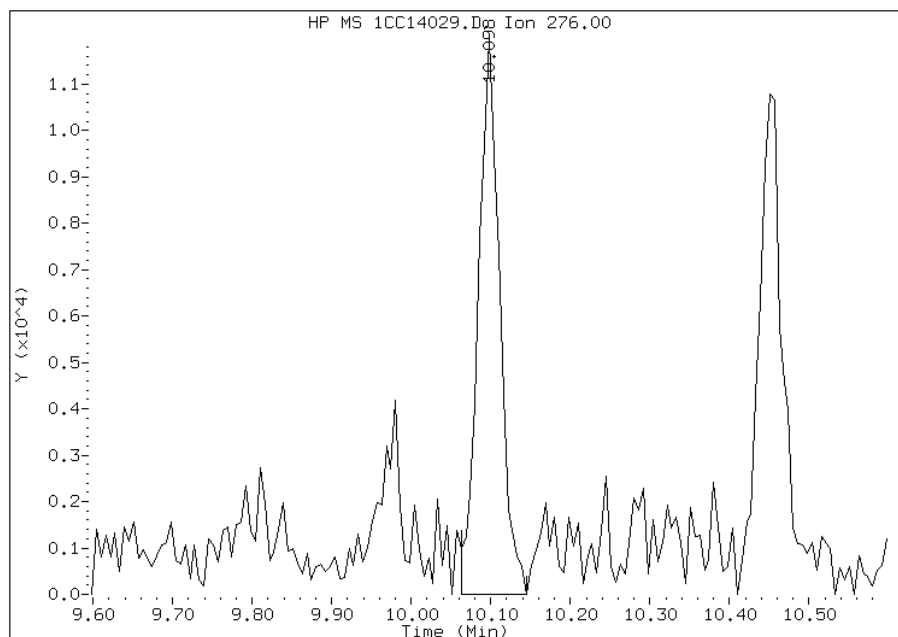


Manual Integration Report

Data File: 1CC14029.D
Inj. Date and Time: 14-MAR-2013 19:32
Instrument ID: BSMC5973.i
Client ID: HP0258A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

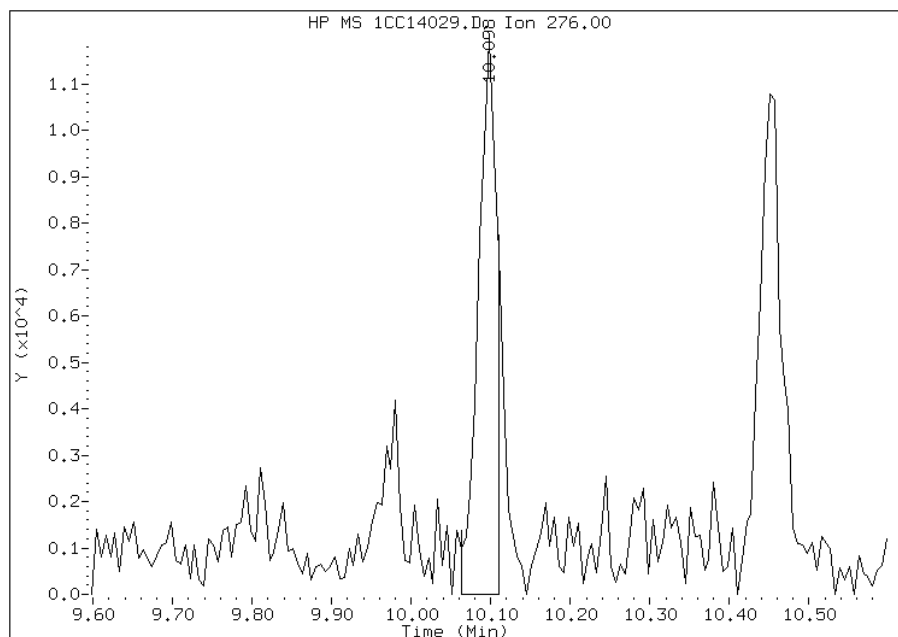
Processing Integration Results

RT: 10.10
Response: 22486
Amount: 1
Conc: 52



Manual Integration Results

RT: 10.10
Response: 19327
Amount: 1
Conc: 44



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: HP0258B-CS Lab Sample ID: 680-88067-32
 Matrix: Solid Lab File ID: 1CC14030.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 15:10
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.30 (g) Date Analyzed: 03/14/2013 19:51
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 19.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	11	J	49	6.1
120-12-7	Anthracene	19		10	5.1
56-55-3	Benzo[a]anthracene	110		9.8	4.8
50-32-8	Benzo[a]pyrene	110		13	6.3
205-99-2	Benzo[b]fluoranthene	200		15	7.4
191-24-2	Benzo[g,h,i]perylene	81		24	5.4
207-08-9	Benzo[k]fluoranthene	84		9.8	4.4
218-01-9	Chrysene	160		11	5.5
53-70-3	Dibenz(a,h)anthracene	26		24	5.0
206-44-0	Fluoranthene	190		24	4.9
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	71		24	8.7
90-12-0	1-Methylnaphthalene	38	J	49	5.4
91-57-6	2-Methylnaphthalene	31	J	49	8.7
91-20-3	Naphthalene	53		49	5.4
85-01-8	Phenanthrene	99		9.8	4.8
129-00-0	Pyrene	180		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14030.D
 Lab Smp Id: 680-88067-A-32-A Client Smp ID: HP0258B-CS
 Inj Date : 14-MAR-2013 19:51
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-32-a
 Misc Info : 680-88067-A-32-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 30
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	Weight Extracted
M	19.608	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	1056244	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	820131	40.0000		
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1537186	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.043)	171062	7.37054	599.2307	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1613965	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1525219	40.0000		
2 Naphthalene	128		3.768	3.768	(1.005)	18083	0.65761	53.4642	
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	7062	0.38501	31.3016(Q)	
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	7741	0.46338	37.6731	
5 Acenaphthylene	152		4.757	4.751	(0.983)	4458	0.13482	10.9613	
11 Phenanthrene	178		5.804	5.804	(1.002)	54045	1.21590	98.8534	
12 Anthracene	178		5.839	5.839	(1.008)	10356	0.23823	19.3683	
13 Carbazole	167		5.945	5.945	(1.026)	8048	0.20827	16.9324(Q)	
15 Fluoranthene	202		6.639	6.639	(1.146)	115406	2.37087	192.7537	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
16 Pyrene	202		6.809	6.809	(0.881)	98346	2.26745	184.3453
17 Benzo(a)anthracene	228		7.721	7.721	(0.998)	62485	1.34139	109.0563
19 Chrysene	228		7.751	7.751	(1.002)	90162	1.93410	157.2435
20 Benzo(b)fluoranthene	252		8.574	8.574	(0.961)	96061	2.40998	195.9334(M)
21 Benzo(k)fluoranthene	252		8.592	8.598	(0.963)	42238	1.03297	83.9814(QM)
22 Benzo(a)pyrene	252		8.868	8.868	(0.994)	54534	1.40854	114.5151
24 Indeno(1,2,3-cd)pyrene	276		10.097	10.097	(1.132)	31649	0.86896	70.6475(M)
25 Dibenzo(a,h)anthracene	278		10.103	10.121	(1.133)	11425	0.32070	26.0730(M)
26 Benzo(g,h,i)perylene	276		10.456	10.456	(1.172)	37988	0.99706	81.0618

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC14030.D

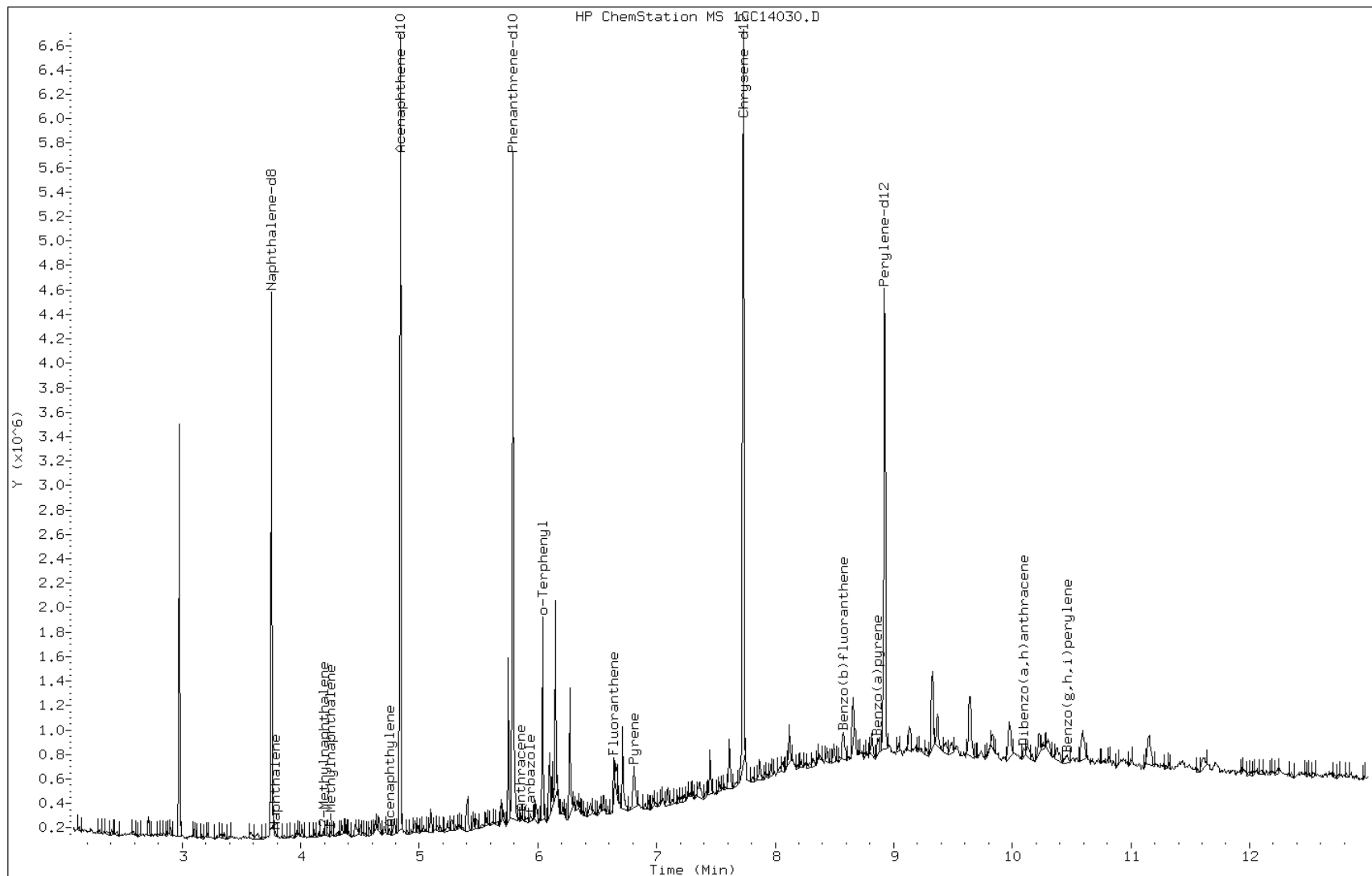
Date: 14-MAR-2013 19:51

Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

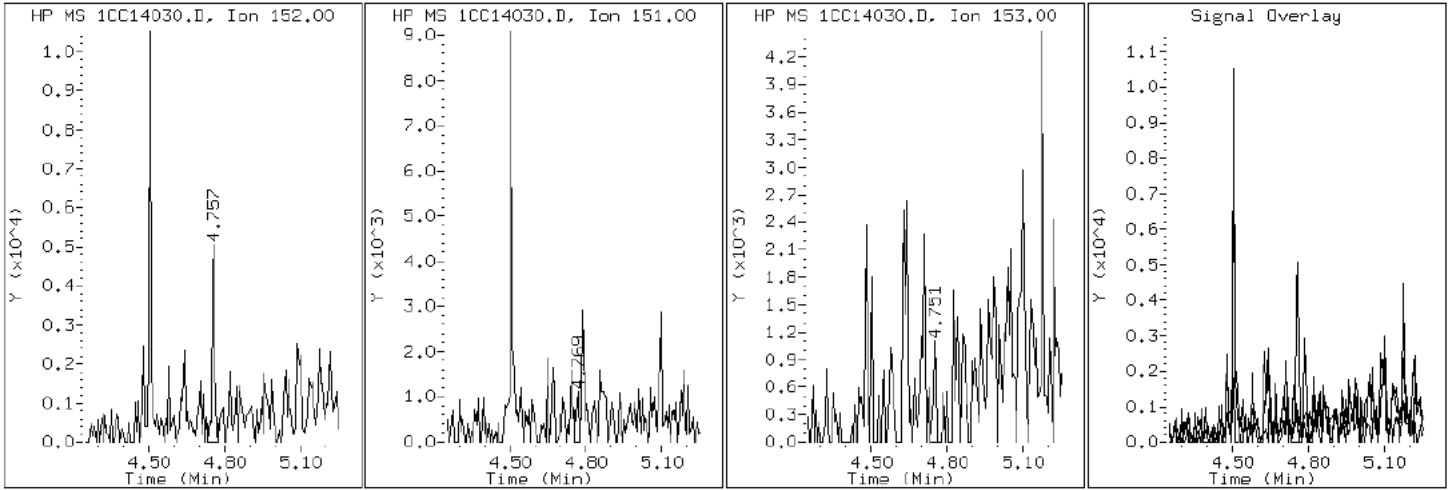
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

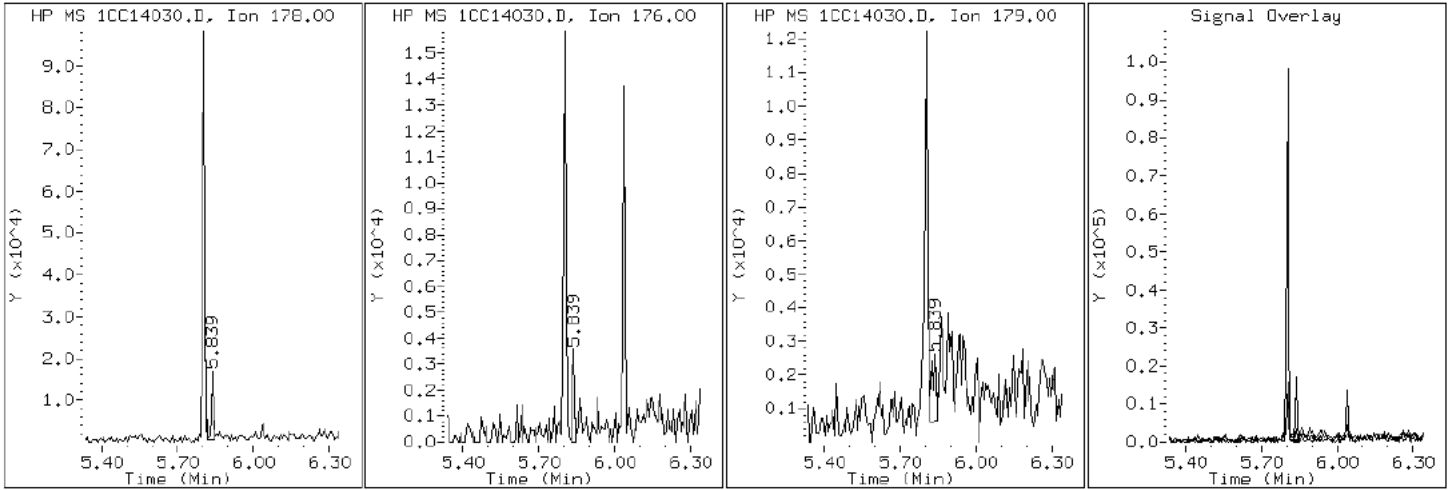
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

12 Anthracene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

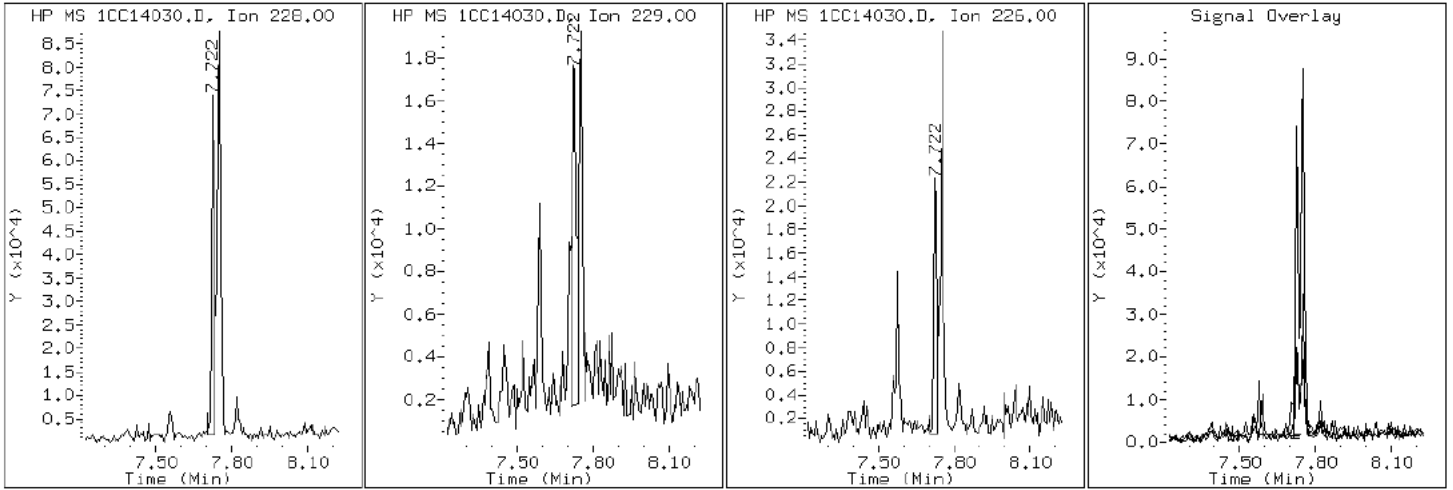
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

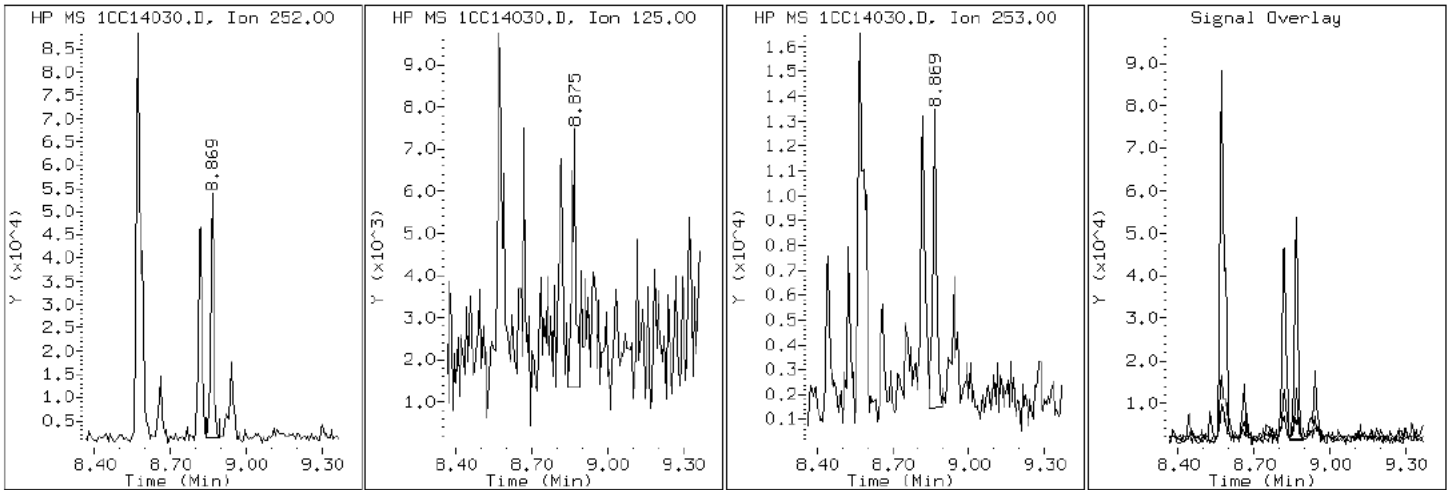
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

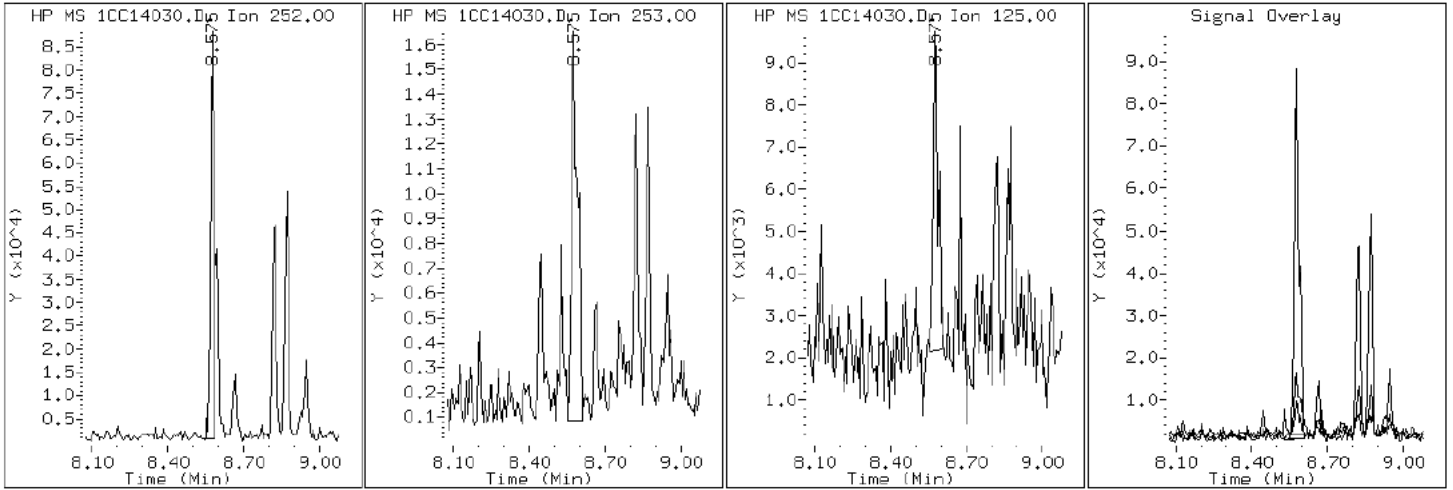
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

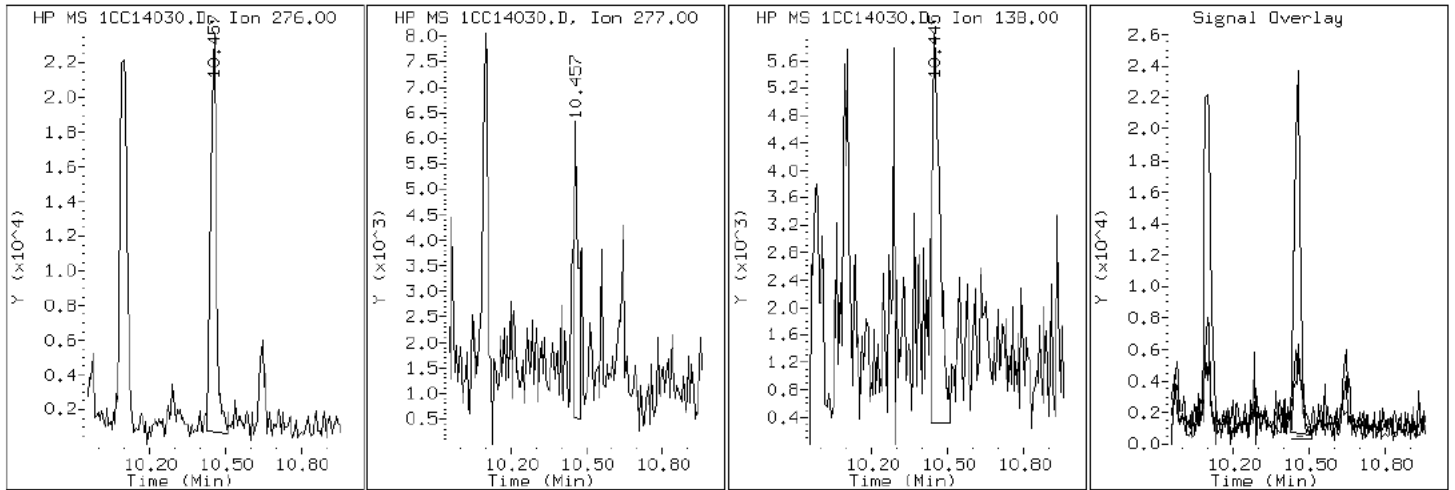
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

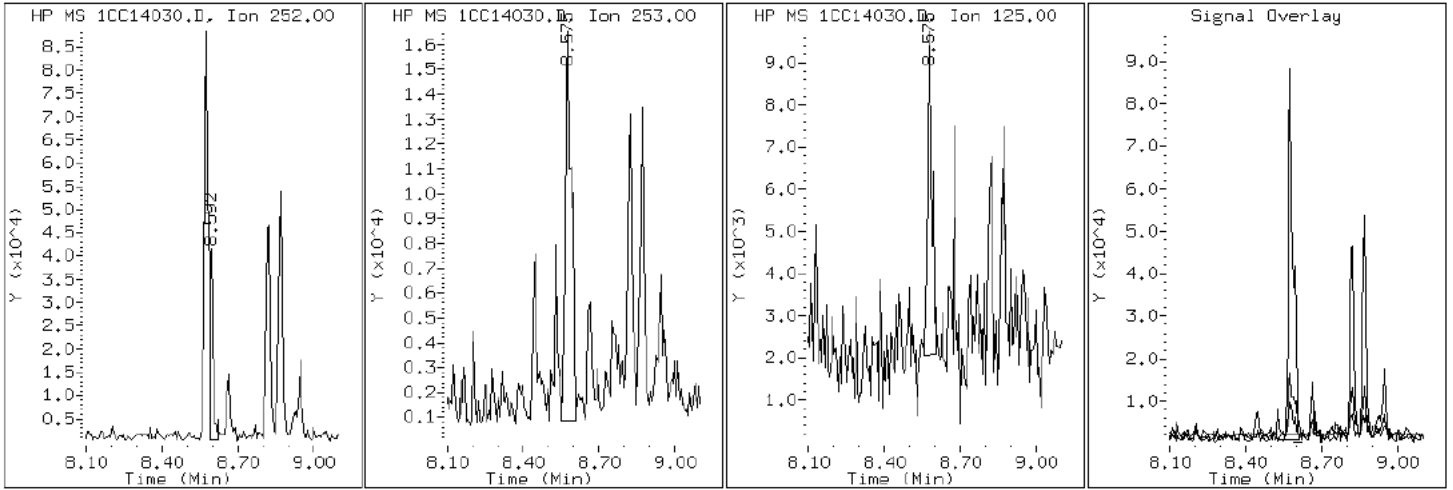
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

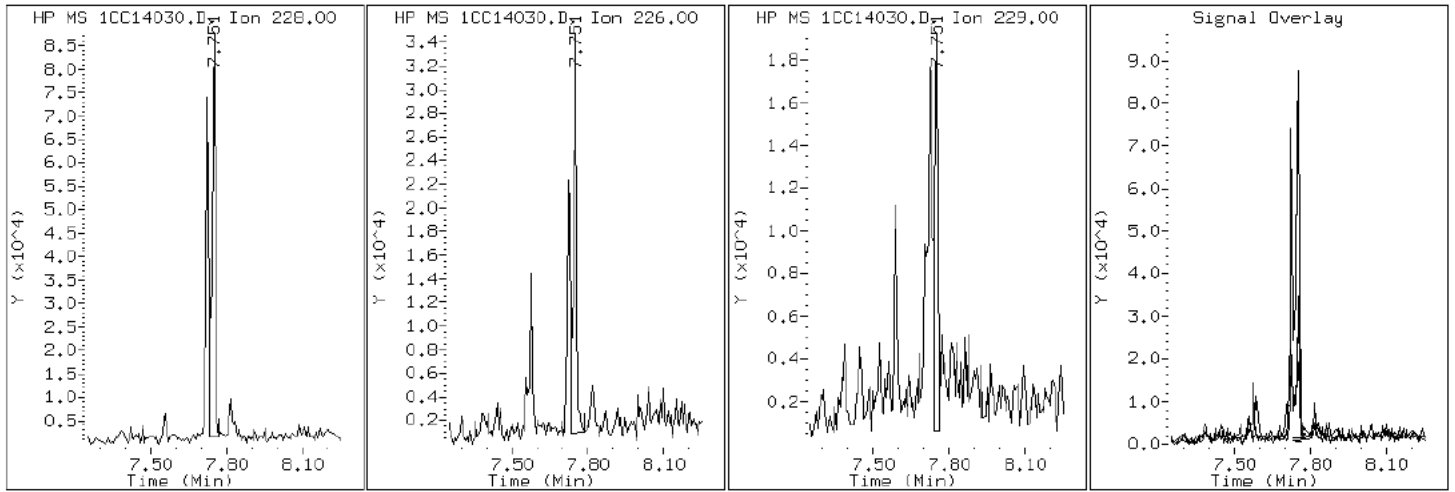
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

19 Chrysene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

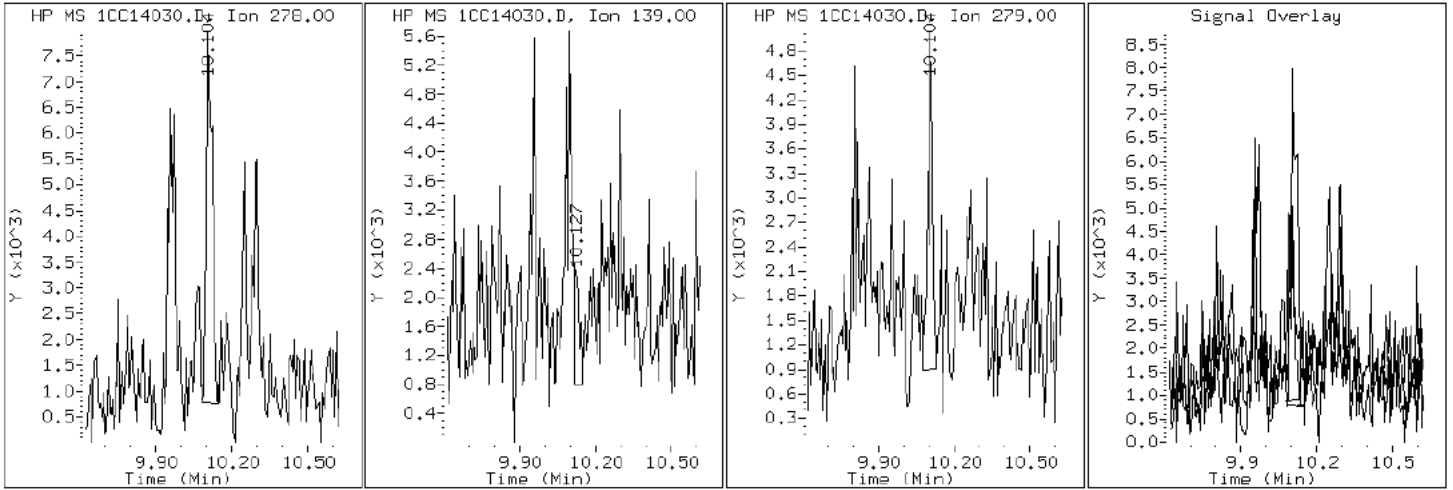
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

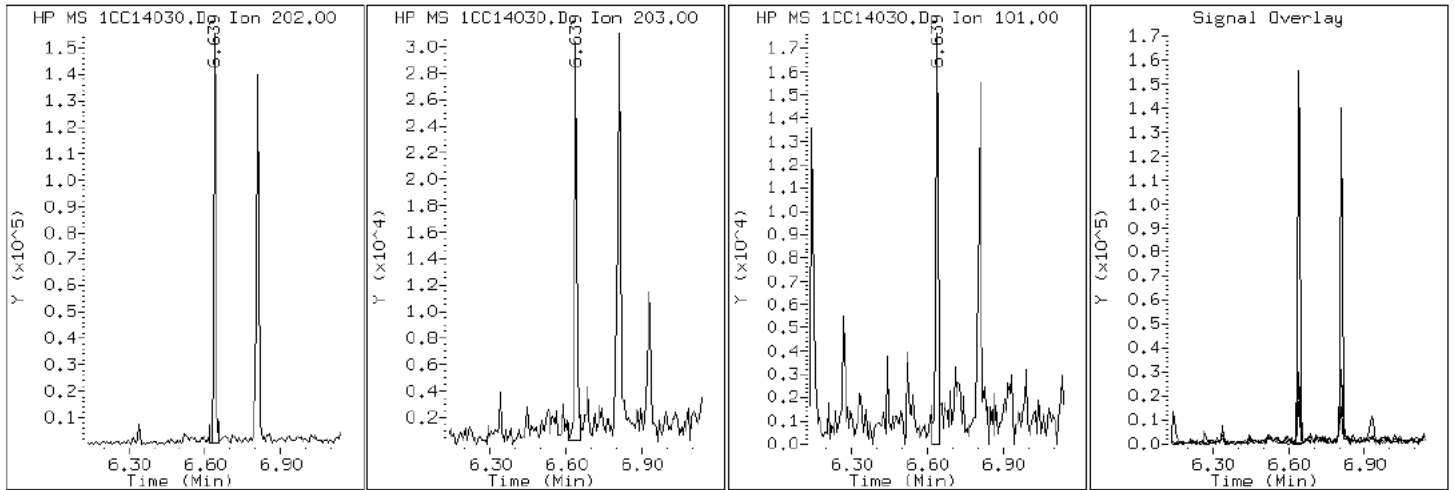
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

15 Fluoranthene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

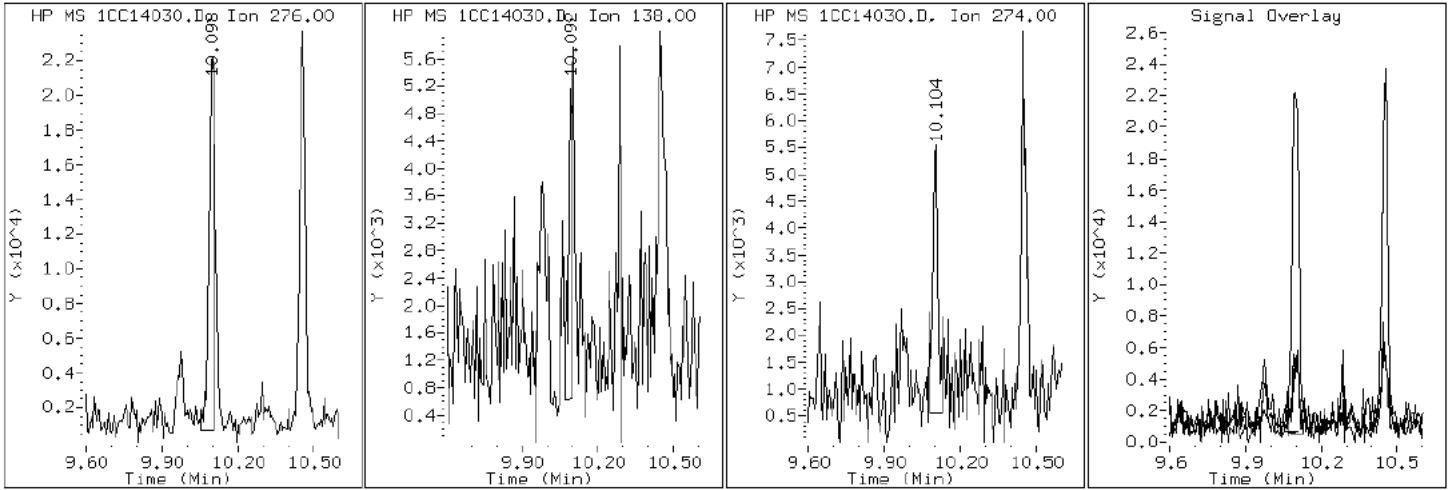
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

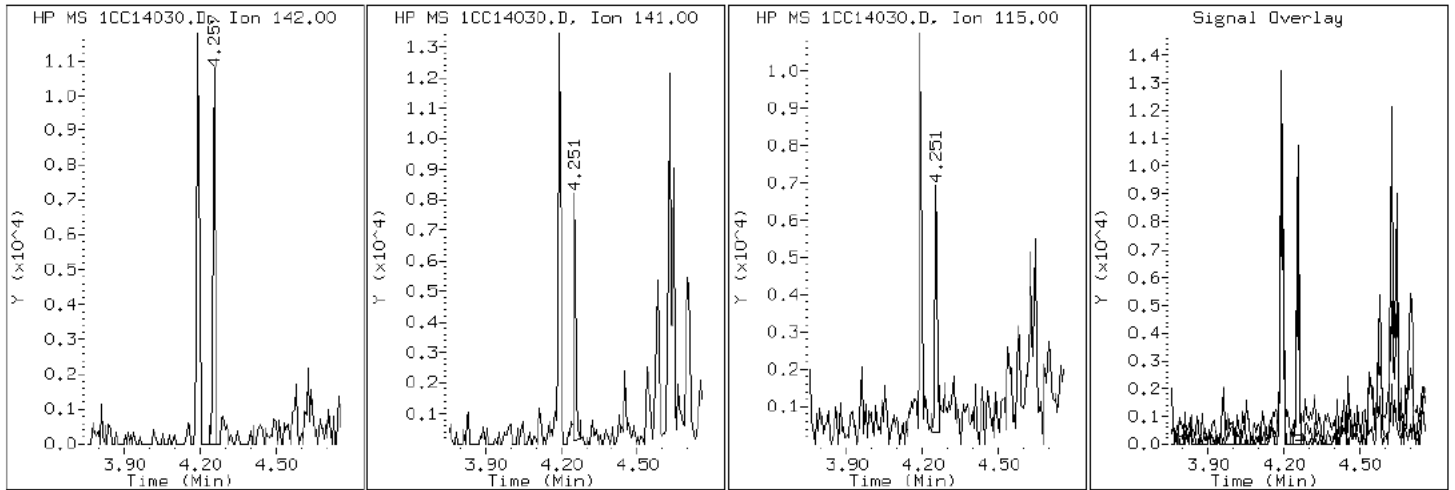
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

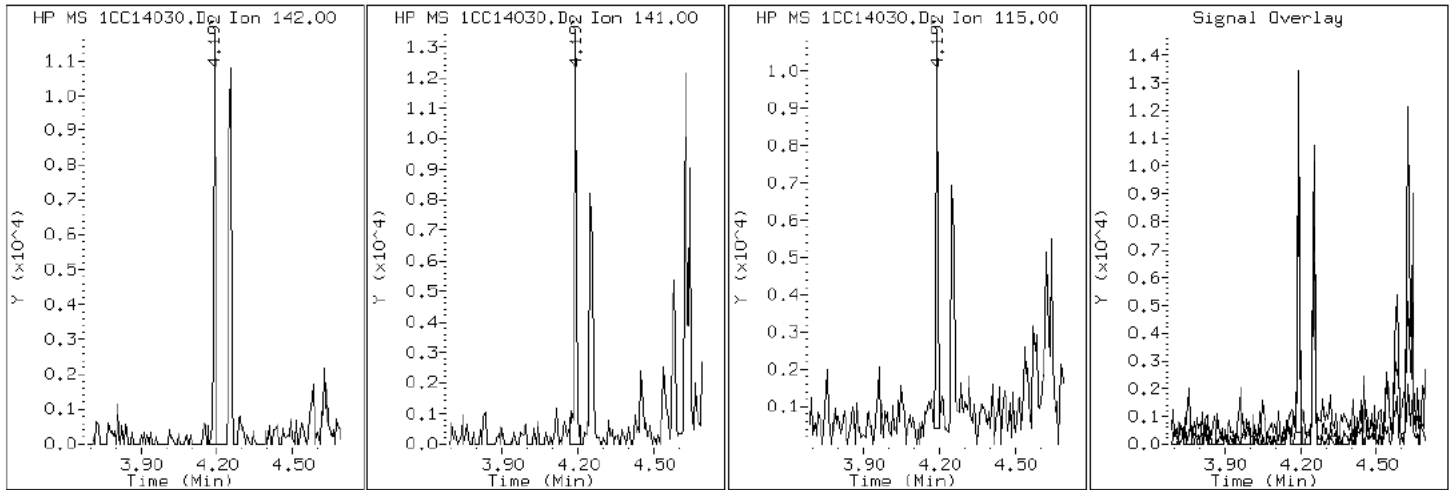
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

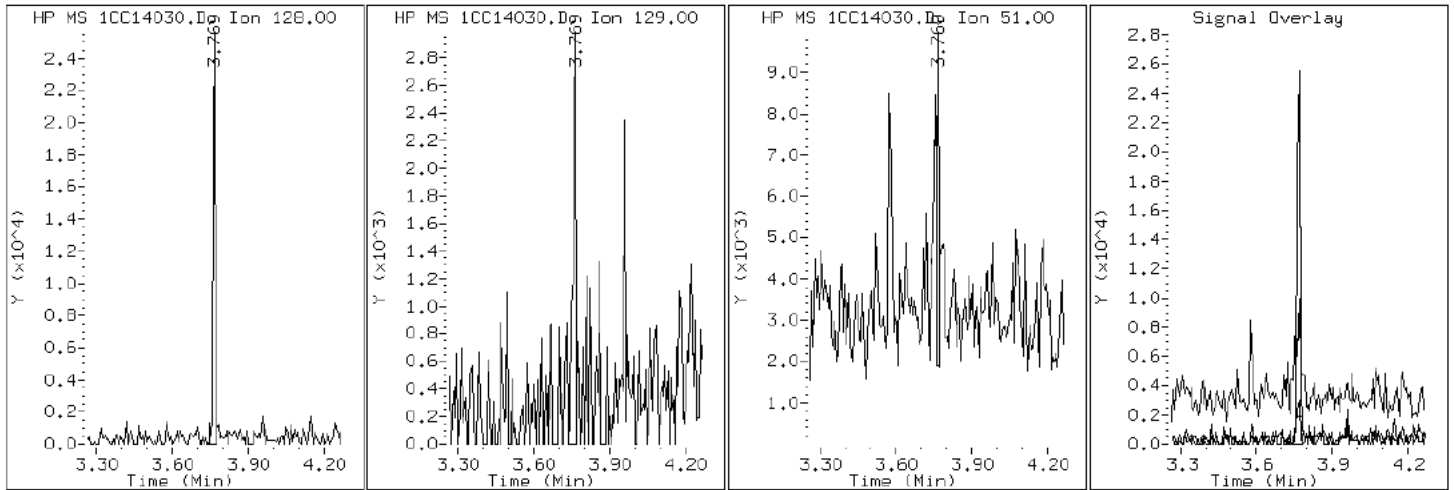
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

2 Naphthalene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

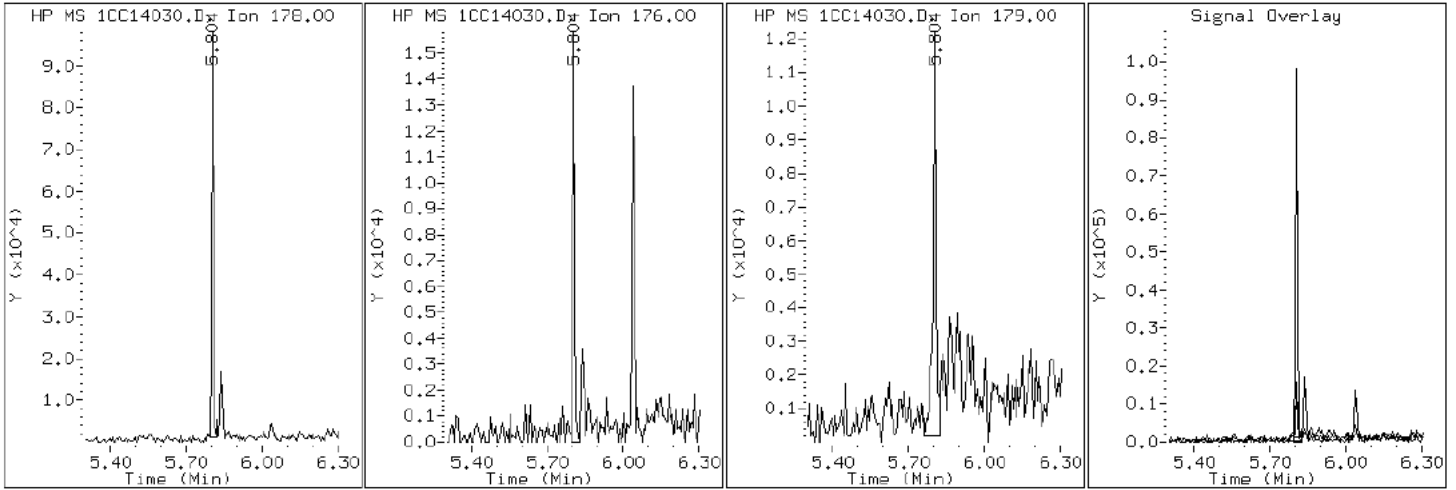
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

11 Phenanthrene



Data File: 1CC14030.D

Date: 14-MAR-2013 19:51

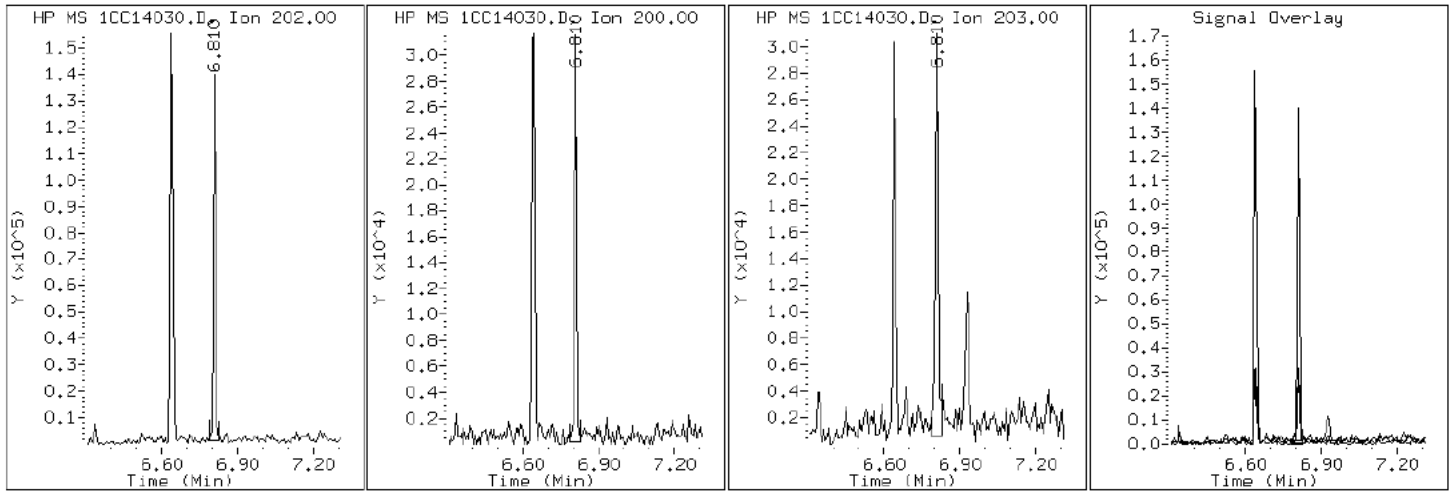
Client ID: HP0258B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-32-a

Operator: SCC

16 Pyrene

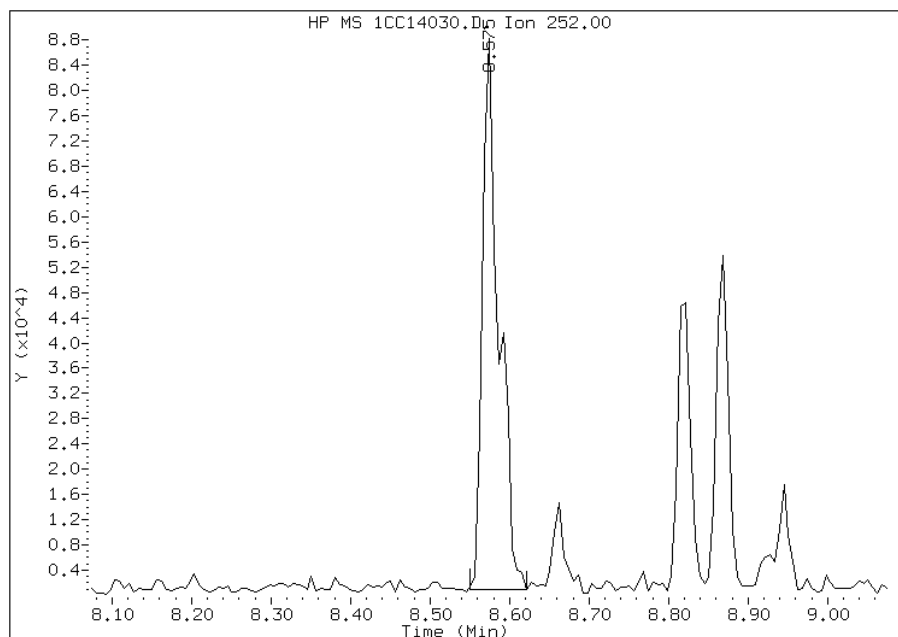


Manual Integration Report

Data File: 1CC14030.D
Inj. Date and Time: 14-MAR-2013 19:51
Instrument ID: BSMC5973.i
Client ID: HP0258B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

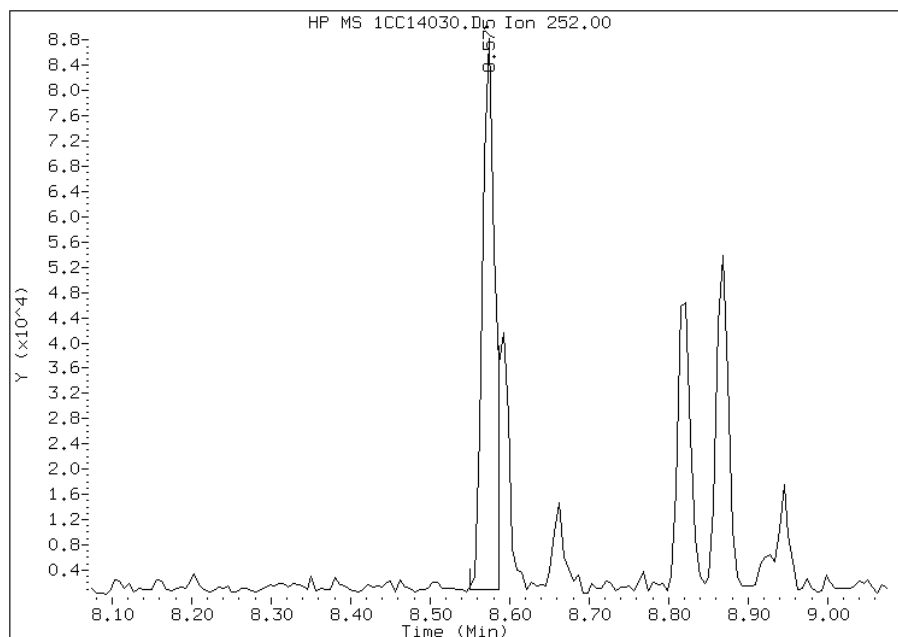
Processing Integration Results

RT: 8.57
Response: 124542
Amount: 3
Conc: 254



Manual Integration Results

RT: 8.57
Response: 96061
Amount: 2
Conc: 196



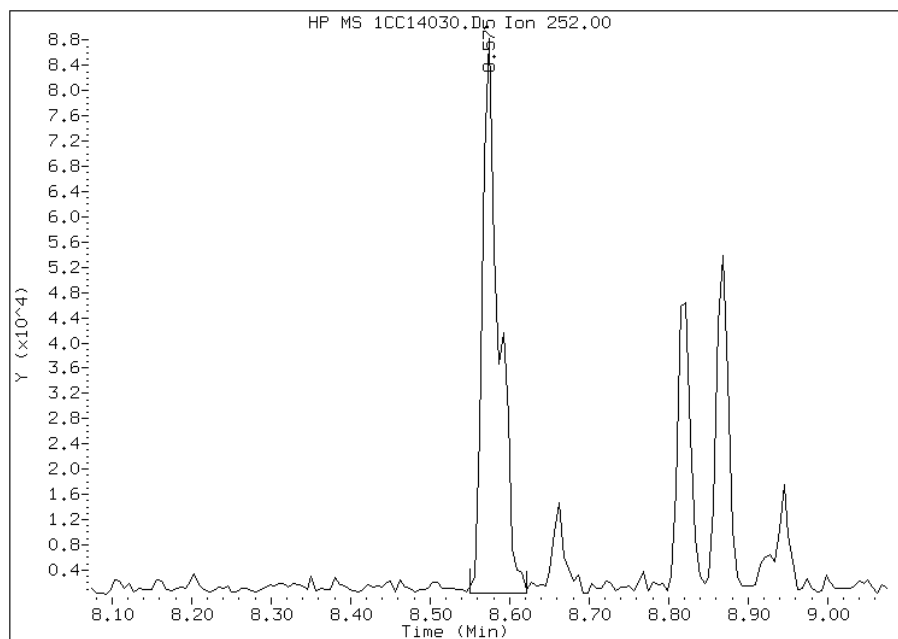
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14030.D
Inj. Date and Time: 14-MAR-2013 19:51
Instrument ID: BSMC5973.i
Client ID: HP0258B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

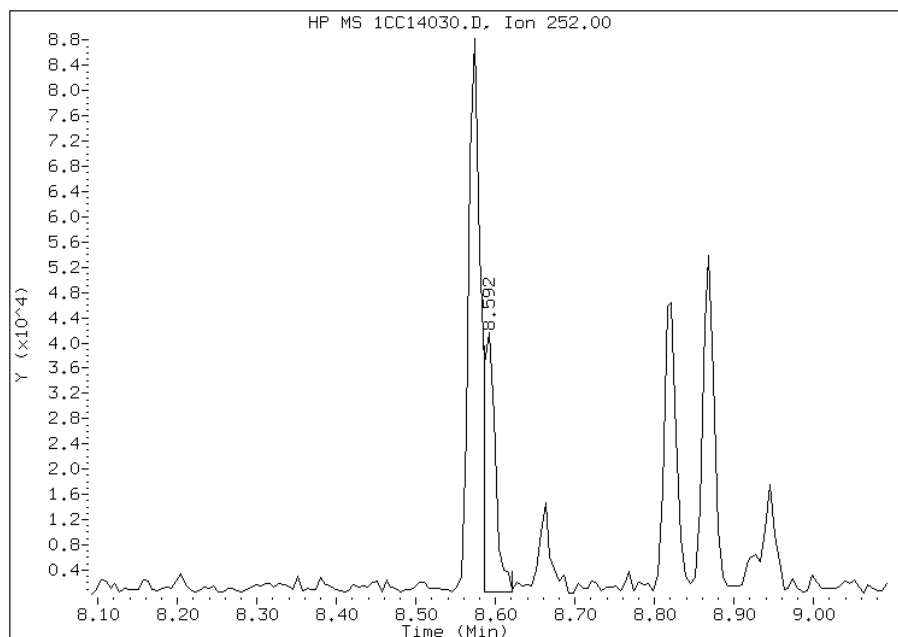
Processing Integration Results

RT: 8.57
Response: 126845
Amount: 3
Conc: 252



Manual Integration Results

RT: 8.59
Response: 42238
Amount: 1
Conc: 84



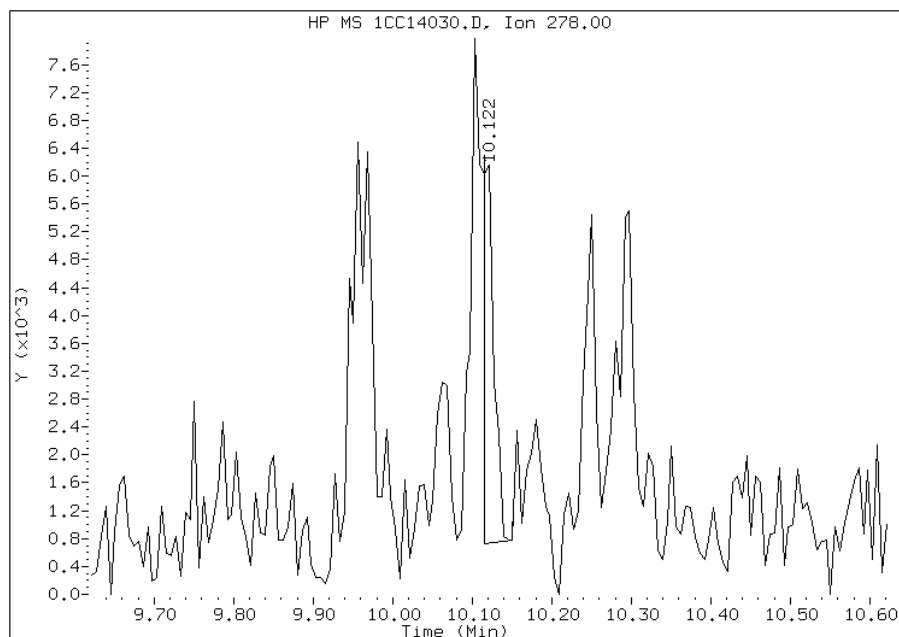
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14030.D
Inj. Date and Time: 14-MAR-2013 19:51
Instrument ID: BSMC5973.i
Client ID: HP0258B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/18/2013

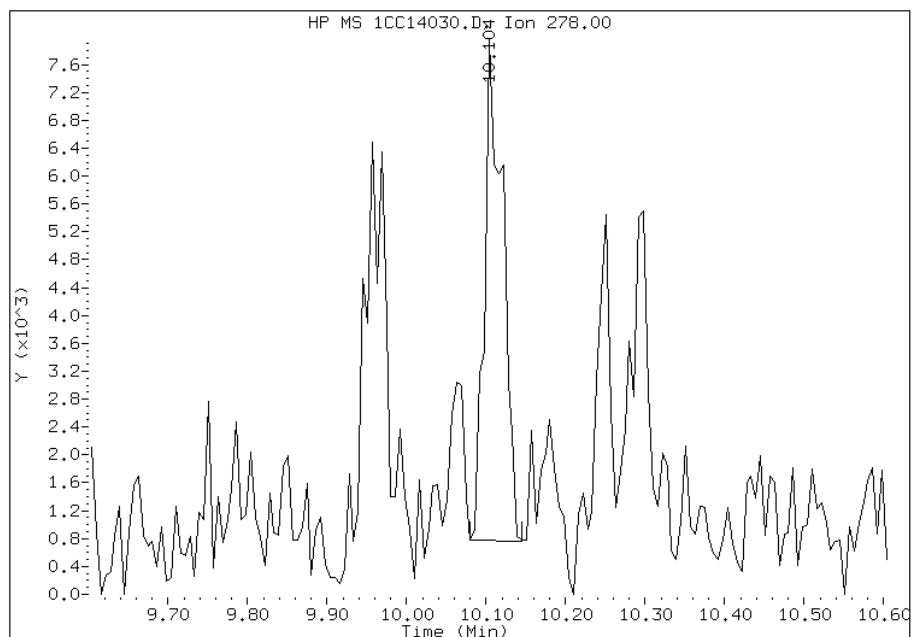
Processing Integration Results

RT: 10.12
Response: 5184
Amount: 0
Conc: 12



Manual Integration Results

RT: 10.10
Response: 11425
Amount: 0
Conc: 26



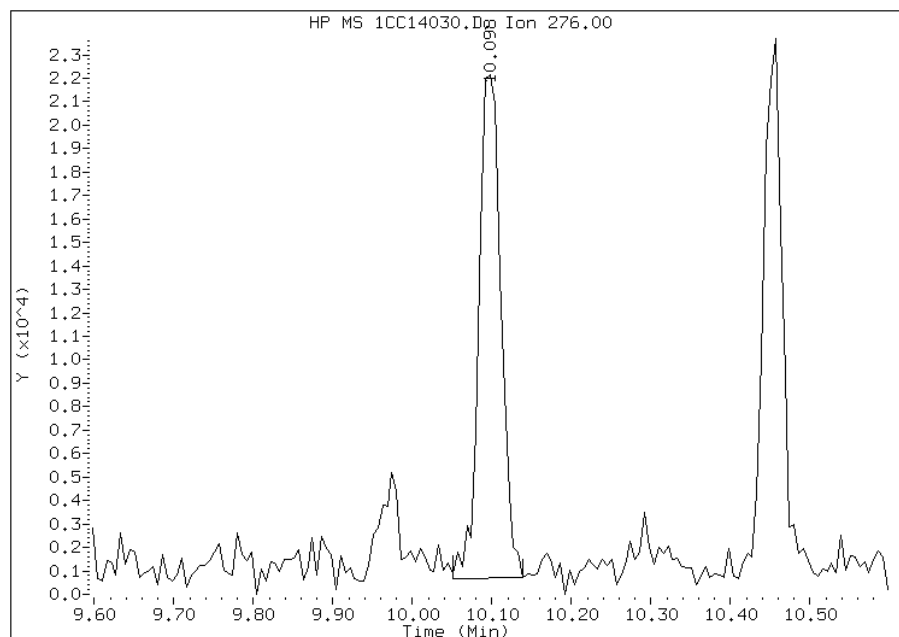
Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14030.D
Inj. Date and Time: 14-MAR-2013 19:51
Instrument ID: BSMC5973.i
Client ID: HP0258B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

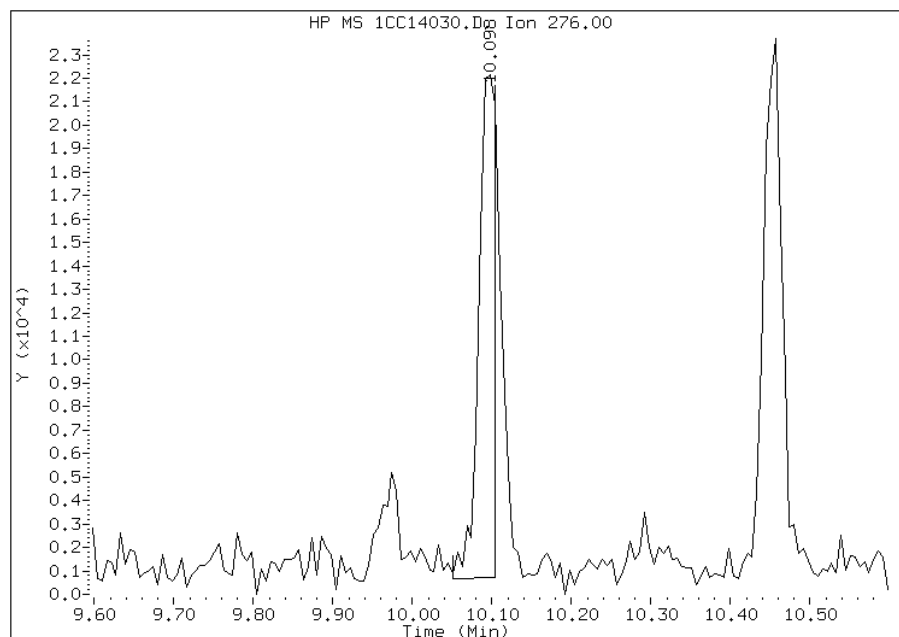
Processing Integration Results

RT: 10.10
Response: 41074
Amount: 1
Conc: 92



Manual Integration Results

RT: 10.10
Response: 31649
Amount: 1
Conc: 71



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 12:42
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88067-2 Analy Batch No.: 134776

SDG No.: 68088067-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave	1.0414			0.0000	3.7		15.0				
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave	0.6946			0.0000	6.0		15.0				
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave	0.6326			0.0000	8.0		15.0				
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave	1.6127			0.0000	5.5		15.0				
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave	1.0024			0.0000	9.0		15.0				
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave	1.2677			0.0000	4.5		15.0				
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave	1.1566			0.0000	6.9		15.0				
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave	1.1312			0.0000	4.2		15.0				
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave	1.0055			0.0000	5.7		15.0				
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave	1.2666			0.0000	5.1		15.0				
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave	1.0749			0.0000	2.0		15.0				
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave	1.1545			0.0000	14.3		15.0				
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave	1.1553			0.0000	9.3		15.0				
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave	1.0453			0.0000	6.4		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88067-2 Analy Batch No.: 134776
 SDG No.: 68088067-2
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N
 Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2	15.0				
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7	15.0				
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5	15.0				
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3	15.0				
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9	15.0				
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88067-2 Analy Batch No.: 134776

SDG No.: 68088067-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88067-2 Analy Batch No.: 134776

SDG No.: 68088067-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
 Lab Smp Id: IC-1512358
 Inj Date : 22-FEB-2013 11:57
 Operator : SCC
 Smp Info : IC-1512358
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\A-BFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Data File: 1CB22003.D

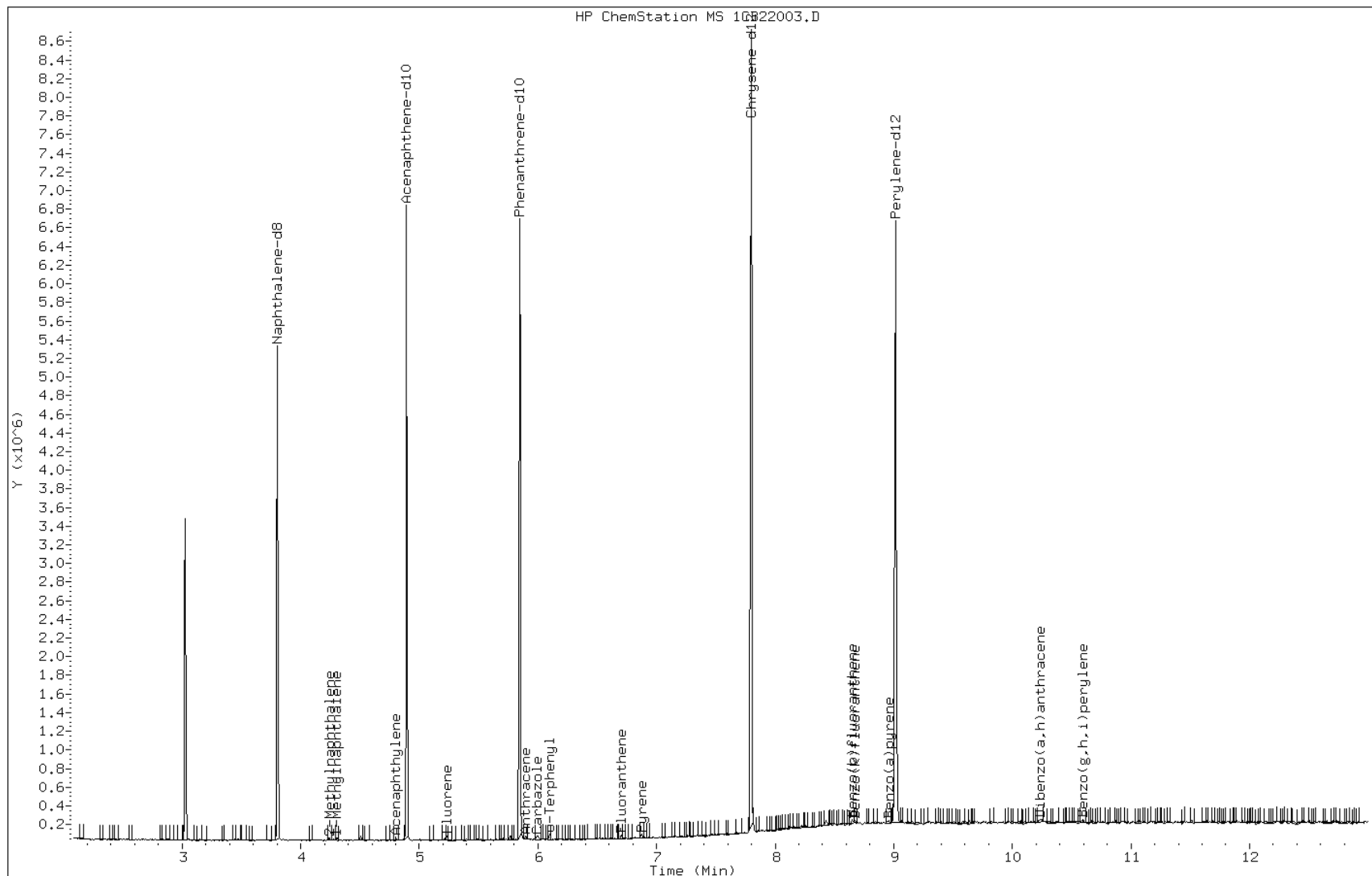
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

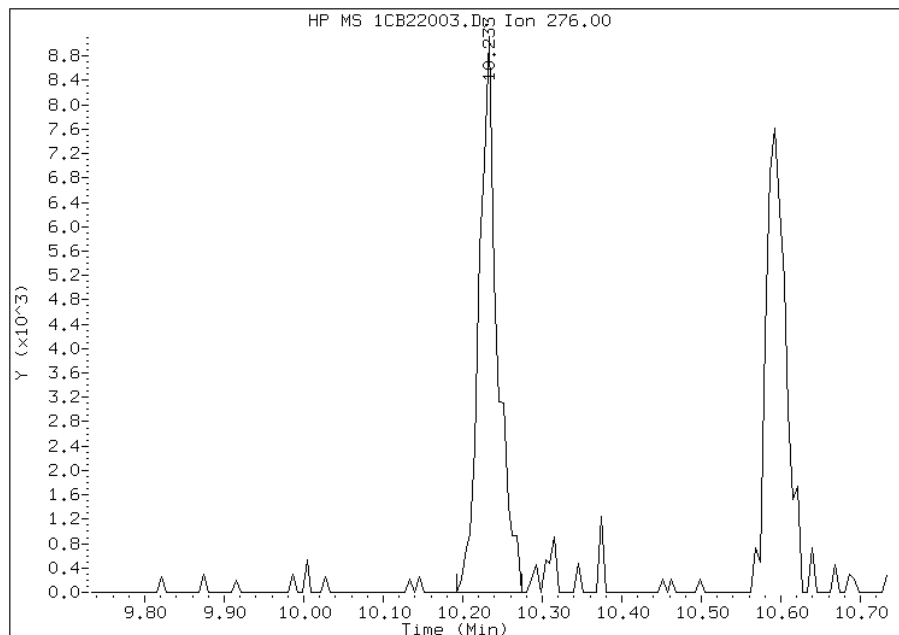


Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

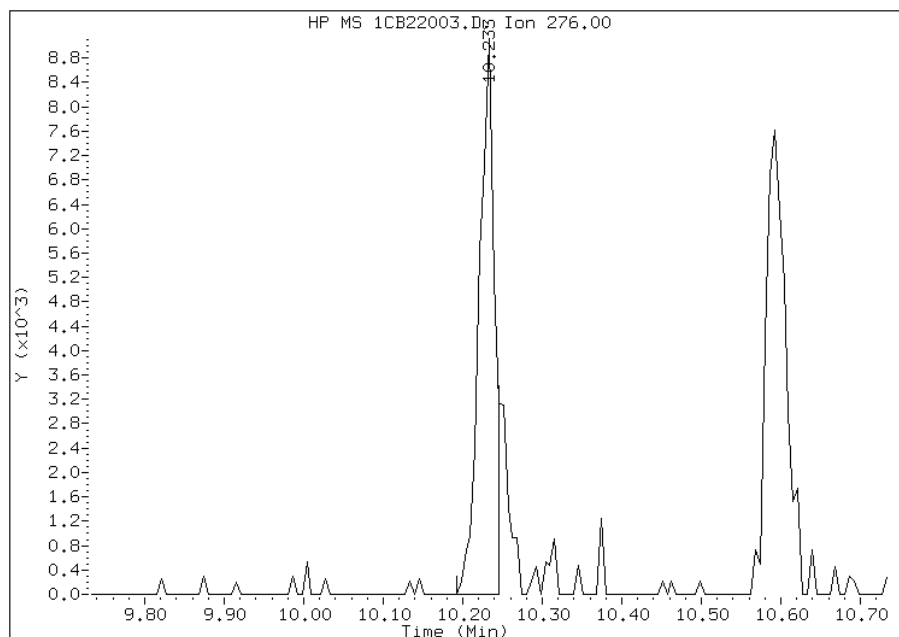
Processing Integration Results

RT: 10.23
Response: 14380
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.23
Response: 12119
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
 Lab Smp Id: IC-1512359
 Inj Date : 22-FEB-2013 12:16
 Operator : SCC
 Smp Info : IC-1512359
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Data File: 1CB22004.D

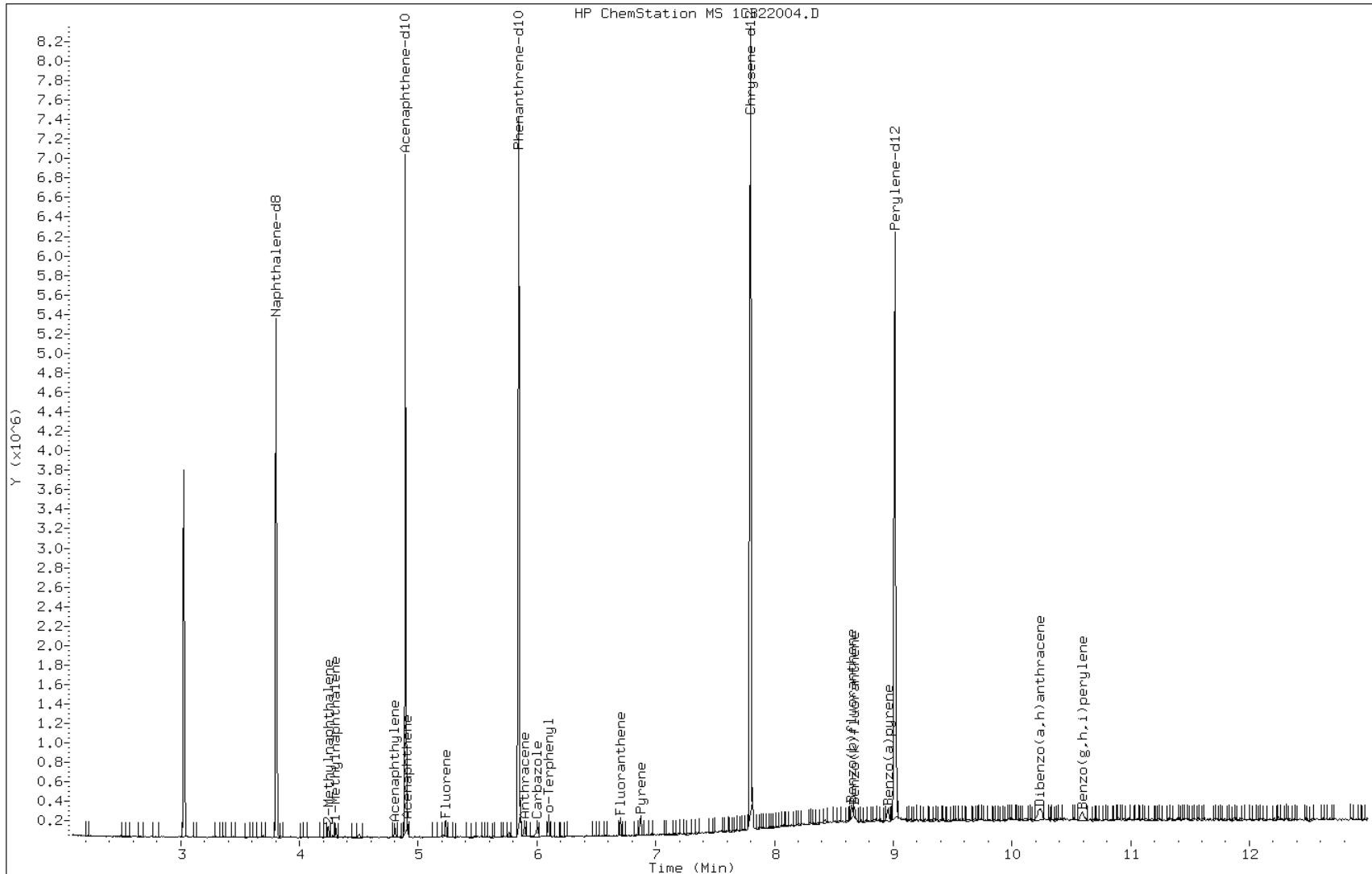
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

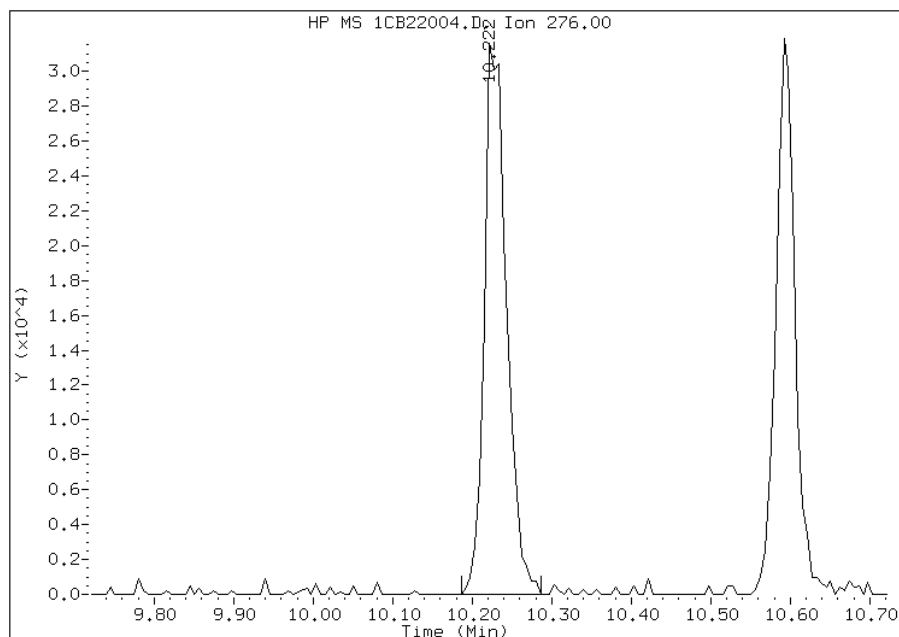


Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

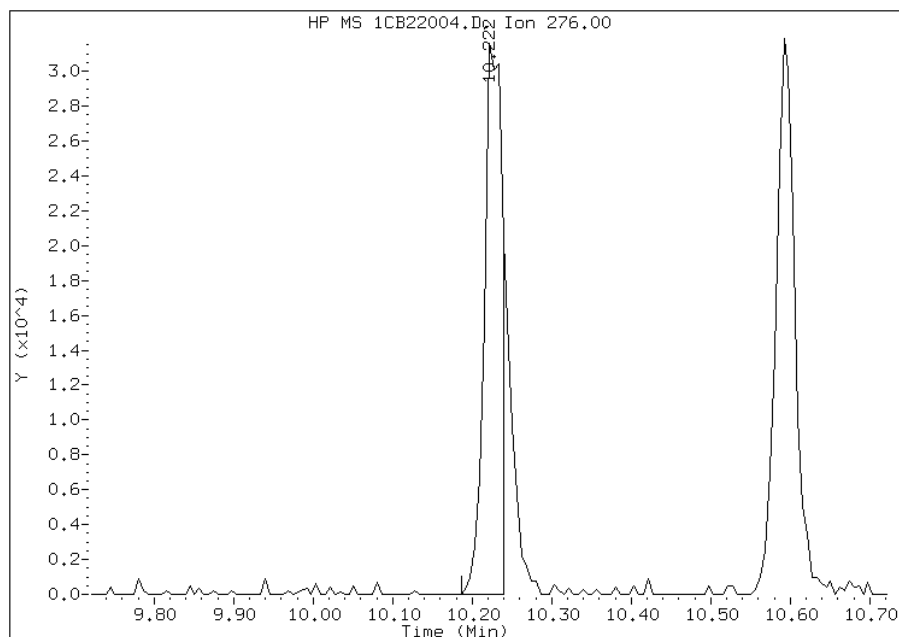
Processing Integration Results

RT: 10.22
Response: 61246
Amount: 1
Conc: 1



Manual Integration Results

RT: 10.22
Response: 48940
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
 Lab Smp Id: IC-1512360
 Inj Date : 22-FEB-2013 12:34
 Operator : SCC
 Smp Info : IC-1512360
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

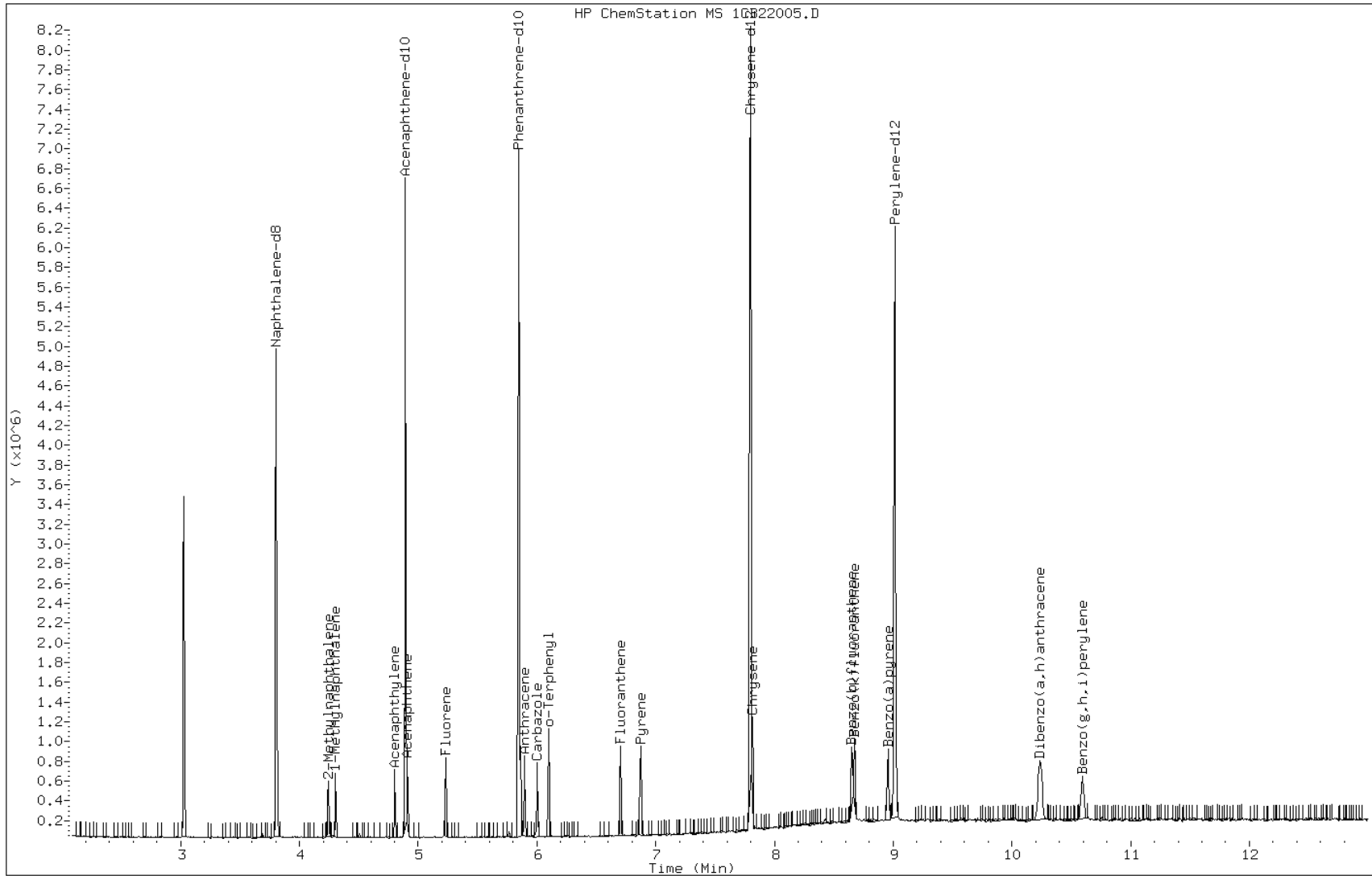
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

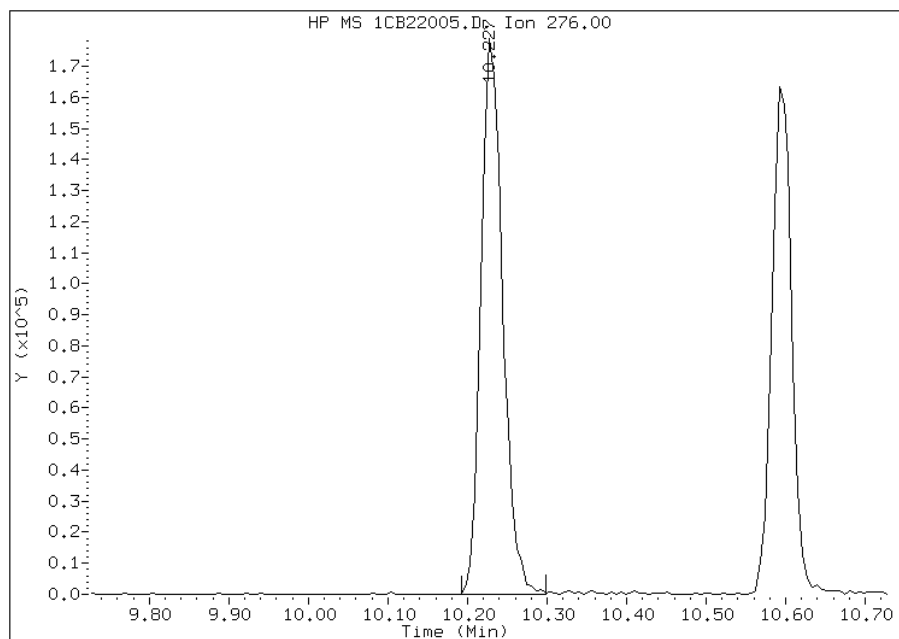


Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

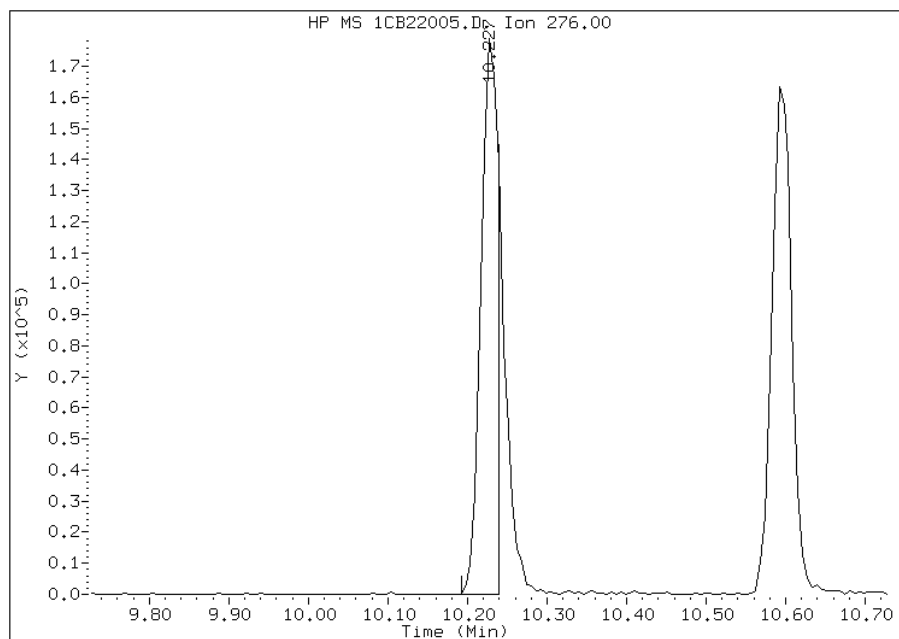
Processing Integration Results

RT: 10.23
Response: 336913
Amount: 6
Conc: 6



Manual Integration Results

RT: 10.23
Response: 267436
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
 Lab Smp Id: IC-1512361
 Inj Date : 22-FEB-2013 12:53
 Operator : SCC
 Smp Info : IC-1512361
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

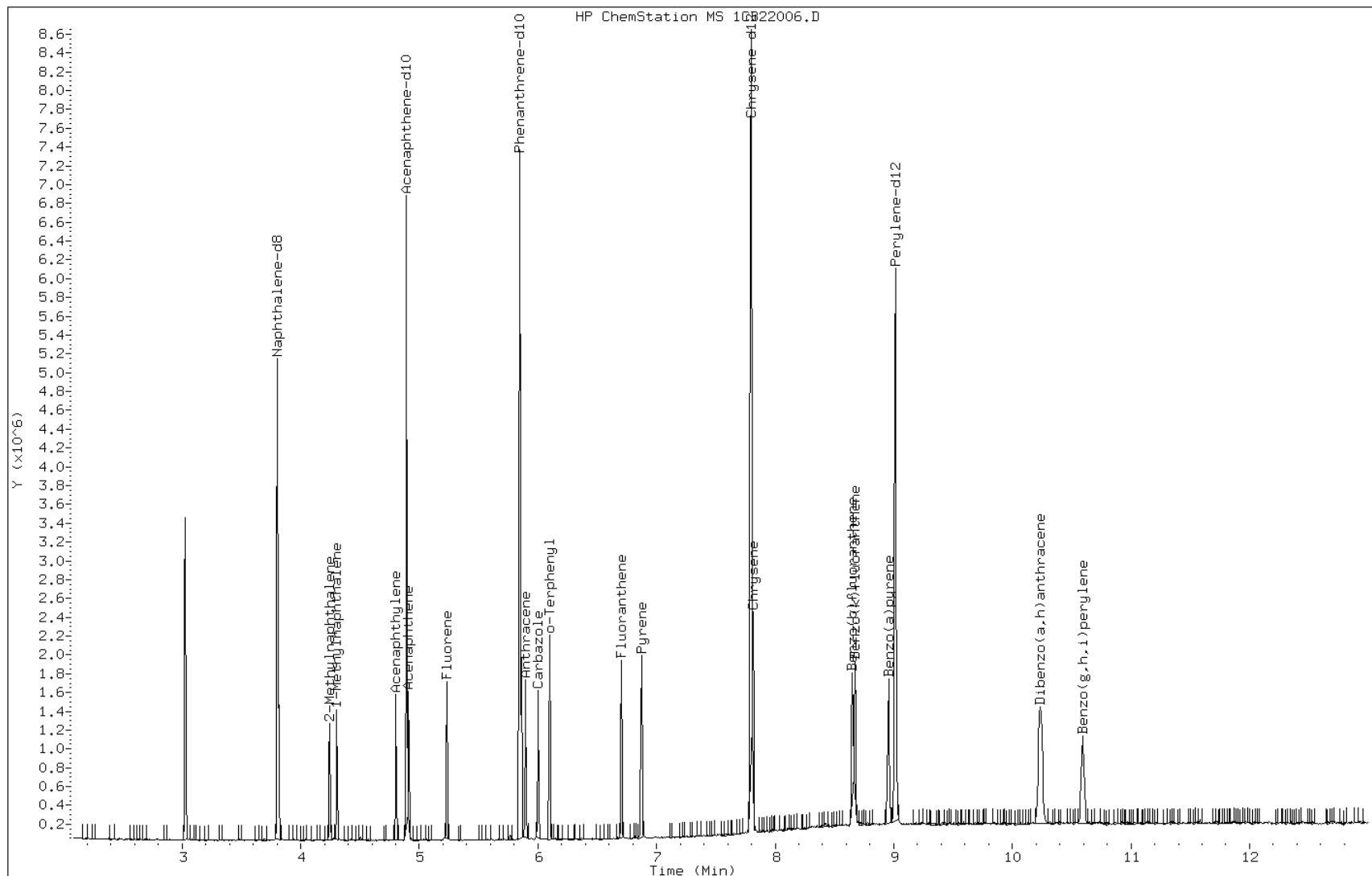
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

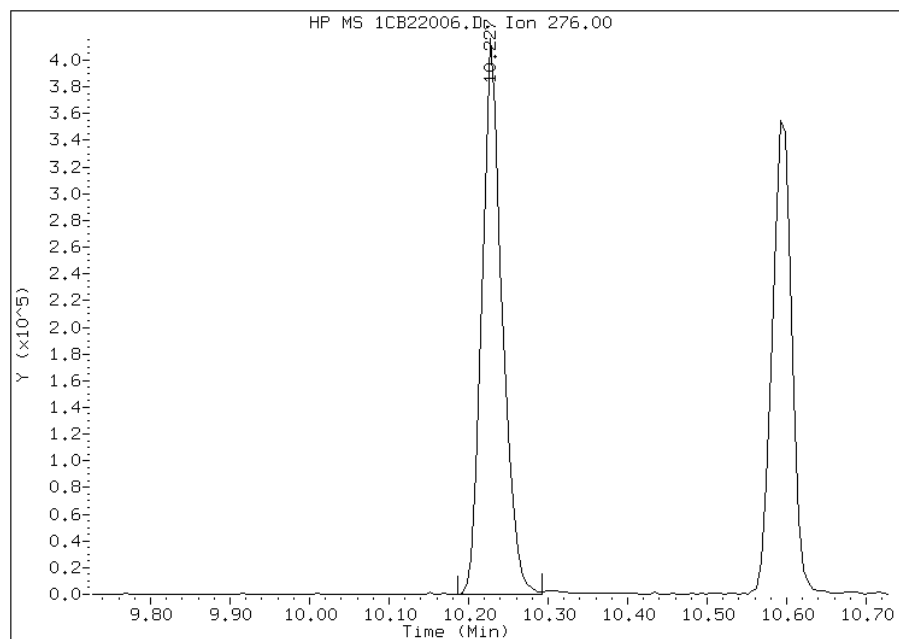


Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

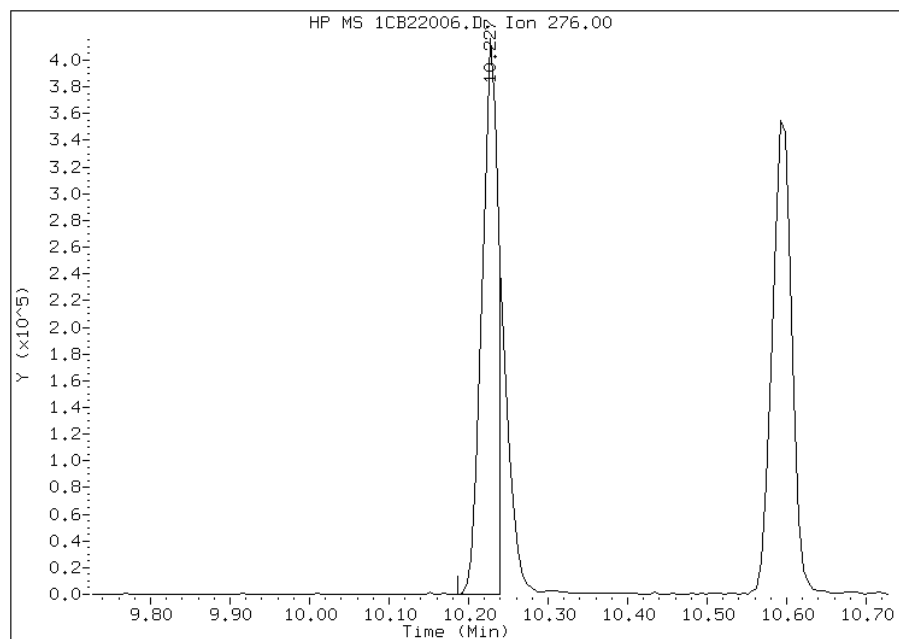
Processing Integration Results

RT: 10.23
Response: 727358
Amount: 13
Conc: 13



Manual Integration Results

RT: 10.23
Response: 582935
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
 Lab Smp Id: ICIS-1512372
 Inj Date : 22-FEB-2013 13:11
 Operator : SCC
 Smp Info : ICIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22007.D

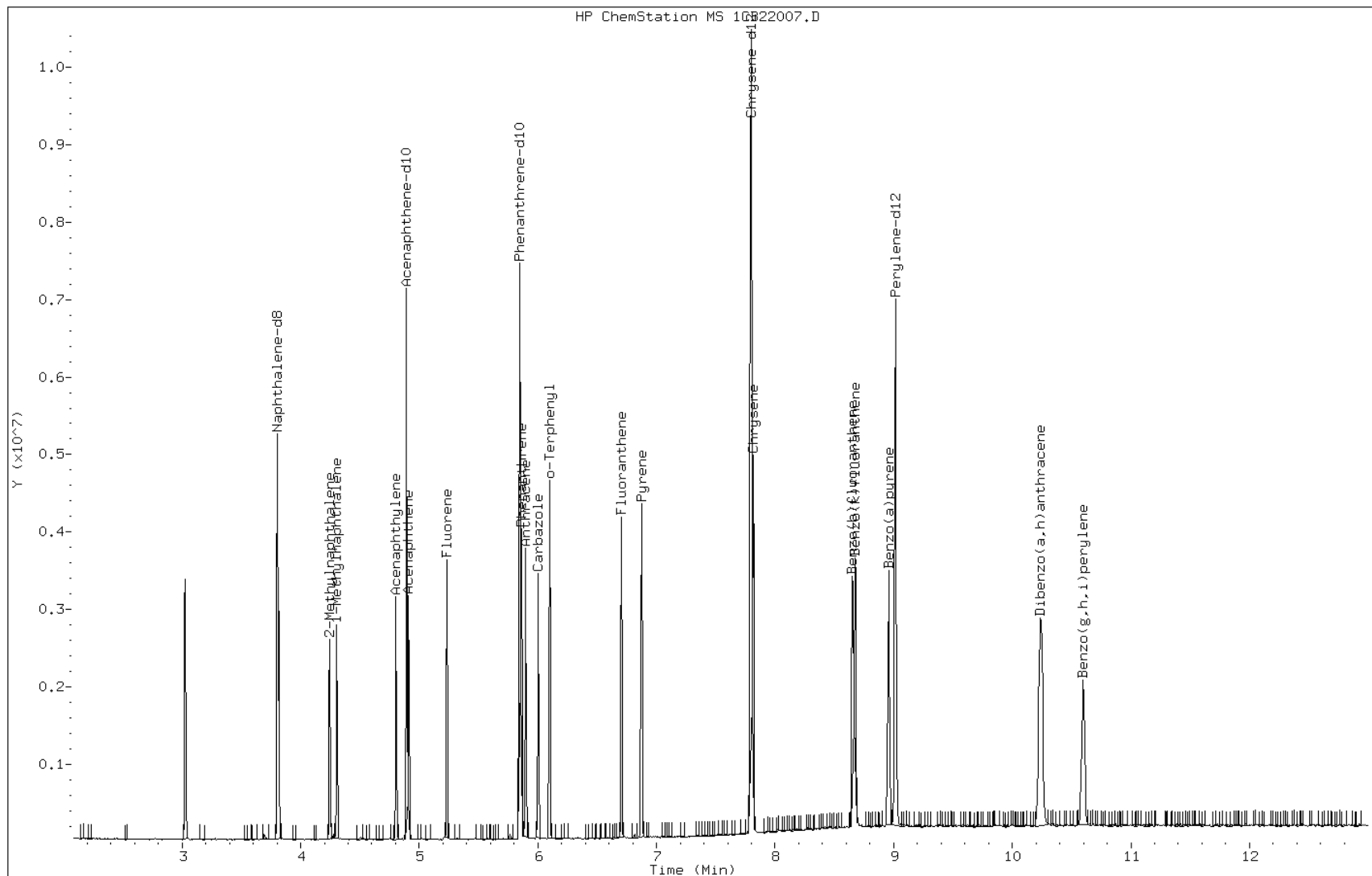
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

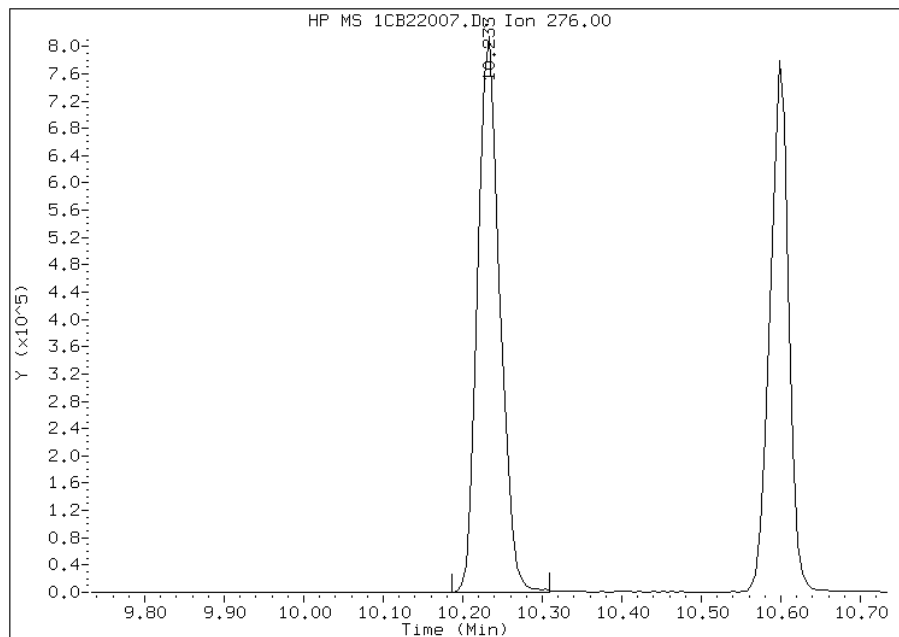


Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

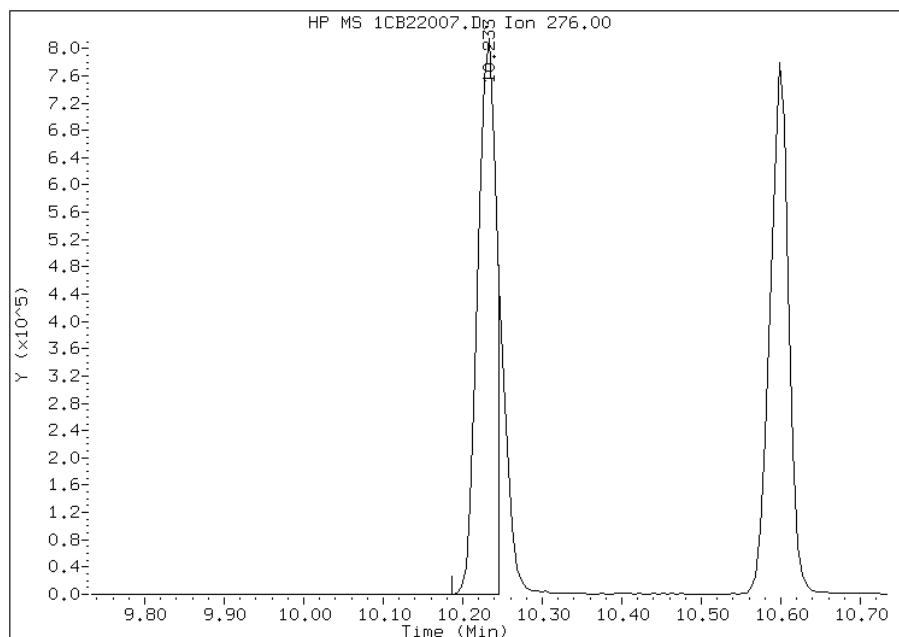
Processing Integration Results

RT: 10.23
Response: 1569498
Amount: 25
Conc: 25



Manual Integration Results

RT: 10.23
Response: 1327322
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
 Lab Smp Id: IC-1512373
 Inj Date : 22-FEB-2013 13:29
 Operator : SCC
 Smp Info : IC-1512373
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	1864829	40.0000	
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264		9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128		3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152		4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154		4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166		5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178		5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178		5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167		6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202		6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202		6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228		7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252		8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252		8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276		10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

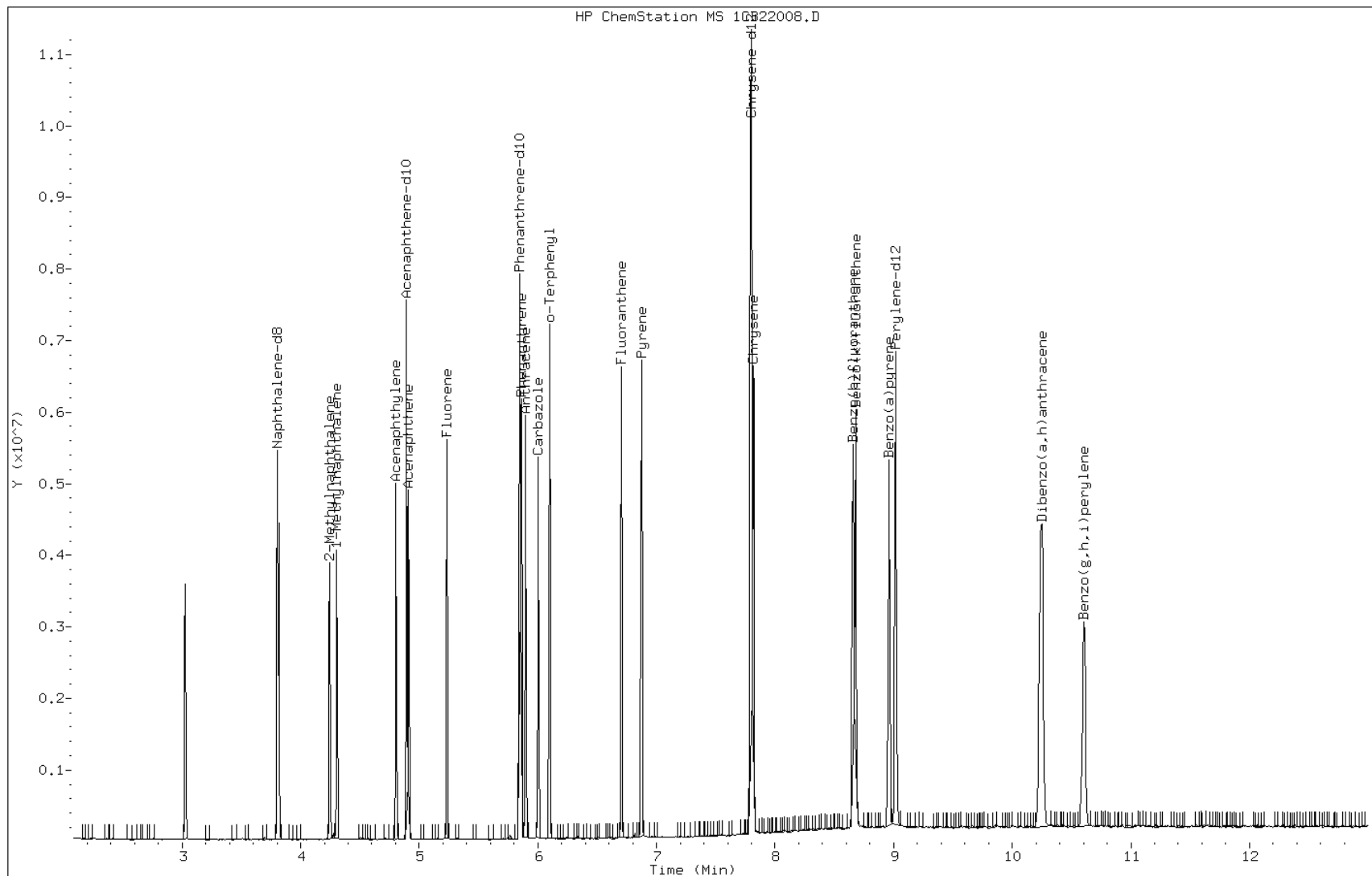
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

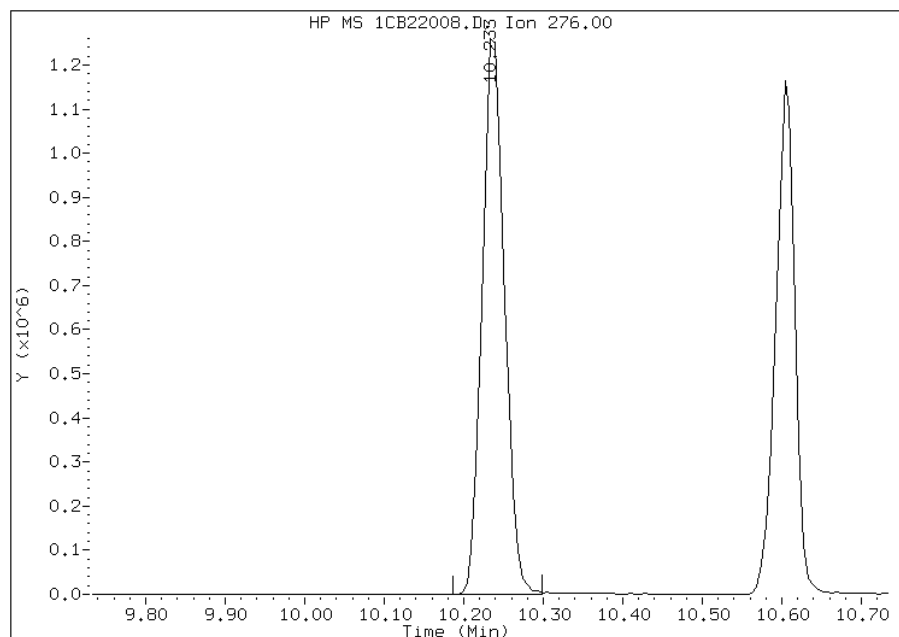


Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

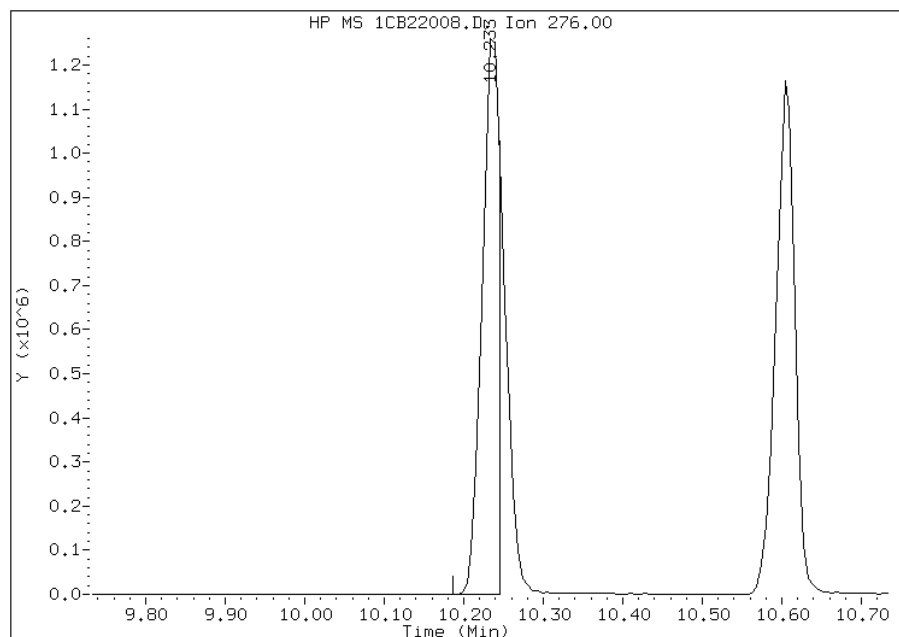
Processing Integration Results

RT: 10.23
Response: 2435528
Amount: 36
Conc: 36



Manual Integration Results

RT: 10.23
Response: 1907725
Amount: 29
Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
 Lab Smp Id: IC-1512374
 Inj Date : 22-FEB-2013 13:48
 Operator : SCC
 Smp Info : IC-1512374
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	=====	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	=====	188	5.845	5.845	(1.000)	1952764	40.0000	
\$ 14 o-Terphenyl	=====	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	=====	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	=====	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	=====	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	=====	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	=====	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	=====	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	=====	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	=====	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	=====	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	=====	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	=====	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	=====	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	=====	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	=====	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	=====	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	=====	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	=====	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	=====	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	=====	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	=====	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	=====	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1CB22009.D

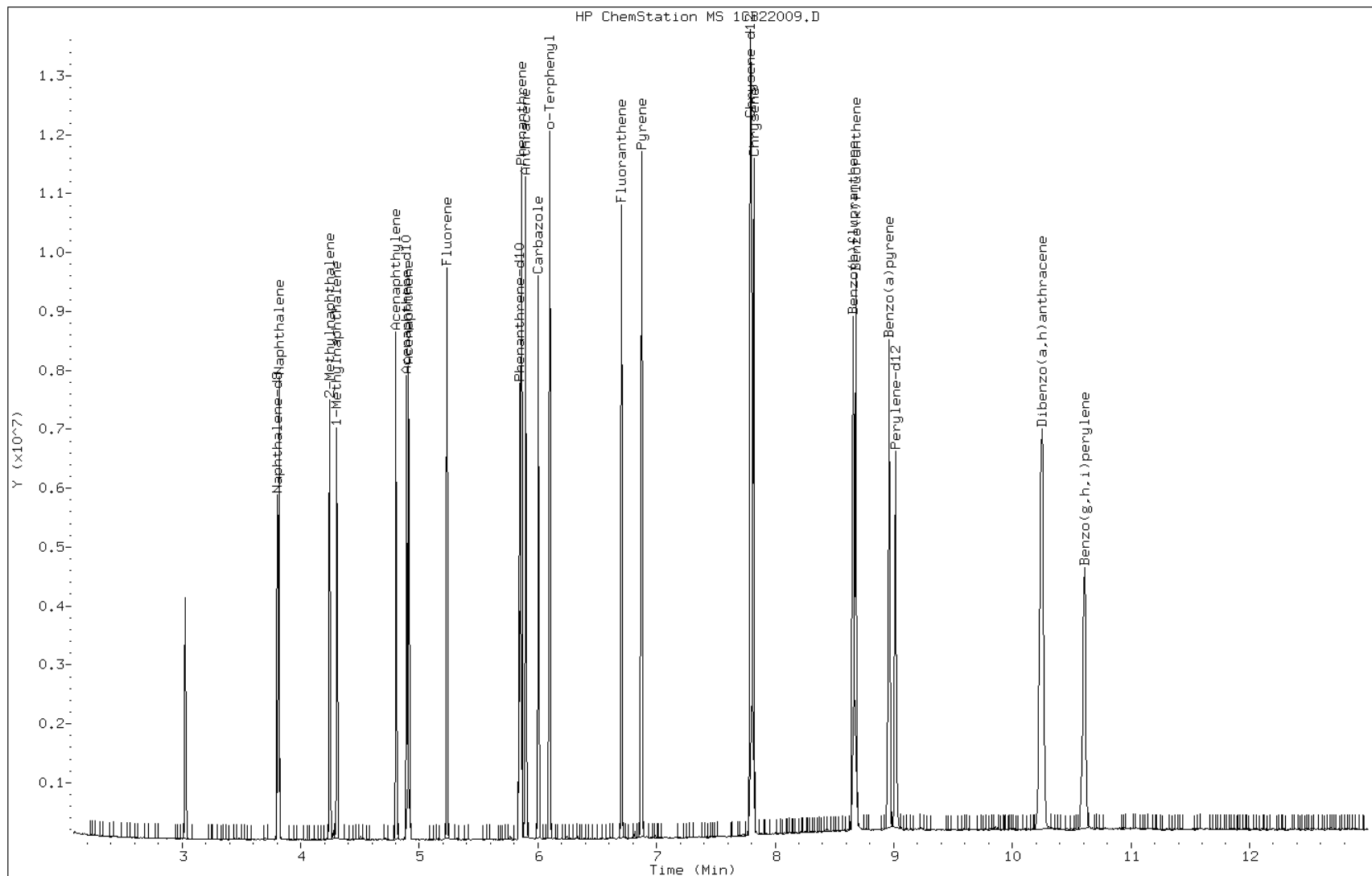
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

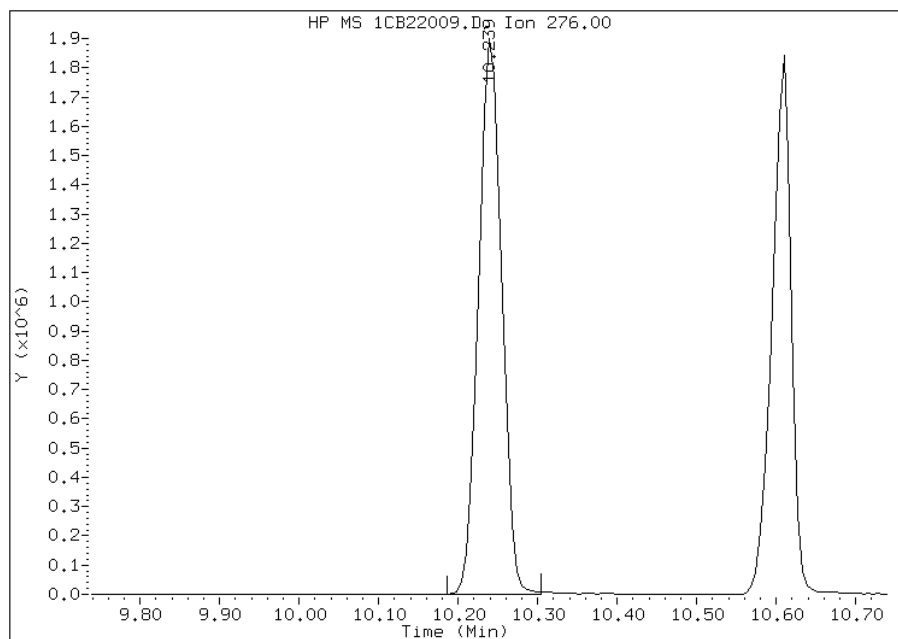


Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

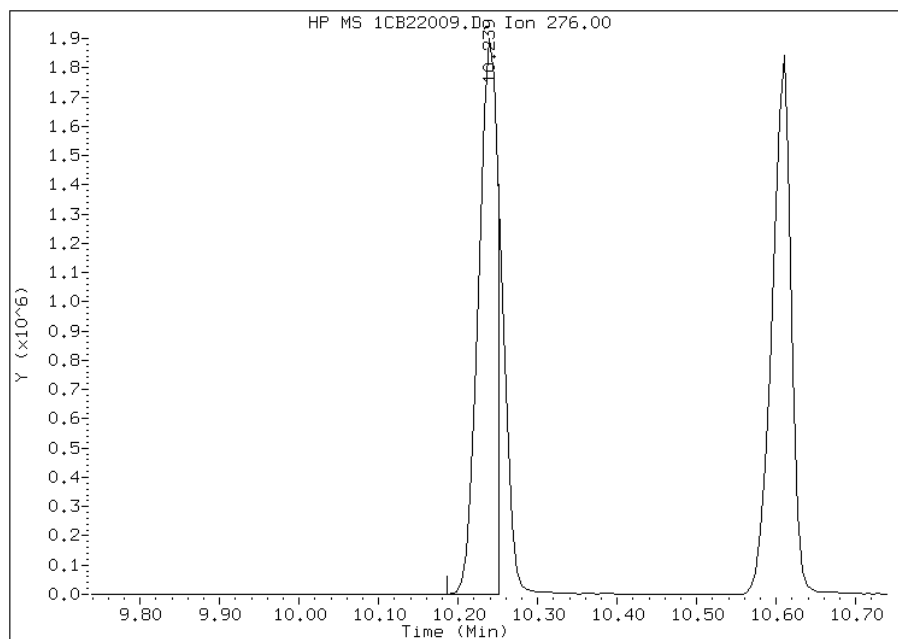
Processing Integration Results

RT: 10.24
Response: 3825990
Amount: 51
Conc: 51



Manual Integration Results

RT: 10.24
Response: 3187834
Amount: 51
Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
 Lab Smp Id: ICV-1448440
 Inj Date : 22-FEB-2013 14:06
 Operator : SCC
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)	1383069	40.0000		
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	1075067	40.0000		
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	2141313	40.0000		
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	528461	16.3458	16.3457	
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2766374	40.0000		
* 23 Perylene-d12	264		9.015	9.016	(1.000)	3034368	40.0000		
2 Naphthalene	128		3.816	3.816	(1.003)	643385	17.8686	17.8685	
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	426527	17.7587	17.7586	
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	406896	18.6013	18.6013	
5 Acenaphthylene	152		4.804	4.804	(0.982)	792099	18.2750	18.2749	
7 Acenaphthene	154		4.910	4.910	(1.004)	511893	19.0010	19.0010	
9 Fluorene	166		5.233	5.234	(1.070)	612561	17.9790	17.9790	
11 Phenanthrene	178		5.863	5.863	(1.003)	1016506	16.4172	16.4171	
12 Anthracene	178		5.898	5.898	(1.009)	1040221	17.1782	17.1781	
13 Carbazole	167		6.004	6.004	(1.027)	936321	17.3944	17.3943	
15 Fluoranthene	202		6.704	6.704	(1.147)	1196804	17.6502	17.6501	
16 Pyrene	202		6.874	6.875	(0.882)	1218381	16.3888	16.3887	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228		7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252		8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252		8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276		10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

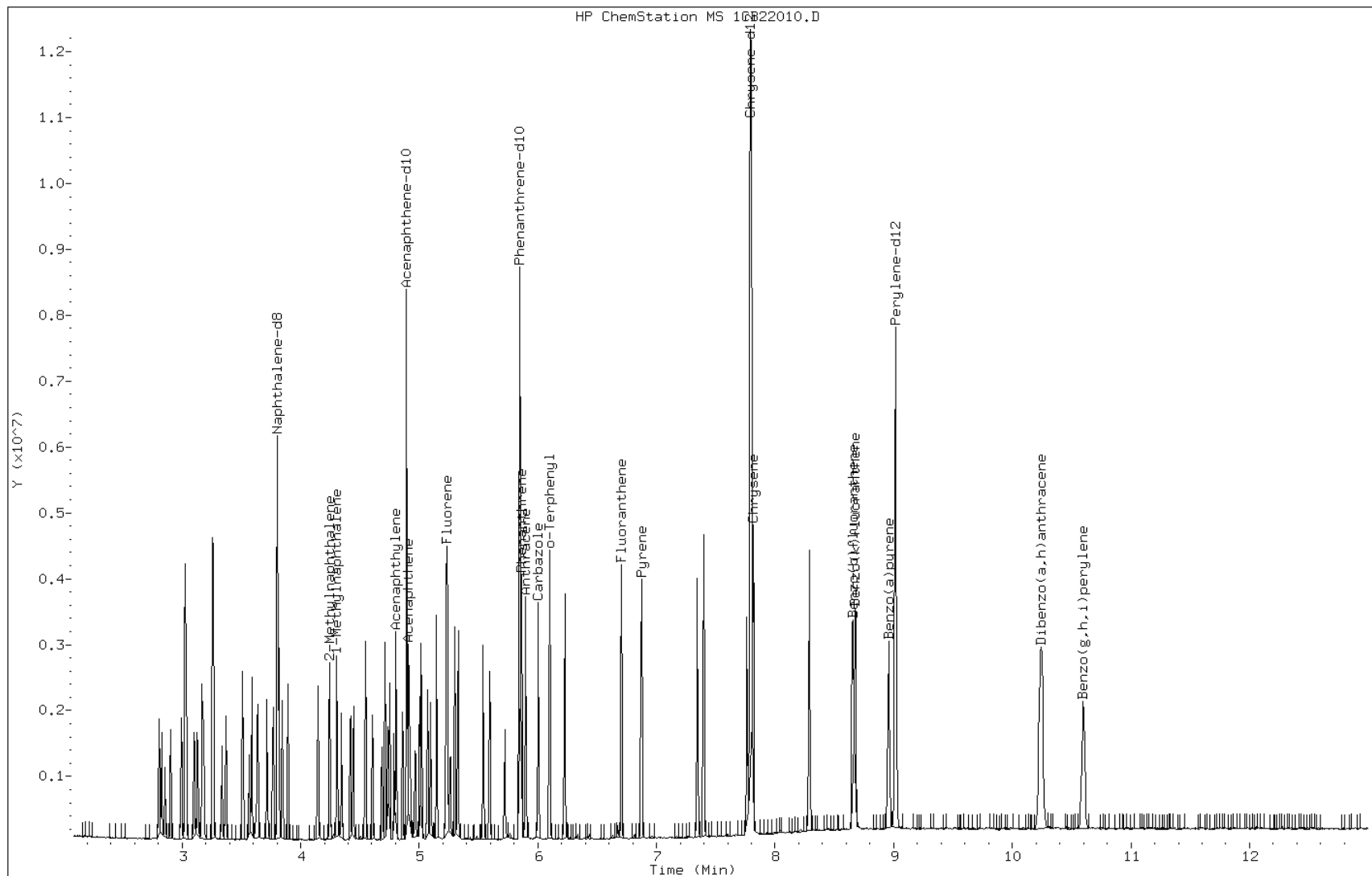
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

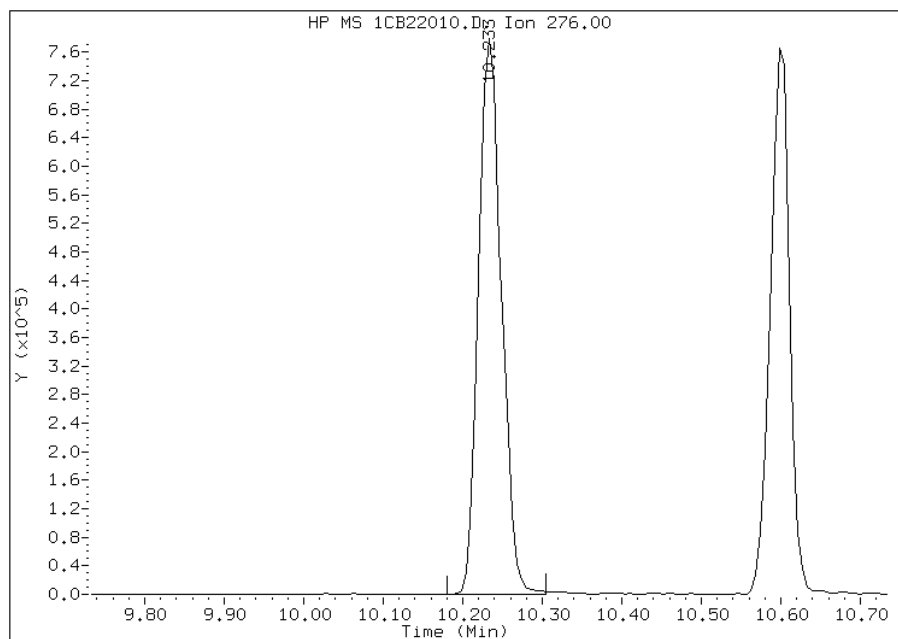


Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

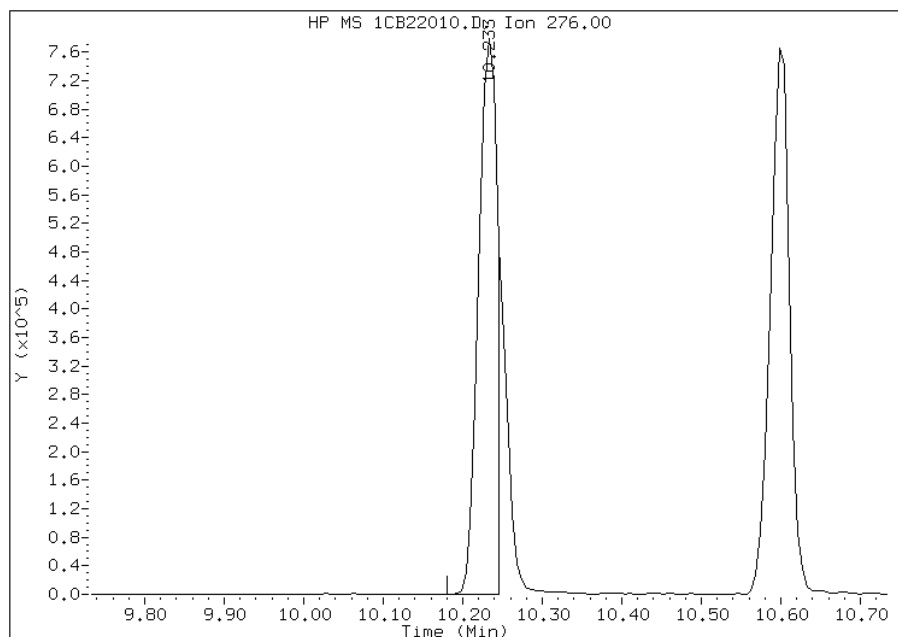
Processing Integration Results

RT: 10.23
Response: 1550656
Amount: 21
Conc: 21



Manual Integration Results

RT: 10.23
Response: 1271997
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Lab Sample ID: CCVIS 660-135453/3 Calibration Date: 03/14/2013 11:35
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CC14003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.088	0.0000	20900	20000	4.5	20.0
2-Methylnaphthalene	Ave	0.6946	0.7260	0.0000	20900	20000	4.5	20.0
1-Methylnaphthalene	Ave	0.6326	0.6773	0.0000	21400	20000	7.1	20.0
Acenaphthylene	Ave	1.613	1.627	0.0000	20200	20000	0.9	20.0
Acenaphthene	Ave	1.002	0.9518	0.0000	19000	20000	-5.0	20.0
Fluorene	Ave	1.268	1.289	0.0000	20300	20000	1.7	20.0
Phenanthrene	Ave	1.157	1.083	0.0000	18700	20000	-6.4	20.0
Anthracene	Ave	1.131	1.118	0.0000	19800	20000	-1.1	20.0
Carbazole	Ave	1.006	0.9628	0.0000	19100	20000	-4.3	20.0
Fluoranthene	Ave	1.267	1.278	0.0000	20200	20000	0.9	20.0
Pyrene	Ave	1.075	1.087	0.0000	20200	20000	1.1	20.0
Benzo[a]anthracene	Ave	1.154	1.059	0.0000	18300	20000	-8.3	20.0
Chrysene	Ave	1.155	1.046	0.0000	18100	20000	-9.5	20.0
Benzo[b]fluoranthene	Ave	1.045	1.047	0.0000	20000	20000	0.2	20.0
Benzo[k]fluoranthene	Ave	1.072	1.101	0.0000	20500	20000	2.7	20.0
Benzo[a]pyrene	Ave	1.015	1.018	0.0000	20100	20000	0.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9691	0.0000	20300	20000	1.5	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8714	0.0000	18700	20000	-6.7	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9355	0.0000	18700	20000	-6.4	20.0
o-Terphenyl	Ave	0.6039	0.5906	0.0000	19600	20000	-2.2	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 14-MAR-2013 11:35
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.751	3.751	(1.000)	916985	40.0000	(H)
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	747114	40.0000	(H)
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1456984	40.0000	(H)
\$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	430233	20.0000	19.5578(H)
* 18 Chrysene-d12	240	7.733	7.733	(1.000)	1842127	40.0000	(H)
* 23 Perylene-d12	264	8.927	8.927	(1.000)	1864332	40.0000	(H)
2 Naphthalene	128	3.768	3.768	(1.005)	499061	20.0000	20.9051(H)
3 2-Methylnaphthalene	142	4.192	4.192	(1.118)	332883	20.0000	20.9044(H)
4 1-Methylnaphthalene	142	4.257	4.257	(1.135)	310550	20.0000	21.4127(H)
5 Acenaphthylene	152	4.751	4.751	(0.982)	607895	20.0000	20.1815(H)
7 Acenaphthene	154	4.857	4.857	(1.004)	355559	20.0000	18.9914(H)
9 Fluorene	166	5.180	5.180	(1.070)	481421	20.0000	20.3324(H)
11 Phenanthrene	178	5.804	5.804	(1.003)	788729	20.0000	18.7215(H)
12 Anthracene	178	5.839	5.839	(1.009)	814620	20.0000	19.7711(H)
13 Carbazole	167	5.945	5.945	(1.027)	701368	20.0000	19.1494(H)
15 Fluoranthene	202	6.639	6.639	(1.147)	930792	20.0000	20.1745(H)
16 Pyrene	202	6.809	6.809	(0.881)	1000803	20.0000	20.2163(H)
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	975022	20.0000	18.3387(H)
19 Chrysene	228	7.751	7.751	(1.002)	963220	20.0000	18.1031(H)
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.960)	976202	20.0000	20.0361(H)
21 Benzo(k)fluoranthene	252	8.598	8.598	(0.963)	1026727	20.0000	20.5422(H)
22 Benzo(a)pyrene	252	8.868	8.868	(0.993)	949241	20.0000	20.0579(H)
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.131)	903400	20.0000	20.2922(MH)
25 Dibenzo(a,h)anthracene	278	10.121	10.121	(1.134)	812326	20.0000	18.6543(H)
26 Benzo(g,h,i)perylene	276	10.456	10.456	(1.171)	872018	20.0000	18.7244(H)

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File: 1CC14003.D

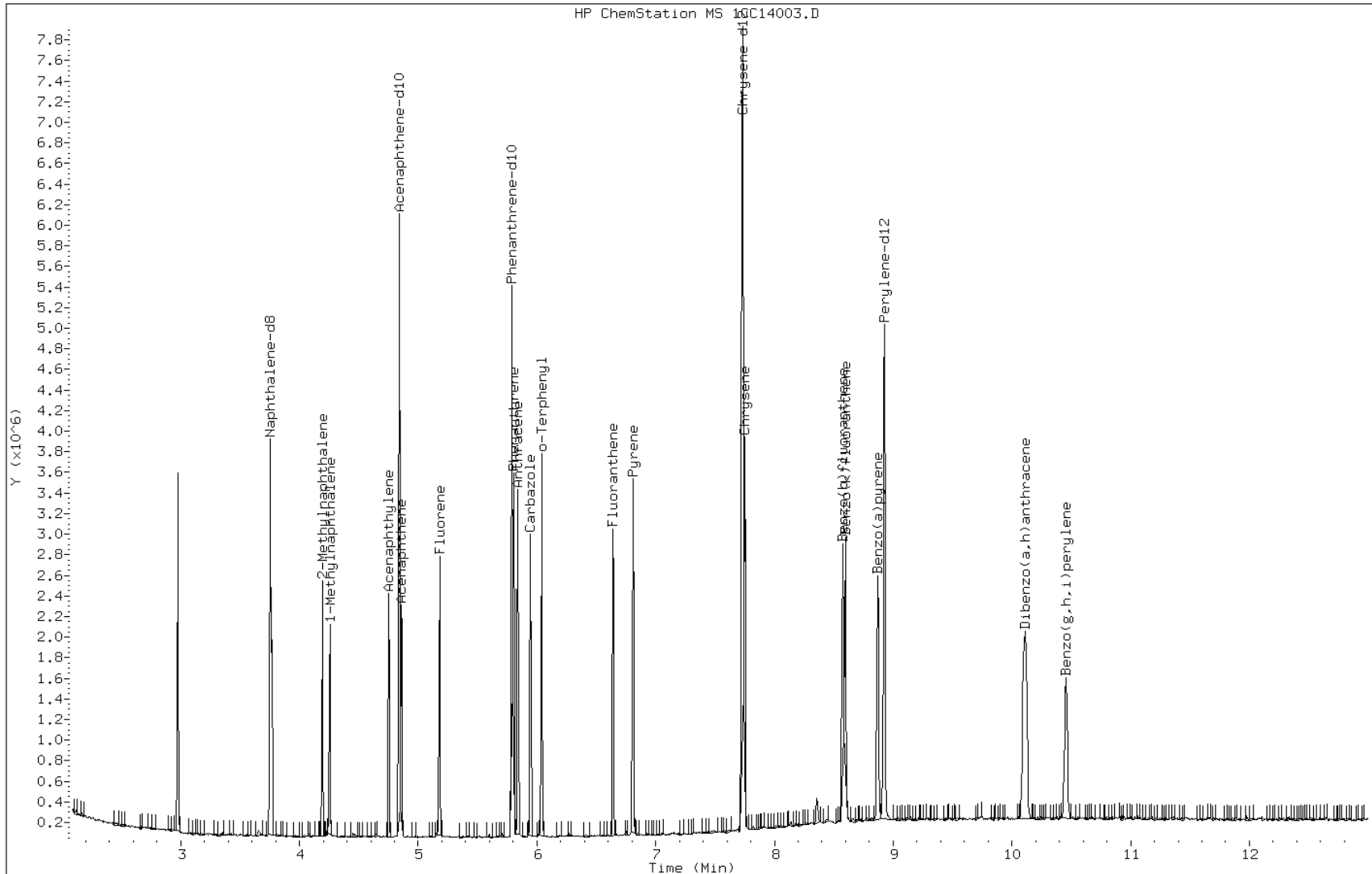
Date: 14-MAR-2013 11:35

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

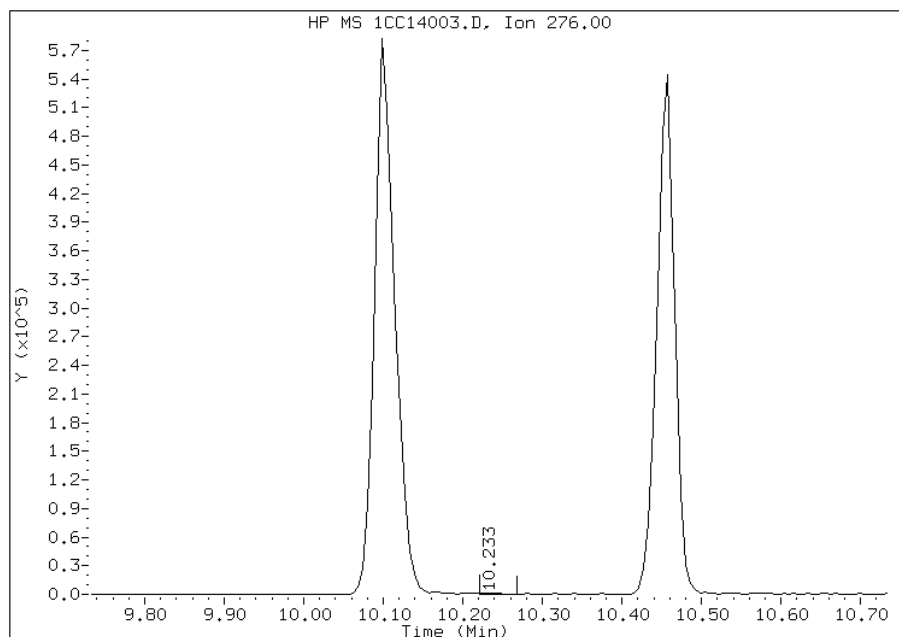


Manual Integration Report

Data File: 1CC14003.D
Inj. Date and Time: 14-MAR-2013 11:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

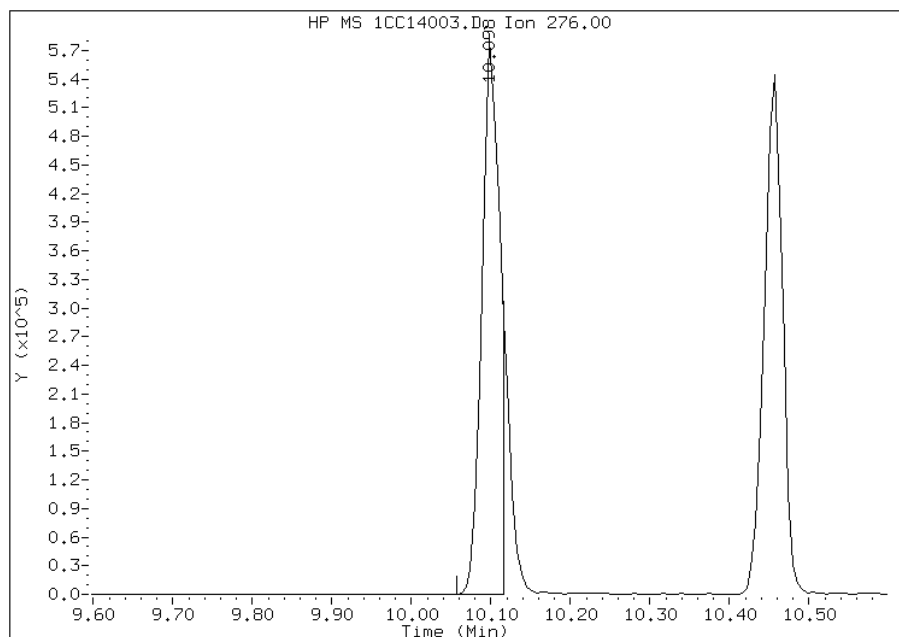
Processing Integration Results

RT: 10.23
Response: 1869
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.10
Response: 903400
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 11:51
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-FEB-2013 11:41
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.404	7.469	-0.065	198	73440			50.00-	0.00	100.00
7.404	7.469	-0.065	51	31096			10.00-	80.00	42.34
7.404	7.469	-0.065	68	471			0.00-	2.00	1.08
7.404	7.469	-0.065	69	43512			0.00-	0.00	59.25
7.404	7.469	-0.065	70	192			0.00-	2.00	0.44
7.404	7.469	-0.065	127	39368			10.00-	80.00	53.61
7.404	7.469	-0.065	197	733			0.00-	2.00	1.00
7.404	7.469	-0.065	442	38240			50.00-	0.00	52.07
7.404	7.469	-0.065	199	6330			5.00-	9.00	8.62
7.404	7.469	-0.065	275	14104			10.00-	60.00	19.20
7.404	7.469	-0.065	365	1462			1.00-	0.00	1.99
7.404	7.469	-0.065	441	5496			0.01-	99.99	86.06
7.404	7.469	-0.065	443	6386			15.00-	24.00	16.70

Data File: 1CB22002.D

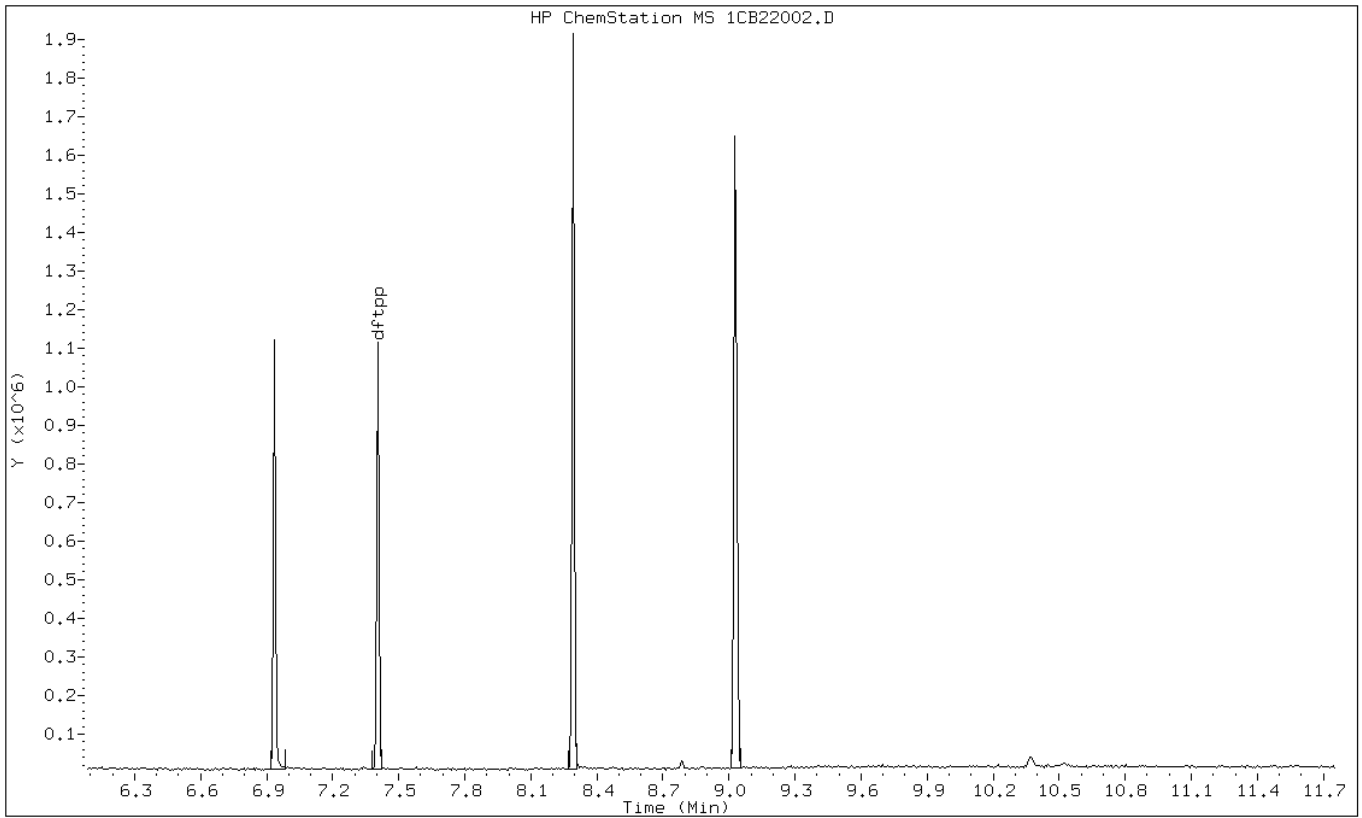
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

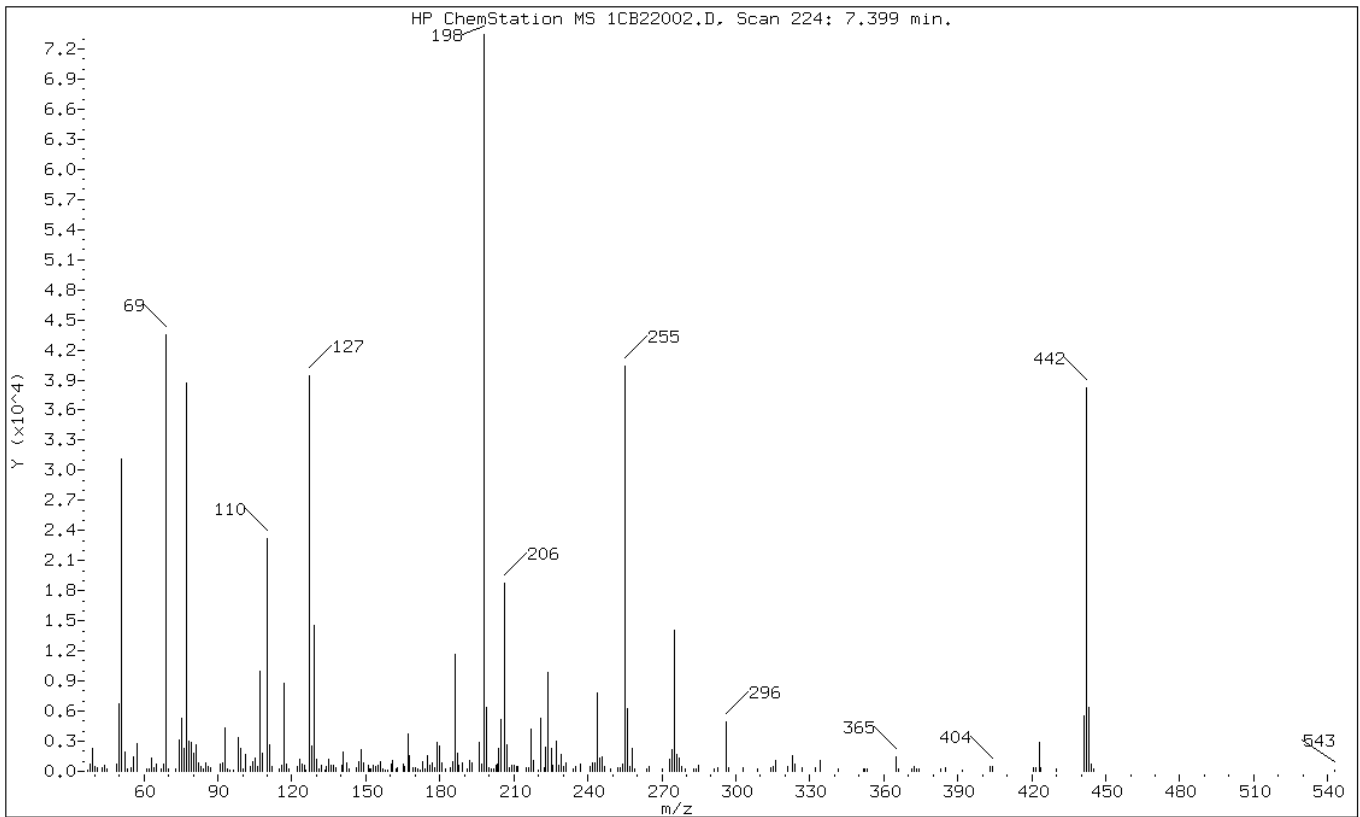
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D

Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.

Location of Maximum: 198.00

Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
+-----+							
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
+-----+							
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
+-----+							
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 14-MAR-2013 11:18
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO		
====	=====	=====	====	=====	=====	=====	=====		
1 dftpp					CAS #: 5074-71-5				
7.351	7.469	-0.118	198	127800		50.00- 0.00	100.00		
7.351	7.469	-0.118	51	49216		10.00- 80.00	38.51		
7.351	7.469	-0.118	68	1164		0.00- 2.00	1.83		
7.351	7.469	-0.118	69	63624		0.00- 0.00	49.78		
7.351	7.469	-0.118	70	345		0.00- 2.00	0.54		
7.351	7.469	-0.118	127	64360		10.00- 80.00	50.36		
7.351	7.469	-0.118	197	0	0.0	0.0	0.00- 2.00	0.00	
7.351	7.469	-0.118	442	80712		50.00- 0.00	63.15		
7.351	7.469	-0.118	199	9897		5.00- 9.00	7.74		
7.351	7.469	-0.118	275	26152		10.00- 60.00	20.46		
7.351	7.469	-0.118	365	3478		1.00- 0.00	2.72		
7.351	7.469	-0.118	441	13318		0.01- 99.99	80.73		
7.351	7.469	-0.118	443	16496		15.00- 24.00	20.44		

Data File: 1CC14002.D

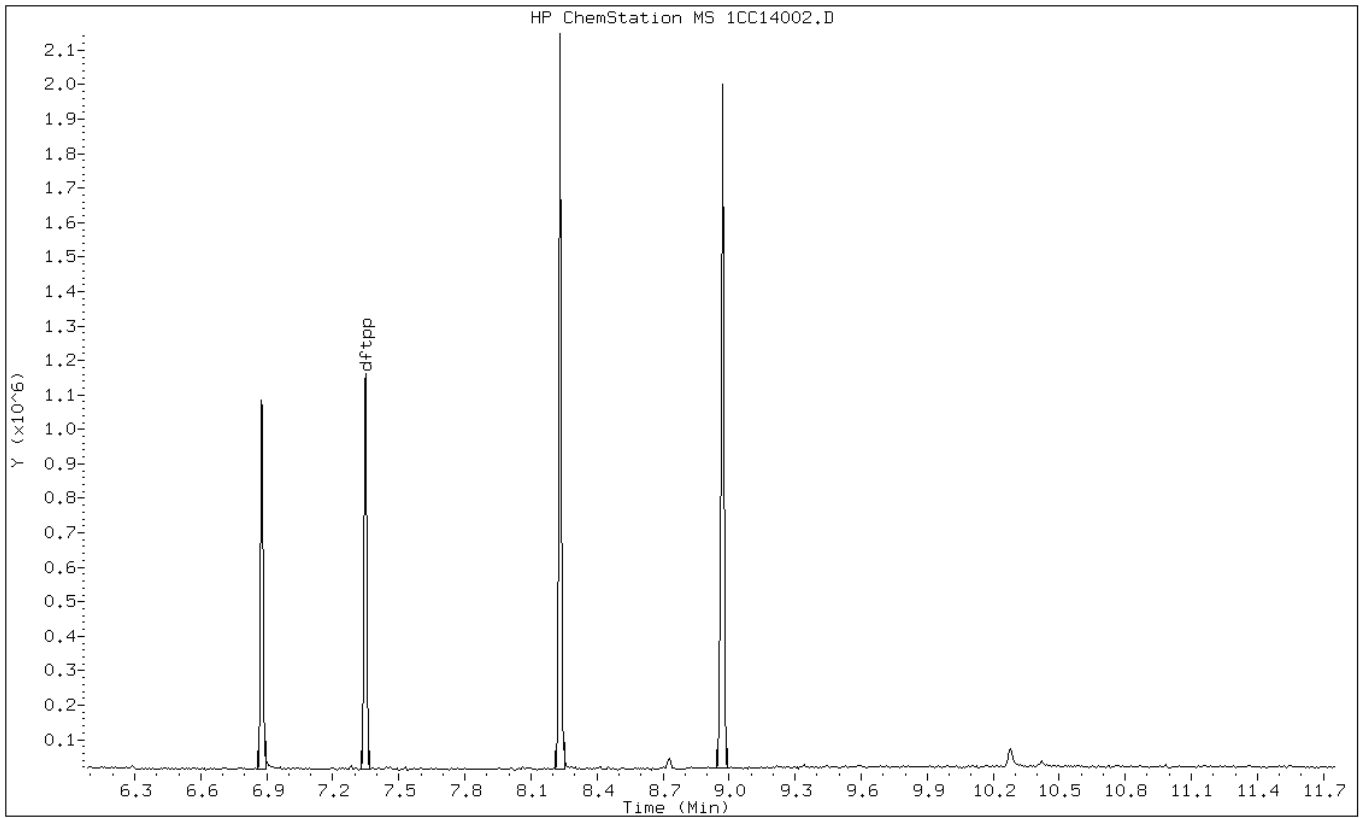
Date: 14-MAR-2013 11:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC14002.D

Date: 14-MAR-2013 11:18

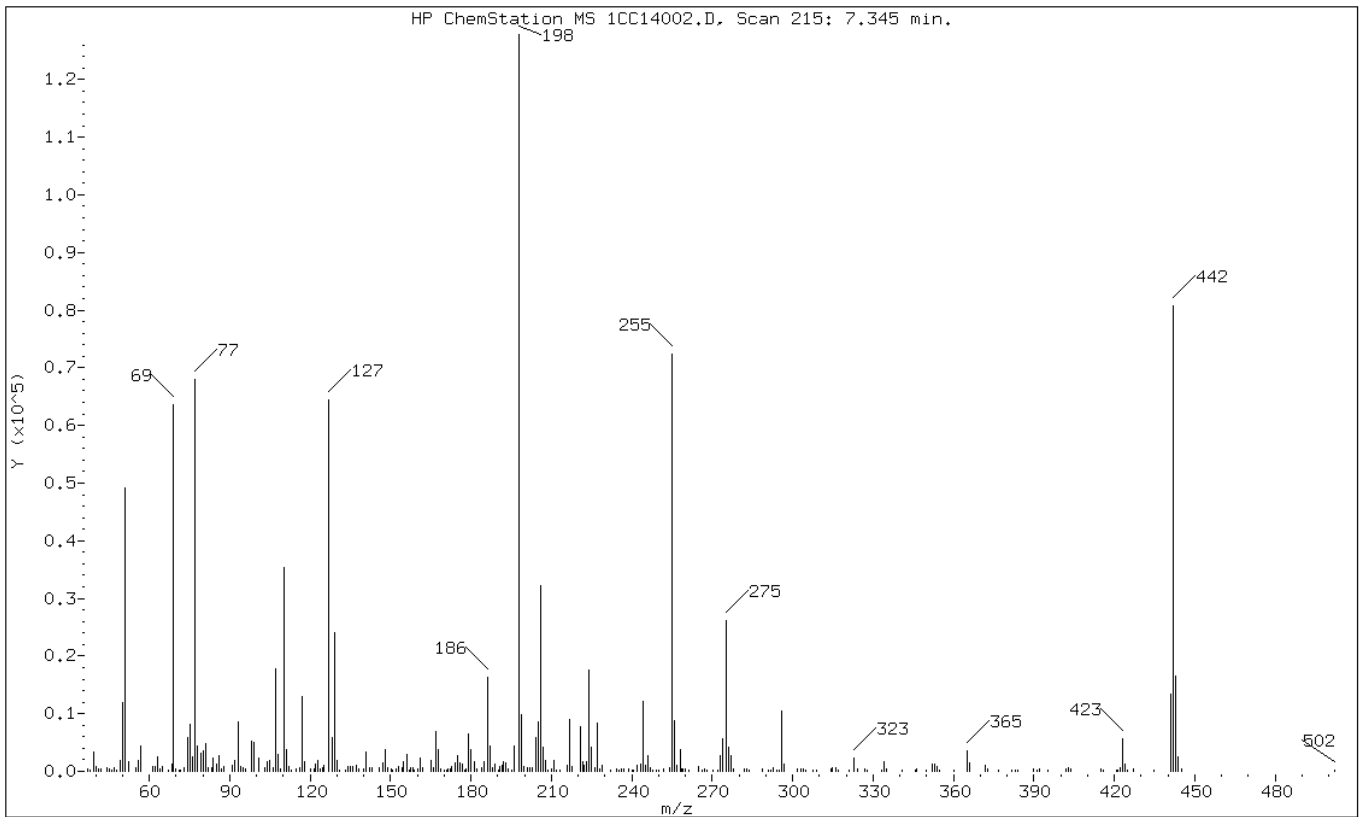
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	38.51
68	Less than 2.00% of mass 69	0.91 (1.83)
69	Mass 69 relative abundance	49.78
70	Less than 2.00% of mass 69	0.27 (0.54)
127	10.00 - 80.00% of mass 198	50.36
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	63.15
199	5.00 - 9.00% of mass 198	7.74
275	10.00 - 60.00% of mass 198	20.46
365	Greater than 1.00% of mass 198	2.72
441	Present, but less than mass 443	10.42
443	15.00 - 24.00% of mass 442	12.91 (20.44)

Data File: 1CC14002.D

Date: 14-MAR-2013 11:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMC5973.i\1C031413.b\1CC14002.D

Spectrum: HP ChemStation MS 1CC14002.D, Scan 215: 7.345 min.

Location of Maximum: 198.00

Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	435	122.10	1334	196.10	4446	282.90	426
38.00	205	123.00	1891	198.00	127800	283.80	259
39.10	3412	123.90	520	199.00	9897	288.90	356
40.00	869	124.50	637	199.80	762	291.00	178
41.10	323	125.00	1097	201.20	684	291.80	152
42.10	371	127.10	64360	202.10	569	292.80	540
44.10	646	128.10	5912	202.80	723	293.90	226
44.90	365	129.00	24088	204.00	5948	295.10	194
46.10	286	130.10	1879	205.00	8516	296.00	10430
47.10	675	131.00	282	206.10	32112	297.00	1280
47.80	205	133.10	195	207.10	4096	301.80	338
49.20	1956	134.00	758	208.00	1792	302.90	507
50.10	11989	135.00	895	208.80	279	303.90	349
51.10	49216	136.00	808	210.10	395	304.90	261
52.10	1694	137.10	954	211.10	1799	307.50	287
55.20	636	138.00	343	211.80	222	308.90	286
56.00	1787	140.10	485	213.20	242	314.10	514
57.00	4354	141.00	3275	216.00	1131	314.80	689
61.10	905	142.00	675	217.00	9058	316.00	565
62.00	761	142.90	687	217.90	858	317.20	201
63.20	2453	145.90	523	221.00	7668	321.00	178
64.10	399	147.10	1497	221.60	1670	323.00	2275
65.00	851	148.00	3796	222.20	1019	324.00	419
67.10	157	149.10	581	223.10	1607	327.00	490
68.30	1164	150.20	324	224.00	17552	327.90	160
69.00	63624	150.90	225	225.10	4155	333.10	284
69.90	345	152.20	326	226.10	527	333.90	1609
71.10	163	152.80	767	227.00	8275	334.90	325
71.70	223	154.10	702	227.90	399	341.00	239
73.00	613	154.90	1606	229.00	1006	345.60	266
74.10	5857	156.10	2960	232.00	180	346.20	416
75.10	8112	156.80	277	234.10	460	349.70	150
76.00	2466	157.30	544	235.20	292	352.10	1322
77.10	67888	158.20	558	236.00	515	353.00	1156
78.10	4315	158.90	182	236.80	370	354.10	915
79.10	3164	160.00	494	237.10	343	354.70	248
80.00	3452	161.00	2279	238.80	479	360.20	168
81.10	4796	162.00	620	240.00	299	364.90	3478
82.00	694	165.00	1791	240.70	227	366.00	1412
83.10	682	165.90	624	242.10	1004	372.00	1074

83.90	2216	167.00	6952	243.10	1153	372.90	396
85.00	1259	168.00	3812	244.10	12224	377.00	179
86.00	2616	168.90	425	245.00	1133	381.70	295
87.10	346	170.10	167	245.90	2797	382.90	303
87.90	734	170.90	292	246.90	706	384.10	254
91.00	1077	171.50	403	248.00	282	390.00	480
92.00	1910	172.20	487	249.00	260	391.00	299
93.00	8525	172.90	854	249.90	220	392.00	366
94.10	755	174.00	1500	252.00	373	395.30	167
95.20	589	175.10	2819	254.00	627	402.00	468
96.00	470	175.90	1420	255.00	72336	402.90	533
98.00	5256	176.90	1267	256.00	8880	403.90	358
99.10	4988	177.60	198	256.90	1111	414.80	314
101.00	2201	178.20	514	258.00	3683	415.70	240
103.00	674	179.00	6554	258.80	326	420.90	277
104.00	1654	180.10	3718	259.10	343	421.20	308
105.00	1827	181.10	1643	260.00	344	422.00	567
106.10	551	182.10	513	261.10	306	423.10	5631
107.10	17736	184.00	644	265.00	922	424.00	1356
108.10	2903	184.90	1724	266.10	177	424.70	178
108.90	485	186.10	16392	267.10	356	425.10	193
110.10	35288	187.00	4414	267.90	209	427.10	443
111.10	3731	188.20	596	270.10	183	434.60	204
112.20	890	189.00	1319	272.10	276	441.00	13318
112.90	212	190.10	254	272.90	2616	442.00	80712
114.90	318	190.90	736	274.00	5638	443.00	16496
116.20	720	191.50	1079	275.00	26152	443.90	2464
117.00	13002	192.10	1623	276.10	4093	444.90	431
118.10	1591	193.00	1497	276.90	2743	502.20	297
120.20	374	194.00	416	277.70	368		
121.30	442	195.00	286	282.00	489		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: _____ Lab Sample ID: MB 660-135343/1-A
 Matrix: Solid Lab File ID: 1CC14005.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.41(g) Date Analyzed: 03/14/2013 12:12
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14005.D
 Lab Smp Id: mb 660-135343/1-a
 Inj Date : 14-MAR-2013 12:12
 Operator : SCC
 Smp Info : mb 660-135343/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.410	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	884986	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	692456	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1356649	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.039	(1.044)	161934	7.90574	513.0267
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1693605	40.0000	
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1765518	40.0000	

Data File: 1CC14005.D

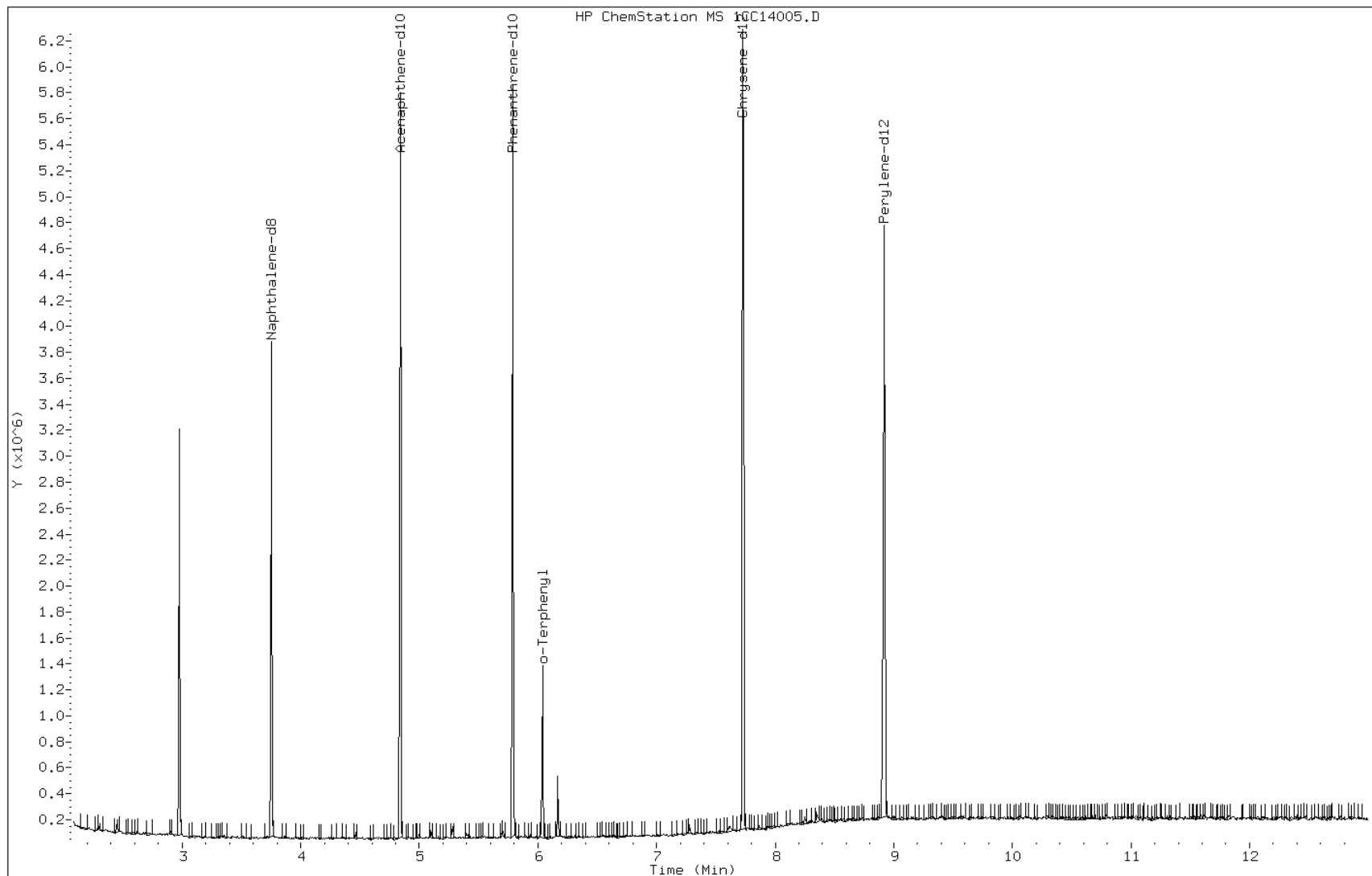
Date: 14-MAR-2013 12:12

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135343/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: _____ Lab Sample ID: LCS 660-135343/2-A
 Matrix: Solid Lab File ID: 1CC14006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.24(g) Date Analyzed: 03/14/2013 12:30
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	484		98	20
208-96-8	Acenaphthylene	504		39	4.9
120-12-7	Anthracene	524		8.3	4.1
56-55-3	Benzo[a]anthracene	524		7.9	3.8
50-32-8	Benzo[a]pyrene	477		10	5.1
205-99-2	Benzo[b]fluoranthene	541		12	6.0
191-24-2	Benzo[g,h,i]perylene	487		20	4.3
207-08-9	Benzo[k]fluoranthene	514		7.9	3.5
218-01-9	Chrysene	502		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	513		20	4.0
206-44-0	Fluoranthene	532		20	3.9
86-73-7	Fluorene	524		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	468		20	7.0
90-12-0	1-Methylnaphthalene	542		39	4.3
91-57-6	2-Methylnaphthalene	532		39	7.0
91-20-3	Naphthalene	510		39	4.3
85-01-8	Phenanthrene	499		7.9	3.8
129-00-0	Pyrene	526		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14006.D
 Lab Smp Id: lcs 660-135343/2-a
 Inj Date : 14-MAR-2013 12:30
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : lcs 660-135343/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 6 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	917299	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	727709	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1386401	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.039	(1.044)	164465	7.85700	515.5511
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1719095	40.0000	
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1717036	40.0000	
2 Naphthalene	128		3.763	3.768	(1.003)	185732	7.77747	510.3329
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	129195	8.11042	532.1796
4 1-Methylnaphthalene	142		4.251	4.257	(1.133)	119765	8.25511	541.6741
5 Acenaphthylene	152		4.751	4.751	(0.982)	225311	7.67959	503.9100
7 Acenaphthene	154		4.857	4.857	(1.004)	134437	7.37215	483.7368
9 Fluorene	166		5.180	5.180	(1.070)	184011	7.97880	523.5435
11 Phenanthrene	178		5.804	5.804	(1.003)	304899	7.60563	499.0570
12 Anthracene	178		5.839	5.839	(1.009)	312945	7.98199	523.7525

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.945	5.945	(1.027)	294218	8.44199	553.9361
15 Fluoranthene	202	6.639	6.639	(1.147)	356067	8.11052	532.1865
16 Pyrene	202	6.810	6.809	(0.881)	370404	8.01771	526.0966
17 Benzo(a)anthracene	228	7.721	7.721	(0.999)	395924	7.97970	523.6023
19 Chrysene	228	7.751	7.751	(1.003)	379778	7.64854	501.8725
20 Benzo(b)fluoranthene	252	8.568	8.574	(0.960)	370154	8.24901	541.2736
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	360798	7.83794	514.3004
22 Benzo(a)pyrene	252	8.862	8.868	(0.993)	316763	7.26755	476.8734
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.097	(1.131)	292294	7.12877	467.7671(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.121	(1.133)	313789	7.82404	513.3886
26 Benzo(g,h,i)perylene	276	10.439	10.456	(1.170)	318560	7.42710	487.3426

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC14006.D

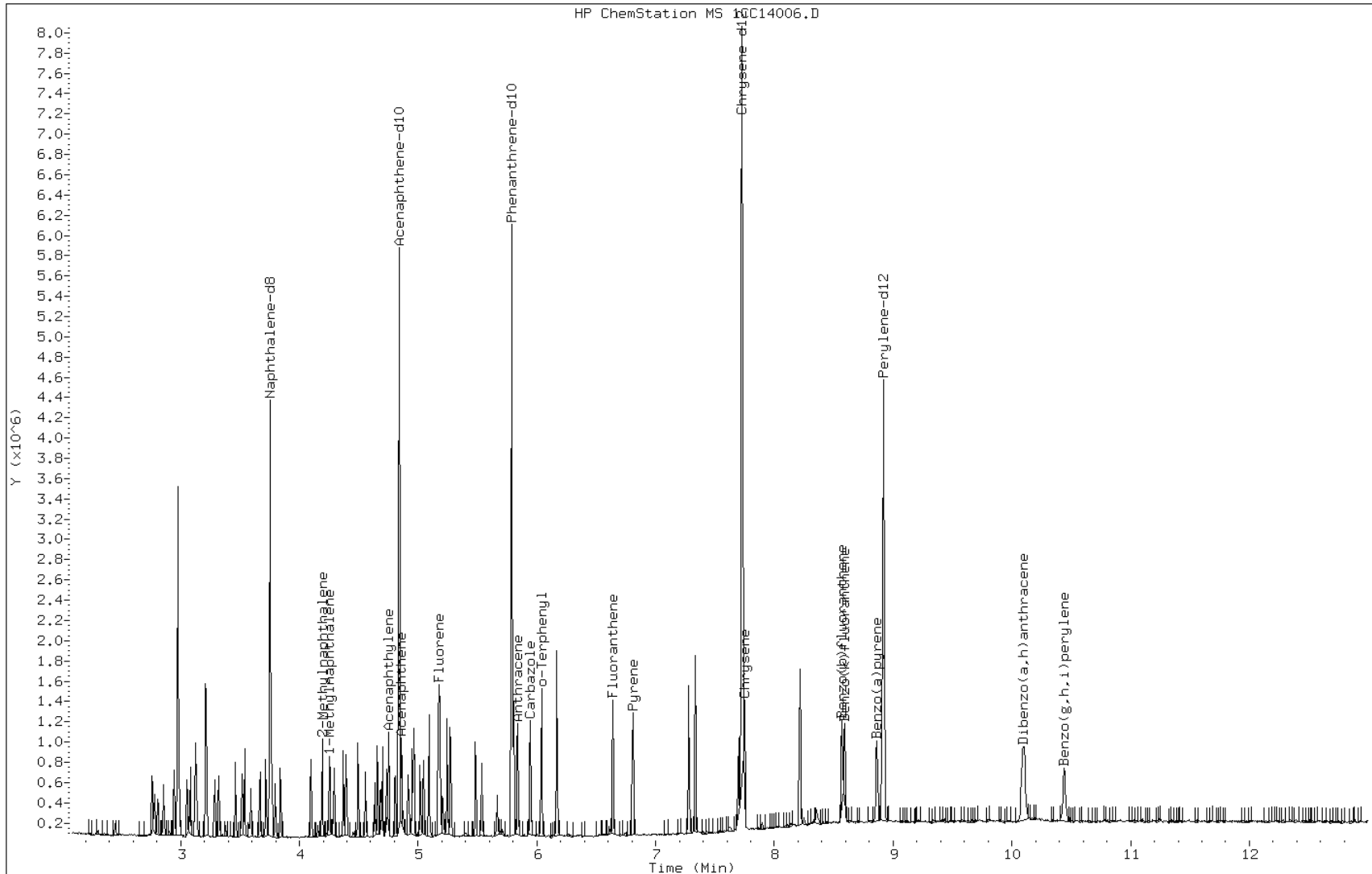
Date: 14-MAR-2013 12:30

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135343/2-a

Operator: SCC

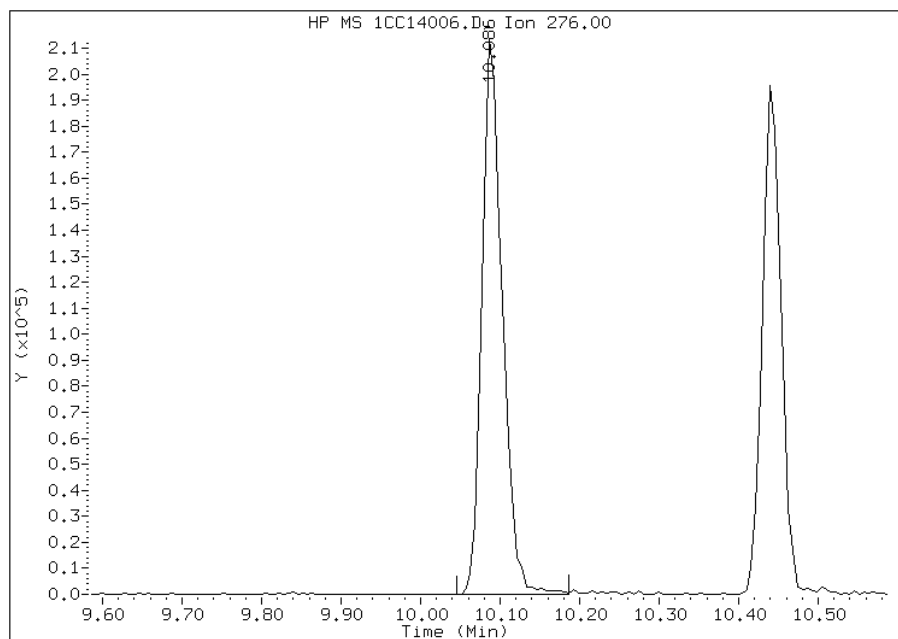


Manual Integration Report

Data File: 1CC14006.D
Inj. Date and Time: 14-MAR-2013 12:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

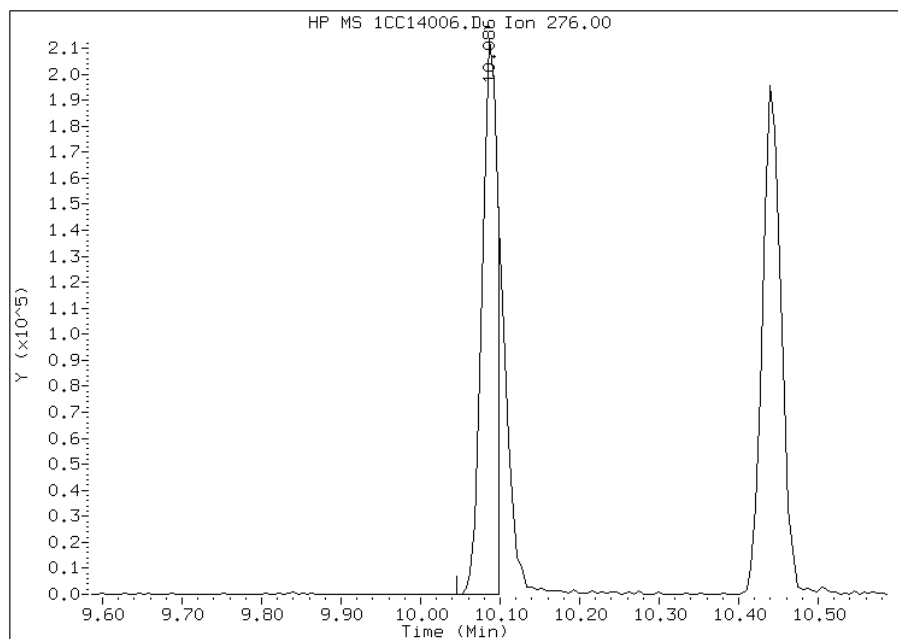
Processing Integration Results

RT: 10.09
Response: 377182
Amount: 9
Conc: 604



Manual Integration Results

RT: 10.09
Response: 292294
Amount: 7
Conc: 468



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 12:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0399A-CS-SP MS Lab Sample ID: 680-88067-21 MS
 Matrix: Solid Lab File ID: 1CC14018.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 10:38
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.19(g) Date Analyzed: 03/14/2013 16:10
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	518		120	25
208-96-8	Acenaphthylene	507		49	6.2
120-12-7	Anthracene	645		10	5.2
56-55-3	Benzo[a]anthracene	952		9.8	4.8
50-32-8	Benzo[a]pyrene	884		13	6.4
205-99-2	Benzo[b]fluoranthene	1170		15	7.5
191-24-2	Benzo[g,h,i]perylene	776		25	5.4
207-08-9	Benzo[k]fluoranthene	844		9.8	4.4
218-01-9	Chrysene	913		11	5.5
53-70-3	Dibenz(a,h)anthracene	651		25	5.0
206-44-0	Fluoranthene	1170		25	4.9
86-73-7	Fluorene	604		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	741		25	8.7
90-12-0	1-Methylnaphthalene	569		49	5.4
91-57-6	2-Methylnaphthalene	531		49	8.7
91-20-3	Naphthalene	452		49	5.4
85-01-8	Phenanthrene	882		9.8	4.8
129-00-0	Pyrene	1150		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14018.D
 Lab Smp Id: 680-88067-a-21-b ms
 Inj Date : 14-MAR-2013 16:10
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-21-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 18 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	1012737	40.0000		
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	839896	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1549703	40.0000		
\$ 14 o-Terphenyl	230		6.039	6.039	(1.044)	158198	6.76121	445.1094	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	1685259	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1515409	40.0000		
2 Naphthalene	128		3.769	3.768	(1.005)	145244	5.50889	362.6657	
3 2-Methylnaphthalene	142		4.192	4.192	(1.118)	113778	6.46949	425.9045	
4 1-Methylnaphthalene	142		4.257	4.257	(1.135)	111038	6.93233	456.3744	
5 Acenaphthylene	152		4.751	4.751	(0.982)	209165	6.17699	406.6483	
7 Acenaphthene	154		4.857	4.857	(1.004)	132815	6.31037	415.4290	
9 Fluorene	166		5.180	5.180	(1.070)	195985	7.36290	484.7204	
11 Phenanthrene	178		5.804	5.804	(1.003)	481910	10.7544	707.9910	
12 Anthracene	178		5.839	5.839	(1.009)	344492	7.86073	517.4934	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.945	5.945	(1.027)	313973	8.05950	530.5793
15 Fluoranthene	202	6.639	6.639	(1.147)	700379	14.2722	939.5780(R)
16 Pyrene	202	6.810	6.809	(0.881)	636396	14.0519	925.0767(R)
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	564727	11.6104	764.3437
19 Chrysene	228	7.751	7.751	(1.002)	542139	11.1376	733.2207
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	564513	14.2542	938.3937(R)
21 Benzo(k)fluoranthene	252	8.598	8.598	(0.964)	417882	10.2859	677.1473
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	414857	10.7845	709.9763
24 Indeno(1,2,3-cd)pyrene	276	10.104	10.097	(1.133)	326809	9.03105	594.5392(M)
25 Dibenzo(a,h)anthracene	278	10.115	10.121	(1.134)	281059	7.94037	522.7363
26 Benzo(g,h,i)perylene	276	10.456	10.456	(1.172)	358010	9.45742	622.6085

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC14018.D

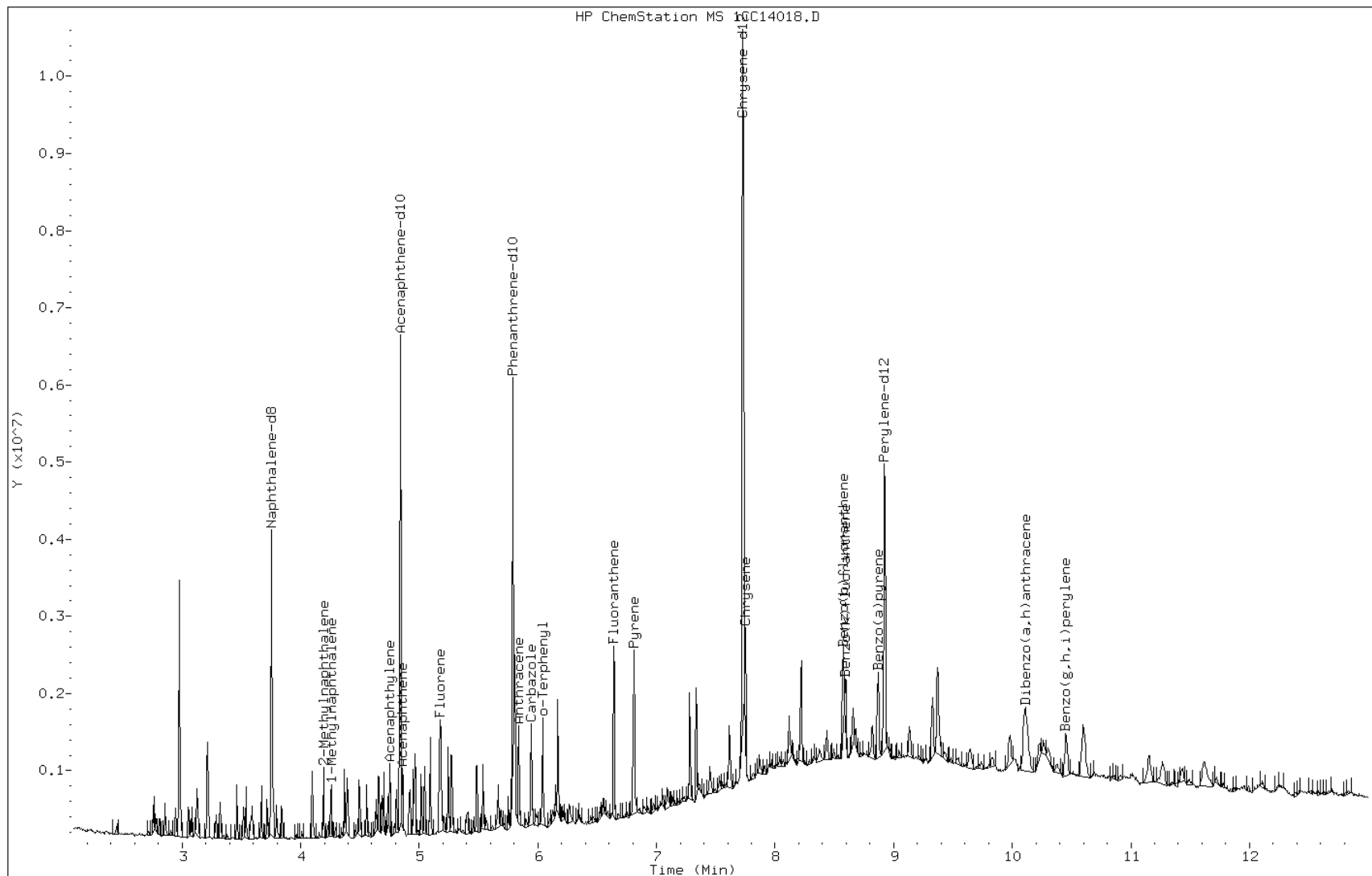
Date: 14-MAR-2013 16:10

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-b ms

Operator: SCC

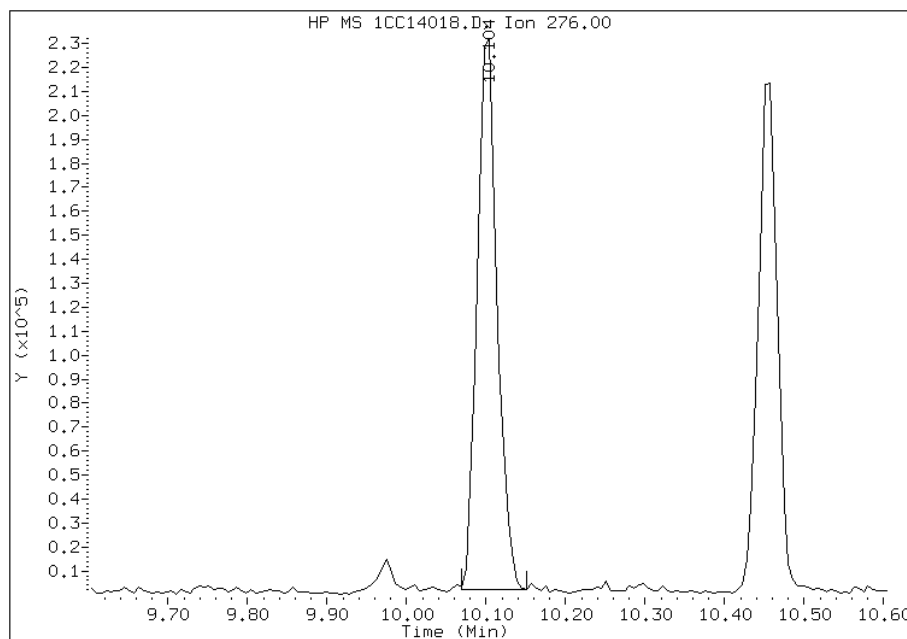


Manual Integration Report

Data File: 1CC14018.D
Inj. Date and Time: 14-MAR-2013 16:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

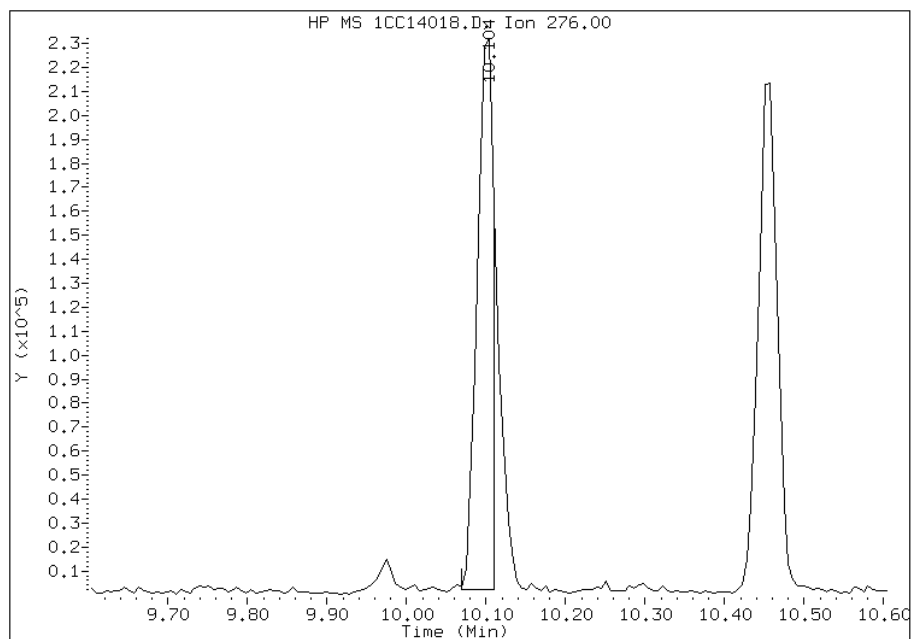
Processing Integration Results

RT: 10.10
Response: 397906
Amount: 11
Conc: 724



Manual Integration Results

RT: 10.10
Response: 326809
Amount: 9
Conc: 595



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
 SDG No.: 68088067-2
 Client Sample ID: CV0399A-CS-SP MSD Lab Sample ID: 680-88067-21 MSD
 Matrix: Solid Lab File ID: 1CC14019.D
 Analysis Method: 8270C LL Date Collected: 03/05/2013 10:38
 Extract. Method: 3546 Date Extracted: 03/13/2013 12:00
 Sample wt/vol: 15.19(g) Date Analyzed: 03/14/2013 16:29
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135453 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	553		120	25
208-96-8	Acenaphthylene	591		49	6.2
120-12-7	Anthracene	645		10	5.2
56-55-3	Benzo[a]anthracene	998		9.8	4.8
50-32-8	Benzo[a]pyrene	918		13	6.4
205-99-2	Benzo[b]fluoranthene	1230		15	7.5
191-24-2	Benzo[g,h,i]perylene	790		25	5.4
207-08-9	Benzo[k]fluoranthene	853		9.8	4.4
218-01-9	Chrysene	919		11	5.5
53-70-3	Dibenz(a,h)anthracene	648		25	5.0
206-44-0	Fluoranthene	1320		25	4.9
86-73-7	Fluorene	580		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	780		25	8.7
90-12-0	1-Methylnaphthalene	627		49	5.4
91-57-6	2-Methylnaphthalene	614		49	8.7
91-20-3	Naphthalene	552		49	5.4
85-01-8	Phenanthrene	929		9.8	4.8
129-00-0	Pyrene	1250		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14019.D
 Lab Smp Id: 680-88067-a-21-c ms
 Inj Date : 14-MAR-2013 16:29
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88067-a-21-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
 Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 19 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	3.757	3.751	(1.000)	982850	40.0000	
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	793699	40.0000	
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1510668	40.0000	
\$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	154958	6.79387	447.2591
* 18 Chrysene-d12	240	7.733	7.733	(1.000)	1697498	40.0000	
* 23 Perylene-d12	264	8.921	8.927	(1.000)	1514801	40.0000	
2 Naphthalene	128	3.768	3.768	(1.003)	172086	6.72545	442.7548
3 2-Methylnaphthalene	142	4.192	4.192	(1.116)	127821	7.48899	493.0212
4 1-Methylnaphthalene	142	4.257	4.257	(1.133)	118815	7.64343	503.1880
5 Acenaphthylene	152	4.751	4.751	(0.982)	230508	7.20350	474.2264
7 Acenaphthene	154	4.863	4.857	(1.005)	134150	6.74478	444.0277
9 Fluorene	166	5.180	5.180	(1.070)	177928	7.07360	465.6745
11 Phenanthrene	178	5.804	5.804	(1.003)	494855	11.3286	745.7945
12 Anthracene	178	5.839	5.839	(1.009)	336084	7.86703	517.9084

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.945	5.945	(1.027)	297445	7.83253	515.6371
15 Fluoranthene	202	6.645	6.639	(1.148)	768944	16.0743	1058.2150(R)
16 Pyrene	202	6.809	6.809	(0.881)	696876	15.2764	1005.6878(R)
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	596039	12.1658	800.9072
19 Chrysene	228	7.751	7.751	(1.002)	549539	11.2082	737.8702
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	595690	15.0475	990.6169(R)
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	422565	10.4053	685.0106
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	430362	11.1921	736.8068
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.132)	344083	9.51222	626.2158(M)
25 Dibenzo(a,h)anthracene	278	10.115	10.121	(1.134)	279433	7.89760	519.9208
26 Benzo(g,h,i)perylene	276	10.456	10.456	(1.172)	364473	9.63202	634.1026

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CC14019.D

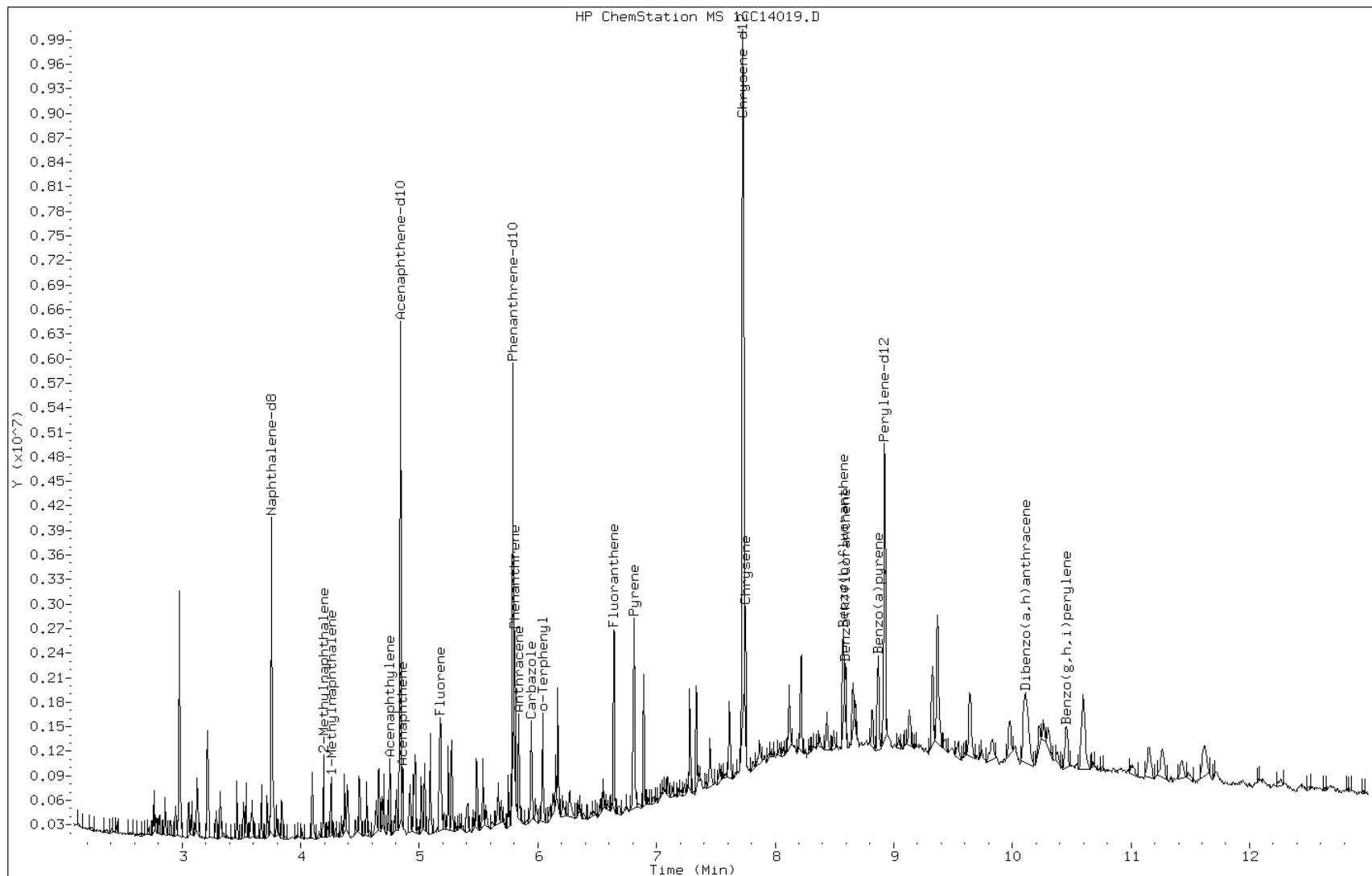
Date: 14-MAR-2013 16:29

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-c msd

Operator: SCC

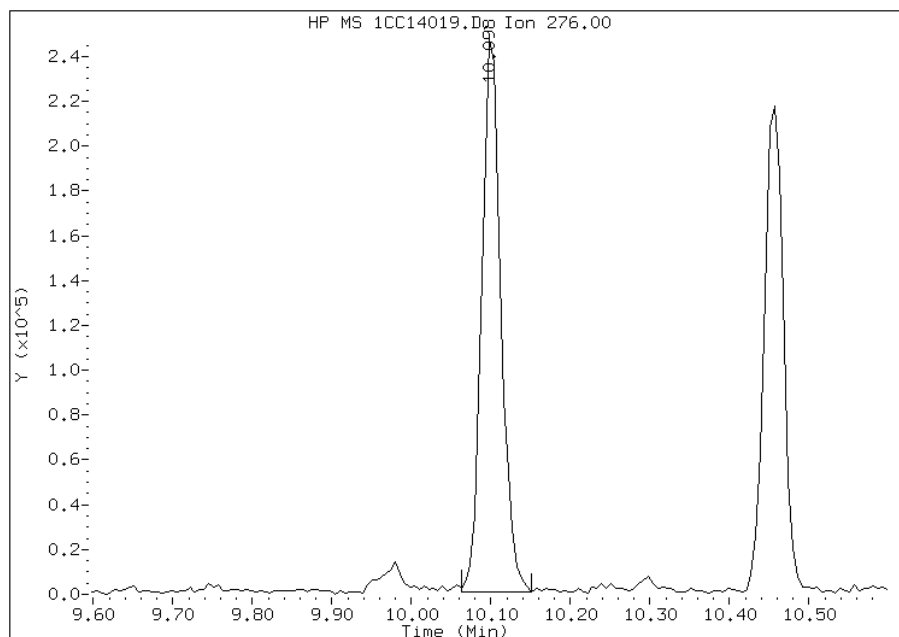


Manual Integration Report

Data File: 1CC14019.D
Inj. Date and Time: 14-MAR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

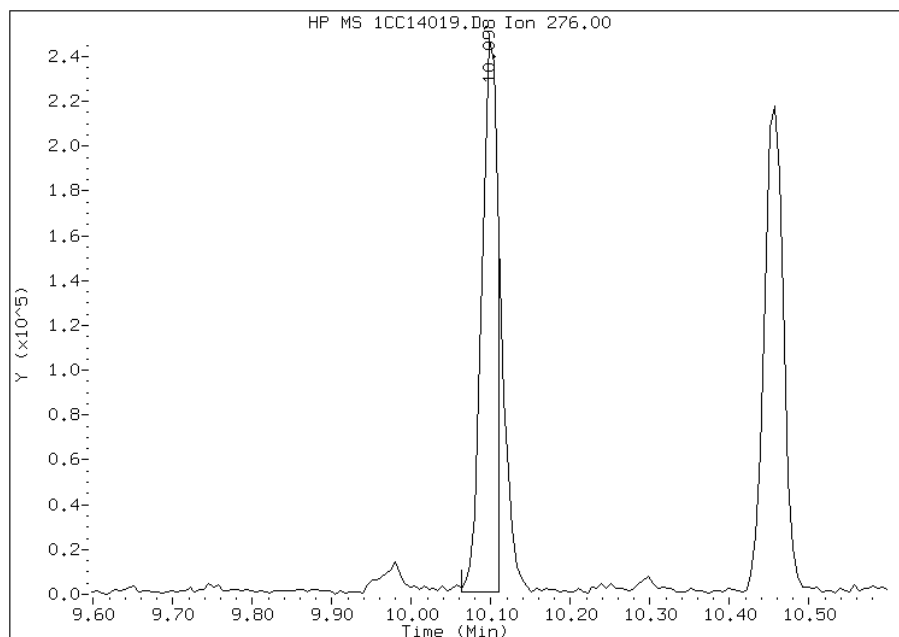
Processing Integration Results

RT: 10.10
Response: 409939
Amount: 11
Conc: 746



Manual Integration Results

RT: 10.10
Response: 344083
Amount: 10
Conc: 626



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:58
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88067-2SDG No.: 68088067-2Instrument ID: BSMC5973 Start Date: 02/22/2013 11:04Analysis Batch Number: 134776 End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88067-2SDG No.: 68088067-2Instrument ID: BSMC5973Start Date: 03/14/2013 10:41Analysis Batch Number: 135453End Date: 03/14/2013 19:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/14/2013 10:41	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 10:59	1		DB-5MS 250 (um)
DFTPP 660-135453/2		03/14/2013 11:18	1	1CC14002.D	DB-5MS 250 (um)
CCVIS 660-135453/3		03/14/2013 11:35	1	1CC14003.D	DB-5MS 250 (um)
ZZZZZ		03/14/2013 11:54	1		DB-5MS 250 (um)
MB 660-135343/1-A		03/14/2013 12:12	1	1CC14005.D	DB-5MS 250 (um)
LCS 660-135343/2-A		03/14/2013 12:30	1	1CC14006.D	DB-5MS 250 (um)
ZZZZZ		03/14/2013 12:49	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 13:07	4		DB-5MS 250 (um)
ZZZZZ		03/14/2013 13:25	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 13:44	4		DB-5MS 250 (um)
ZZZZZ		03/14/2013 14:02	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 14:20	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 14:39	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 14:57	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 15:15	1		DB-5MS 250 (um)
ZZZZZ		03/14/2013 15:33	4		DB-5MS 250 (um)
680-88067-21	CV0399A-CS-SP	03/14/2013 15:52	1	1CC14017.D	DB-5MS 250 (um)
680-88067-21 MS	CV0399A-CS-SP MS	03/14/2013 16:10	1	1CC14018.D	DB-5MS 250 (um)
680-88067-21 MSD	CV0399A-CS-SP MSD	03/14/2013 16:29	1	1CC14019.D	DB-5MS 250 (um)
680-88067-22	CV0399B-CS-SP	03/14/2013 16:47	4	1CC14020.D	DB-5MS 250 (um)
680-88067-23	CV0277A-CS-SP	03/14/2013 17:06	1	1CC14021.D	DB-5MS 250 (um)
680-88067-24	CV0277B-CS-SP	03/14/2013 17:24	1	1CC14022.D	DB-5MS 250 (um)
680-88067-25	CV0632A-SP-SP	03/14/2013 17:42	4	1CC14023.D	DB-5MS 250 (um)
680-88067-26	CV0632B-SP-SP	03/14/2013 18:01	4	1CC14024.D	DB-5MS 250 (um)
680-88067-27	HP0199A-CS	03/14/2013 18:19	1	1CC14025.D	DB-5MS 250 (um)
680-88067-28	HP0199B-CS	03/14/2013 18:37	1	1CC14026.D	DB-5MS 250 (um)
680-88067-29	HP0255B-CS	03/14/2013 18:56	1	1CC14027.D	DB-5MS 250 (um)
680-88067-30	HP0255C-CS	03/14/2013 19:14	1	1CC14028.D	DB-5MS 250 (um)
680-88067-31	HP0258A-CS	03/14/2013 19:32	1	1CC14029.D	DB-5MS 250 (um)
680-88067-32	HP0258B-CS	03/14/2013 19:51	1	1CC14030.D	DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica TampaJob No.: 680-88067-2SDG No.: 68088067-2Batch Number: 135343Batch Start Date: 03/13/13 12:00Batch Analyst: Cerome, SaurelBatch Method: 3546Batch End Date: 03/13/13 17:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135343/1		3546, 8270C LL		15.41 g	1 mL		1 mL		
LCS 660-135343/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL		
680-88067-A-21	CV0399A-CS-SP	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-88067-A-21 MS	CV0399A-CS-SP	3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		
680-88067-A-21 MSD	CV0399A-CS-SP	3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		
680-88067-A-22	CV0399B-CS-SP	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-88067-A-23	CV0277A-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-88067-A-24	CV0277B-CS-SP	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-88067-A-25	CV0632A-SP-SP	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88067-A-26	CV0632B-SP-SP	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-88067-A-27	HP0199A-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-88067-A-28	HP0199B-CS	3546, 8270C LL	T	15.04 g	10 mL		1 mL		
680-88067-A-29	HP0255B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88067-A-30	HP0255C-CS	3546, 8270C LL	T	15.34 g	1 mL		1 mL		
680-88067-A-31	HP0258A-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-88067-A-32	HP0258B-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2SDG No.: 68088067-2Batch Number: 135343 Batch Start Date: 03/13/13 12:00 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/13/13 17:50

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 54
MeCl2/Acetone Lot #	EX-DCM/ACETON 40/41
Microwave Start Time	14:20 3/13/13
Microwave Stop Time	14:55 3/13/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND_12
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40 C for all

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88067-2

SDG No.: 68088067-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV0399A-CS-SP</u>	<u>680-88067-21</u>
<u>CV0399B-CS-SP</u>	<u>680-88067-22</u>
<u>CV0277A-CS-SP</u>	<u>680-88067-23</u>
<u>CV0277B-CS-SP</u>	<u>680-88067-24</u>
<u>CV0632A-SP-SP</u>	<u>680-88067-25</u>
<u>CV0632B-SP-SP</u>	<u>680-88067-26</u>
<u>HP0199A-CS</u>	<u>680-88067-27</u>
<u>HP0199B-CS</u>	<u>680-88067-28</u>
<u>HP0255B-CS</u>	<u>680-88067-29</u>
<u>HP0255C-CS</u>	<u>680-88067-30</u>
<u>HP0258A-CS</u>	<u>680-88067-31</u>
<u>HP0258B-CS</u>	<u>680-88067-32</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88067-2
SDG Number: 68088067-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88067-2
SDG Number: 68088067-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2

SDG No.: 68088067-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/11/2013 07:26 End Date: 03/11/2013 07:26

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				M o i s t																		
MB 660-135227/1	1	T	07:26	X																		
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
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ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
680-88067-30	1	T	07:26	X																		
680-88067-29	1	T	07:26	X																		
680-88067-31	1	T	07:26	X																		
680-88067-32	1	T	07:26	X																		
680-88067-28	1	T	07:26	X																		
680-88067-27	1	T	07:26	X																		
680-88067-26	1	T	07:26	X																		
680-88067-25	1	T	07:26	X																		
680-88067-24	1	T	07:26	X																		
680-88067-23	1	T	07:26	X																		
680-88067-22	1	T	07:26	X																		
680-88067-21	1	T	07:26	X																		
680-88067-21 MS	1	T	07:26	X																		
680-88067-21 MSD	1	T	07:26	X																		
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			
ZZZZZZ			07:26																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88067-2
SDG No.: 68088067-2
Instrument ID: NOEQUIP Method: Moisture
Start Date: 03/11/2013 07:26 End Date: 03/11/2013 07:26

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-2

SDG No.: 68088067-2

Batch Number: 135227 Batch Start Date: 03/11/13 07:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135227/1		Moisture		mb	0 g	9.49 g	9.47 g		
680-88067-A-30	HP0255C-CS	Moisture	T	19	0 g	4.30 g	3.36 g		
680-88067-A-29	HP0255B-CS	Moisture	T	20	0 g	4.37 g	3.35 g		
680-88067-A-31	HP0258A-CS	Moisture	T	21	0 g	4.63 g	3.62 g		
680-88067-A-32	HP0258B-CS	Moisture	T	22	0 g	5.10 g	4.10 g		
680-88067-A-28	HP0199B-CS	Moisture	T	23	0 g	5.02 g	3.82 g		
680-88067-A-27	HP0199A-CS	Moisture	T	24	0 g	4.92 g	3.20 g		
680-88067-A-26	CV0632B-SP-SP	Moisture	T	25	0 g	5.04 g	3.72 g		
680-88067-A-25	CV0632A-SP-SP	Moisture	T	26	0 g	4.94 g	3.50 g		
680-88067-A-24	CV0277B-CS-SP	Moisture	T	27	0 g	4.27 g	2.81 g		
680-88067-A-23	CV0277A-CS-SP	Moisture	T	28	0 g	4.51 g	3.77 g		
680-88067-A-22	CV0399B-CS-SP	Moisture	T	29	0 g	4.17 g	2.95 g		
680-88067-A-21	CV0399A-CS-SP	Moisture	T	30	0 g	5.93 g	4.76 g		
680-88067-A-21	CV0399A-CS-SP	Moisture	T	30	0 g	5.93 g	4.76 g		
MSD									
680-88067-A-21	CV0399A-CS-SP	Moisture	T	30	0 g	5.93 g	4.76 g		
MSD									

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.11.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Avenue Removal</i>	PROJECT NO.	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Honey</i>	P.O. NUMBER <i>0005140 1356</i>	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">PRESERVATIVE</div> </div>	STANDARD REPORT DELIVERY <input type="checkbox"/>
CLIENT PHONE	CLIENT FAX				DATE DUE _____
					EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>
					DATE DUE _____
COMPANY CONTRACTING THIS WORK (if applicable)					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

(b) (6)
(b) (6)
(b) (6)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
<i>3/5/13</i>	<i>0910</i>	<i>CV0281A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>0920</i>	<i>CV0281B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>1244</i>	<i>CV0339A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>1254</i>	<i>CV0339B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>10:10</i>	<i>CV0388A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>10:10</i>	<i>CV0388A-CS0</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>10:20</i>	<i>CV0388B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>										
	<i>1307</i>	<i>CV0341A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>1315</i>	<i>CV0341B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>										
	<i>1038</i>	<i>CV0399A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>1048</i>	<i>CV0399B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>0955</i>	<i>CV0552A-CS-SP</i>																

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3/6/13</i>	TIME <i>1800</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/07/13</i>	TIME <i>0944</i>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88067</i>	LABORATORY REMARKS <i>2.8 °C</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Avenue Removal</i>	PROJECT NO.	PROJECT LOCATION (STATE) <i>FL</i>	MATRIX TYPE	REQUIRED ANALYSIS				PAGE <i>3</i>	OF <i>4</i>	
TAL (LAB) PROJECT MANAGER <i>Lisa Inoue</i>	P.O. NUMBER <i>200548-1356</i>	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY	<i>0</i>	
CLIENT NAME	CLIENT E-MAIL	CLIENT FAX						DATE DUE	_____	
COMPANY CONTRACTING THIS WORK (if applicable)			<i>LLDAP & QCPA & PRESERVATIVE</i>				EXPEDITED REPORT DELIVERY (SURCHARGE)	<i>0</i>	DATE DUE	_____

(b) (6)
(b) (6)
(b) (6)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS	
DATE	TIME												
<i>3/5/13</i>	<i>1443</i>	<i>CV0277A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>1456</i>	<i>CV0277B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>1539</i>	<i>CV0632A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>1545</i>	<i>CV0632B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>15:40</i>	<i>HP0199A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>15:50</i>	<i>HP0199B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>14:30</i>	<i>HP0255B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>14:40</i>	<i>HP0255C-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>15:00</i>	<i>HP0258A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>15:10</i>	<i>HP0258B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>10:10</i>	<i>CV0552B-CS-SP (sieve)</i>	<i>C</i>	<i>✓</i>			<i>X</i>						
	<i>10:20</i>	<i>CV0388B-CS (sieve)</i>	<i>C</i>	<i>✓</i>			<i>X</i>						

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3/16/13</i>	TIME <i>1800</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3/17/13</i>	TIME <i>0944</i>	CUSTODY INTACT YES <i>0</i> NO <i>0</i>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>88067</i>	LABORATORY REMARKS <i>2-8</i>
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Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2
SDG Number: 68088067-2

Login Number: 88067
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

SDG Number: 68088067-2

Login Number: 88067

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/08/13 10:02 AM

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88067-2

TestAmerica Sample Delivery Group: 68088067-2

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

3/19/2013 8:48:40 AM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

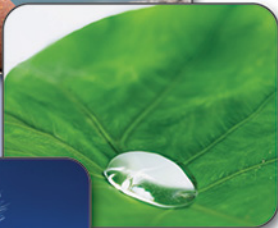
Project Manager II

lisa.harvey@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Job ID: 680-88067-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88067-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0399A-CS-SP (680-88067-21), CV0399B-CS-SP (680-88067-22), CV0277A-CS-SP (680-88067-23), CV0277B-CS-SP (680-88067-24), CV0632A-SP-SP (680-88067-25), CV0632B-SP-SP (680-88067-26), HP0199A-CS (680-88067-27), HP0199B-CS (680-88067-28), HP0255B-CS (680-88067-29), HP0255C-CS (680-88067-30), HP0258A-CS (680-88067-31) and HP0258B-CS (680-88067-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/13/2013 and analyzed on 03/14/2013.

Samples CV0399B-CS-SP (680-88067-22)[4X], CV0632A-SP-SP (680-88067-25)[4X] and CV0632B-SP-SP (680-88067-26)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88067-21	CV0399A-CS-SP	Solid	03/05/13 10:38	03/07/13 09:44
680-88067-22	CV0399B-CS-SP	Solid	03/05/13 10:48	03/07/13 09:44
680-88067-23	CV0277A-CS-SP	Solid	03/05/13 14:43	03/07/13 09:44
680-88067-24	CV0277B-CS-SP	Solid	03/05/13 14:56	03/07/13 09:44
680-88067-25	CV0632A-SP-SP	Solid	03/05/13 15:39	03/07/13 09:44
680-88067-26	CV0632B-SP-SP	Solid	03/05/13 15:45	03/07/13 09:44
680-88067-27	HP0199A-CS	Solid	03/05/13 15:40	03/07/13 09:44
680-88067-28	HP0199B-CS	Solid	03/05/13 15:50	03/07/13 09:44
680-88067-29	HP0255B-CS	Solid	03/05/13 14:30	03/07/13 09:44
680-88067-30	HP0255C-CS	Solid	03/05/13 14:40	03/07/13 09:44
680-88067-31	HP0258A-CS	Solid	03/05/13 15:00	03/07/13 09:44
680-88067-32	HP0258B-CS	Solid	03/05/13 15:10	03/07/13 09:44

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0399A-CS-SP

Lab Sample ID: 680-88067-21

Date Collected: 03/05/13 10:38

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 80.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Acenaphthylene	14	J	49	6.2	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Anthracene	55		10	5.2	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Benzo[a]anthracene	320		9.8	4.8	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Benzo[a]pyrene	300		13	6.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Benzo[b]fluoranthene	530		15	7.5	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Benzo[g,h,i]perylene	230		25	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Benzo[k]fluoranthene	200		9.8	4.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Chrysene	360		11	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Dibenz(a,h)anthracene	69		25	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Fluoranthene	570		25	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Fluorene	23	J	25	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Indeno[1,2,3-cd]pyrene	190		25	8.7	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
1-Methylnaphthalene	69		49	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
2-Methylnaphthalene	83		49	8.7	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Naphthalene	54		49	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Phenanthrene	310		9.8	4.8	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1
Pyrene	490		25	4.6	ug/Kg	☼	03/13/13 12:00	03/14/13 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		30 - 130	03/13/13 12:00	03/14/13 15:52	1

Client Sample ID: CV0399B-CS-SP

Lab Sample ID: 680-88067-22

Date Collected: 03/05/13 10:48

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 70.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Acenaphthylene	98	J	220	28	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Anthracene	220		47	23	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Benzo[a]anthracene	1100		44	22	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Benzo[a]pyrene	1000		58	29	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Benzo[b]fluoranthene	1700		68	34	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Benzo[g,h,i]perylene	650		110	24	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Benzo[k]fluoranthene	620		44	20	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Chrysene	1200		50	25	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Dibenz(a,h)anthracene	220		110	23	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Fluoranthene	2100		110	22	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Fluorene	100	J	110	23	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Indeno[1,2,3-cd]pyrene	650		110	39	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
1-Methylnaphthalene	110	J	220	24	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
2-Methylnaphthalene	130	J	220	39	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Naphthalene	140	J	220	24	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Phenanthrene	1100		44	22	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4
Pyrene	2000		110	21	ug/Kg	☼	03/13/13 12:00	03/14/13 16:47	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130	03/13/13 12:00	03/14/13 16:47	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0277A-CS-SP

Lab Sample ID: 680-88067-23

Date Collected: 03/05/13 14:43

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 83.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Acenaphthylene	18	J	48	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Anthracene	43		10	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Benzo[a]anthracene	510		9.6	4.7	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Benzo[a]pyrene	500		12	6.2	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Benzo[b]fluoranthene	950		15	7.3	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Benzo[g,h,i]perylene	370		24	5.3	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Benzo[k]fluoranthene	430		9.6	4.3	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Chrysene	770		11	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Dibenz(a,h)anthracene	120		24	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Fluoranthene	1000		24	4.8	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Fluorene	17	J	24	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Indeno[1,2,3-cd]pyrene	370		24	8.5	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
1-Methylnaphthalene	77		48	5.3	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
2-Methylnaphthalene	96		48	8.5	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Naphthalene	82		48	5.3	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Phenanthrene	290		9.6	4.7	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Pyrene	910		24	4.4	ug/Kg	☼	03/13/13 12:00	03/14/13 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/13/13 12:00	03/14/13 17:06	1

Client Sample ID: CV0277B-CS-SP

Lab Sample ID: 680-88067-24

Date Collected: 03/05/13 14:56

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 65.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	150	30	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Acenaphthylene	24	J	60	7.5	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Anthracene	160		13	6.3	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Benzo[a]anthracene	650		12	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Benzo[a]pyrene	680		16	7.8	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Benzo[b]fluoranthene	1000		18	9.1	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Benzo[g,h,i]perylene	420		30	6.6	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Benzo[k]fluoranthene	500		12	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Chrysene	870		13	6.7	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Dibenz(a,h)anthracene	130		30	6.1	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Fluoranthene	1400		30	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Fluorene	33		30	6.1	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Indeno[1,2,3-cd]pyrene	340		30	11	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
1-Methylnaphthalene	120		60	6.6	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
2-Methylnaphthalene	140		60	11	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Naphthalene	110		60	6.6	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Phenanthrene	760		12	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Pyrene	1500		30	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/13/13 12:00	03/14/13 17:24	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0632A-SP-SP

Lab Sample ID: 680-88067-25

Date Collected: 03/05/13 15:39

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 70.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Acenaphthylene	54	J	230	28	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Anthracene	110		48	24	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Benzo[a]anthracene	560		45	22	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Benzo[a]pyrene	470		59	29	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Benzo[b]fluoranthene	930		69	35	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Benzo[g,h,i]perylene	310		110	25	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Benzo[k]fluoranthene	210		45	20	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Chrysene	730		51	25	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Dibenz(a,h)anthracene	90	J	110	23	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Fluoranthene	1000		110	23	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Fluorene	45	J	110	23	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Indeno[1,2,3-cd]pyrene	290		110	40	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
1-Methylnaphthalene	360		230	25	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
2-Methylnaphthalene	390		230	40	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Naphthalene	270		230	25	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Phenanthrene	750		45	22	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Pyrene	980		110	21	ug/Kg	☼	03/13/13 12:00	03/14/13 17:42	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/13/13 12:00	03/14/13 17:42	4

Client Sample ID: CV0632B-SP-SP

Lab Sample ID: 680-88067-26

Date Collected: 03/05/13 15:45

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 73.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Acenaphthylene	55	J	210	27	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Anthracene	190		45	22	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Benzo[a]anthracene	1200		42	21	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Benzo[a]pyrene	1100		55	28	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Benzo[b]fluoranthene	1800		65	32	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Benzo[g,h,i]perylene	690		110	23	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Benzo[k]fluoranthene	730		42	19	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Chrysene	1300		48	24	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Dibenz(a,h)anthracene	230		110	22	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Fluoranthene	2000		110	21	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Fluorene	55	J	110	22	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Indeno[1,2,3-cd]pyrene	550		110	38	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
1-Methylnaphthalene	380		210	23	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
2-Methylnaphthalene	400		210	38	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Naphthalene	270		210	23	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Phenanthrene	980		42	21	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Pyrene	1800		110	20	ug/Kg	☼	03/13/13 12:00	03/14/13 18:01	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/13/13 12:00	03/14/13 18:01	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: HP0199A-CS

Lab Sample ID: 680-88067-27

Date Collected: 03/05/13 15:40

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 65.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Acenaphthylene	62	U	62	7.7	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Anthracene	13	U	13	6.5	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Benzo[a]anthracene	25		12	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Benzo[a]pyrene	16		16	8.0	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Benzo[b]fluoranthene	22		19	9.4	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Benzo[g,h,i]perylene	19 J		31	6.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Benzo[k]fluoranthene	16		12	5.6	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Chrysene	35		14	7.0	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Dibenz(a,h)an hracene	31	U	31	6.3	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Fluoranthene	29 J		31	6.2	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Fluorene	31	U	31	6.3	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Indeno[1,2,3-cd]pyrene	31	U	31	11	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
1-Methylnaphthalene	10 J		62	6.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
2-Methylnaphthalene	13 J		62	11	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Naphthalene	18 J		62	6.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Phenanthrene	26		12	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Pyrene	27 J		31	5.7	ug/Kg	☼	03/13/13 12:00	03/14/13 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/13/13 12:00	03/14/13 18:19	1

Client Sample ID: HP0199B-CS

Lab Sample ID: 680-88067-28

Date Collected: 03/05/13 15:50

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 76.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1300	U	1300	260	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Acenaphthylene	520	U	520	66	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Anthracene	110	U	110	55	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Benzo[a]anthracene	100	U	100	51	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Benzo[a]pyrene	140	U	140	68	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Benzo[b]fluoranthene	100 J		160	80	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Benzo[g,h,i]perylene	120 J		260	58	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Benzo[k]fluoranthene	100	U	100	47	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Chrysene	120	U	120	59	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Dibenz(a,h)an hracene	260	U	260	54	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Fluoranthene	110 J		260	52	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Fluorene	260	U	260	54	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Indeno[1,2,3-cd]pyrene	260	U	260	93	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
1-Methylnaphthalene	520	U	520	58	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
2-Methylnaphthalene	520	U	520	93	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Naphthalene	59 J		520	58	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Phenanthrene	120		100	51	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Pyrene	98 J		260	48	ug/Kg	☼	03/13/13 12:00	03/14/13 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130				03/13/13 12:00	03/14/13 18:37	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: HP0255B-CS

Lab Sample ID: 680-88067-29

Date Collected: 03/05/13 14:30

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 76.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Acenaphthylene	25	J	52	6.5	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Anthracene	36		11	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[a]anthracene	180		10	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[a]pyrene	200		14	6.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[b]fluoranthene	350		16	8.0	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[g,h,i]perylene	180		26	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Benzo[k]fluoranthene	150		10	4.7	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Chrysene	210		12	5.9	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Dibenz(a,h)anthracene	68		26	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Fluoranthene	260		26	5.2	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Fluorene	18	J	26	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Indeno[1,2,3-cd]pyrene	130		26	9.3	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
1-Methylnaphthalene	44	J	52	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
2-Methylnaphthalene	66		52	9.3	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Naphthalene	58		52	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Phenanthrene	230		10	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Pyrene	260		26	4.8	ug/Kg	☼	03/13/13 12:00	03/14/13 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		30 - 130				03/13/13 12:00	03/14/13 18:56	1

Client Sample ID: HP0255C-CS

Lab Sample ID: 680-88067-30

Date Collected: 03/05/13 14:40

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 78.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Acenaphthylene	18	J	50	6.3	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Anthracene	16		11	5.3	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[a]anthracene	66		10	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[a]pyrene	67		13	6.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[b]fluoranthene	150		15	7.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[g,h,i]perylene	63		25	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Benzo[k]fluoranthene	75		10	4.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Chrysene	100		11	5.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Dibenz(a,h)anthracene	19	J	25	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Fluoranthene	120		25	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Fluorene	7.8	J	25	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Indeno[1,2,3-cd]pyrene	56		25	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
1-Methylnaphthalene	29	J	50	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
2-Methylnaphthalene	26	J	50	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Naphthalene	38	J	50	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Phenanthrene	88		10	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Pyrene	110		25	4.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/13/13 12:00	03/14/13 19:14	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: HP0258A-CS

Lab Sample ID: 680-88067-31

Date Collected: 03/05/13 15:00

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 78.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Acenaphthylene	8.7	J	50	6.2	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Anthracene	14		10	5.2	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Benzo[a]anthracene	56		10	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Benzo[a]pyrene	62		13	6.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Benzo[b]fluoranthene	120		15	7.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Benzo[g,h,i]perylene	48		25	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Benzo[k]fluoranthene	47		10	4.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Chrysene	100		11	5.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Dibenz(a,h)anthracene	21	J	25	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Fluoranthene	67		25	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Fluorene	11	J	25	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Indeno[1,2,3-cd]pyrene	44		25	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
1-Methylnaphthalene	46	J	50	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
2-Methylnaphthalene	55		50	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Naphthalene	57		50	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Phenanthrene	66		10	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Pyrene	75		25	4.6	ug/Kg	☼	03/13/13 12:00	03/14/13 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/13/13 12:00	03/14/13 19:32	1

Client Sample ID: HP0258B-CS

Lab Sample ID: 680-88067-32

Date Collected: 03/05/13 15:10

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 80.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Acenaphthylene	11	J	49	6.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Anthracene	19		10	5.1	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Benzo[a]anthracene	110		9.8	4.8	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Benzo[a]pyrene	110		13	6.3	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Benzo[b]fluoranthene	200		15	7.4	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Benzo[g,h,i]perylene	81		24	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Benzo[k]fluoranthene	84		9.8	4.4	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Chrysene	160		11	5.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Dibenz(a,h)anthracene	26		24	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Fluoranthene	190		24	4.9	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Fluorene	24	U	24	5.0	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Indeno[1,2,3-cd]pyrene	71		24	8.7	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
1-Methylnaphthalene	38	J	49	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
2-Methylnaphthalene	31	J	49	8.7	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Naphthalene	53		49	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Phenanthrene	99		9.8	4.8	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Pyrene	180		24	4.5	ug/Kg	☼	03/13/13 12:00	03/14/13 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		30 - 130				03/13/13 12:00	03/14/13 19:51	1

TestAmerica Savannah

QC Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 660-135343/1-A

Matrix: Solid

Analysis Batch: 135453

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Dibenz(a,h)anthracene	19	U	19	4.0	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Fluoranthene	19	U	19	3.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Fluorene	19	U	19	4.0	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Naphthalene	39	U	39	4.3	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Pyrene	19	U	19	3.6	ug/Kg		03/13/13 12:00	03/14/13 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		30 - 130	03/13/13 12:00	03/14/13 12:12	1

Lab Sample ID: LCS 660-135343/2-A

Matrix: Solid

Analysis Batch: 135453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	656	484		ug/Kg		74	39 - 130
Acenaphthylene	656	504		ug/Kg		77	38 - 130
Anthracene	656	524		ug/Kg		80	37 - 130
Benzo[a]anthracene	656	524		ug/Kg		80	40 - 130
Benzo[a]pyrene	656	477		ug/Kg		73	49 - 130
Benzo[b]fluoranthene	656	541		ug/Kg		82	37 - 130
Benzo[g,h,i]perylene	656	487		ug/Kg		74	32 - 130
Benzo[k]fluoranthene	656	514		ug/Kg		78	32 - 130
Chrysene	656	502		ug/Kg		76	41 - 130
Dibenz(a,h)anthracene	656	513		ug/Kg		78	27 - 130
Fluoranthene	656	532		ug/Kg		81	40 - 130
Fluorene	656	524		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	656	468		ug/Kg		71	30 - 130
1-Methylnaphthalene	656	542		ug/Kg		83	31 - 130
2-Methylnaphthalene	656	532		ug/Kg		81	33 - 130
Naphthalene	656	510		ug/Kg		78	36 - 130
Phenanthrene	656	499		ug/Kg		76	42 - 130
Pyrene	656	526		ug/Kg		80	44 - 130

TestAmerica Savannah

QC Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-135343/2-A
Matrix: Solid
Analysis Batch: 135453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135343

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>LCS</i> Qualifier	<i>Limits</i>
<i>o-Terphenyl</i>	79		30 - 130

Lab Sample ID: 680-88067-21 MS
Matrix: Solid
Analysis Batch: 135453

Client Sample ID: CV0399A-CS-SP
Prep Type: Total/NA
Prep Batch: 135343

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Acenaphthene	120	U	820	518		ug/Kg	☼	63	39 - 130
Acenaphthylene	14	J	820	507		ug/Kg	☼	60	38 - 130
Anthracene	55		820	645		ug/Kg	☼	72	37 - 130
Benzo[a]anthracene	320		820	952		ug/Kg	☼	77	40 - 130
Benzo[a]pyrene	300		820	884		ug/Kg	☼	71	49 - 130
Benzo[b]fluoranthene	530		820	1170		ug/Kg	☼	78	37 - 130
Benzo[g,h,i]perylene	230		820	776		ug/Kg	☼	67	32 - 130
Benzo[k]fluoranthene	200		820	844		ug/Kg	☼	78	32 - 130
Chrysene	360		820	913		ug/Kg	☼	67	41 - 130
Dibenz(a,h)anthracene	69		820	651		ug/Kg	☼	71	27 - 130
Fluoranthene	570		820	1170		ug/Kg	☼	73	40 - 130
Fluorene	23	J	820	604		ug/Kg	☼	71	40 - 130
Indeno[1,2,3-cd]pyrene	190		820	741		ug/Kg	☼	67	30 - 130
1-Methylnaphthalene	69		820	569		ug/Kg	☼	61	31 - 130
2-Methylnaphthalene	83		820	531		ug/Kg	☼	55	33 - 130
Naphthalene	54		820	452		ug/Kg	☼	48	36 - 130
Phenanthrene	310		820	882		ug/Kg	☼	70	42 - 130
Pyrene	490		820	1150		ug/Kg	☼	81	44 - 130

<i>Surrogate</i>	<i>MS</i> %Recovery	<i>MS</i> Qualifier	<i>Limits</i>
<i>o-Terphenyl</i>	68		30 - 130

Lab Sample ID: 680-88067-21 MSD
Matrix: Solid
Analysis Batch: 135453

Client Sample ID: CV0399A-CS-SP
Prep Type: Total/NA
Prep Batch: 135343

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Acenaphthene	120	U	820	553		ug/Kg	☼	67	39 - 130	7	40
Acenaphthylene	14	J	820	591		ug/Kg	☼	70	38 - 130	15	40
Anthracene	55		820	645		ug/Kg	☼	72	37 - 130	0	40
Benzo[a]anthracene	320		820	998		ug/Kg	☼	82	40 - 130	5	40
Benzo[a]pyrene	300		820	918		ug/Kg	☼	75	49 - 130	4	40
Benzo[b]fluoranthene	530		820	1230		ug/Kg	☼	86	37 - 130	5	40
Benzo[g,h,i]perylene	230		820	790		ug/Kg	☼	69	32 - 130	2	40
Benzo[k]fluoranthene	200		820	853		ug/Kg	☼	79	32 - 130	1	40
Chrysene	360		820	919		ug/Kg	☼	68	41 - 130	1	40
Dibenz(a,h)anthracene	69		820	648		ug/Kg	☼	71	27 - 130	1	40
Fluoranthene	570		820	1320		ug/Kg	☼	91	40 - 130	12	40
Fluorene	23	J	820	580		ug/Kg	☼	68	40 - 130	4	40
Indeno[1,2,3-cd]pyrene	190		820	780		ug/Kg	☼	72	30 - 130	5	40
1-Methylnaphthalene	69		820	627		ug/Kg	☼	68	31 - 130	10	40

TestAmerica Savannah

QC Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-88067-21 MSD

Matrix: Solid

Analysis Batch: 135453

Client Sample ID: CV0399A-CS-SP

Prep Type: Total/NA

Prep Batch: 135343

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
2-Methylnaphthalene	83		820	614		ug/Kg	☆	65	33 - 130	15		40
Naphthalene	54		820	552		ug/Kg	☆	61	36 - 130	20		40
Phenanthrene	310		820	929		ug/Kg	☆	76	42 - 130	5		40
Pyrene	490		820	1250		ug/Kg	☆	94	44 - 130	8		40
Surrogate	MSD MSD		Limits									
<i>o</i> -Terphenyl	%Recovery	Qualifier										
	68		30 - 130									

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

GC/MS Semi VOA

Prep Batch: 135343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-21	CV0399A-CS-SP	Total/NA	Solid	3546	
680-88067-21 MS	CV0399A-CS-SP	Total/NA	Solid	3546	
680-88067-21 MSD	CV0399A-CS-SP	Total/NA	Solid	3546	
680-88067-22	CV0399B-CS-SP	Total/NA	Solid	3546	
680-88067-23	CV0277A-CS-SP	Total/NA	Solid	3546	
680-88067-24	CV0277B-CS-SP	Total/NA	Solid	3546	
680-88067-25	CV0632A-SP-SP	Total/NA	Solid	3546	
680-88067-26	CV0632B-SP-SP	Total/NA	Solid	3546	
680-88067-27	HP0199A-CS	Total/NA	Solid	3546	
680-88067-28	HP0199B-CS	Total/NA	Solid	3546	
680-88067-29	HP0255B-CS	Total/NA	Solid	3546	
680-88067-30	HP0255C-CS	Total/NA	Solid	3546	
680-88067-31	HP0258A-CS	Total/NA	Solid	3546	
680-88067-32	HP0258B-CS	Total/NA	Solid	3546	
LCS 660-135343/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135343/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-21	CV0399A-CS-SP	Total/NA	Solid	8270C LL	135343
680-88067-21 MS	CV0399A-CS-SP	Total/NA	Solid	8270C LL	135343
680-88067-21 MSD	CV0399A-CS-SP	Total/NA	Solid	8270C LL	135343
680-88067-22	CV0399B-CS-SP	Total/NA	Solid	8270C LL	135343
680-88067-23	CV0277A-CS-SP	Total/NA	Solid	8270C LL	135343
680-88067-24	CV0277B-CS-SP	Total/NA	Solid	8270C LL	135343
680-88067-25	CV0632A-SP-SP	Total/NA	Solid	8270C LL	135343
680-88067-26	CV0632B-SP-SP	Total/NA	Solid	8270C LL	135343
680-88067-27	HP0199A-CS	Total/NA	Solid	8270C LL	135343
680-88067-28	HP0199B-CS	Total/NA	Solid	8270C LL	135343
680-88067-29	HP0255B-CS	Total/NA	Solid	8270C LL	135343
680-88067-30	HP0255C-CS	Total/NA	Solid	8270C LL	135343
680-88067-31	HP0258A-CS	Total/NA	Solid	8270C LL	135343
680-88067-32	HP0258B-CS	Total/NA	Solid	8270C LL	135343
LCS 660-135343/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135343
MB 660-135343/1-A	Method Blank	Total/NA	Solid	8270C LL	135343

General Chemistry

Analysis Batch: 135227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-21	CV0399A-CS-SP	Total/NA	Solid	Moisture	
680-88067-21 MS	CV0399A-CS-SP	Total/NA	Solid	Moisture	
680-88067-21 MSD	CV0399A-CS-SP	Total/NA	Solid	Moisture	
680-88067-22	CV0399B-CS-SP	Total/NA	Solid	Moisture	
680-88067-23	CV0277A-CS-SP	Total/NA	Solid	Moisture	
680-88067-24	CV0277B-CS-SP	Total/NA	Solid	Moisture	
680-88067-25	CV0632A-SP-SP	Total/NA	Solid	Moisture	
680-88067-26	CV0632B-SP-SP	Total/NA	Solid	Moisture	
680-88067-27	HP0199A-CS	Total/NA	Solid	Moisture	
680-88067-28	HP0199B-CS	Total/NA	Solid	Moisture	

TestAmerica Savannah

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

General Chemistry (Continued)

Analysis Batch: 135227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-29	HP0255B-CS	Total/NA	Solid	Moisture	
680-88067-30	HP0255C-CS	Total/NA	Solid	Moisture	
680-88067-31	HP0258A-CS	Total/NA	Solid	Moisture	
680-88067-32	HP0258B-CS	Total/NA	Solid	Moisture	
MB 660-135227/1	Method Blank	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0399A-CS-SP

Lab Sample ID: 680-88067-21

Date Collected: 03/05/13 10:38

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 15:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0399B-CS-SP

Lab Sample ID: 680-88067-22

Date Collected: 03/05/13 10:48

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135453	03/14/13 16:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0277A-CS-SP

Lab Sample ID: 680-88067-23

Date Collected: 03/05/13 14:43

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 17:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0277B-CS-SP

Lab Sample ID: 680-88067-24

Date Collected: 03/05/13 14:56

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 65.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 17:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0632A-SP-SP

Lab Sample ID: 680-88067-25

Date Collected: 03/05/13 15:39

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135453	03/14/13 17:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Client Sample ID: CV0632B-SP-SP

Lab Sample ID: 680-88067-26

Date Collected: 03/05/13 15:45

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135453	03/14/13 18:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0199A-CS

Lab Sample ID: 680-88067-27

Date Collected: 03/05/13 15:40

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 65.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 18:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0199B-CS

Lab Sample ID: 680-88067-28

Date Collected: 03/05/13 15:50

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 18:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0255B-CS

Lab Sample ID: 680-88067-29

Date Collected: 03/05/13 14:30

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 18:56	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0255C-CS

Lab Sample ID: 680-88067-30

Date Collected: 03/05/13 14:40

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 19:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Client Sample ID: HP0258A-CS

Lab Sample ID: 680-88067-31

Date Collected: 03/05/13 15:00

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 19:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0258B-CS

Lab Sample ID: 680-88067-32

Date Collected: 03/05/13 15:10

Matrix: Solid

Date Received: 03/07/13 09:44

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 19:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Avenue Removal</i>	PROJECT NO.	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS						PAGE <i>2</i>	OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Honey</i>	P.O. NUMBER <i>0005481356</i>	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LLDPE</i>	<i>RCRA8</i>						STANDARD REPORT DELIVERY DATE DUE _____
CLIENT PHONE	CLIENT FAX	CLIENT EMAIL									EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____

PRESERVATIVE

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED						REMARKS
DATE	TIME													
<i>3/5/13</i>	<i>0910</i>	<i>CVX281A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>0920</i>	<i>CVX281B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>1244</i>	<i>CVX339A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>1254</i>	<i>CVX339B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>10:10</i>	<i>CVX388A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>10:10</i>	<i>CVX388A-CSD</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>10:20</i>	<i>CVX388B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>						
	<i>1307</i>	<i>CVX341A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>1315</i>	<i>CVX341B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>						
	<i>1038</i>	<i>CVX399A-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>1048</i>	<i>CVX399B-CS-SP</i>	<i>C</i>	<i>✓</i>			<i>X</i>							
	<i>0955</i>	<i>CVX552A-CS-SP</i>												

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3/6/13</i>	TIME <i>1800</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/07/13</i>	TIME <i>0944</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88867</i>	LABORATORY REMARKS <i>2.8</i>
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(b) (6)

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Avenue Removal	PROJECT NO.	PROJECT LOCATION (STATE) FL	MATRIX TYPE	REQUIRED ANALYSIS				PAGE 3	OF 4
TAL (LAB) PROJECT MANAGER Lisa Inoue	P.O. NUMBER 200548-1356	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	URAH	200548	PRESERVATIVE			
CLIENT NAME	CLIENT E-MAIL	CLIENT FAX							
COMPANY CONTRACTING THIS WORK (if applicable)								EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____	0
								NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME											
3/5/13	1443	CV0277A-CS-SP	C	✓			X					
	1456	CV0277B-CS-SP	C	✓			X					
	1539	CV0632A-CS-SP	C	✓			X					
	1545	CV0632B-CS-SP	C	✓			X					
	15:40	HP0199A-CS	C	✓			X					
	15:50	HP0199B-CS	C	✓			X					
	14:30	HP0255B-CS	C	✓			X					
	14:40	HP0255C-CS	C	✓			X					
	15:00	HP0258A-CS	C	✓			X					
	15:10	HP0258B-CS	C	✓			X					
	10:10	CV0552B-CS-SP (sieve)	C	✓			X					
	10:30	CV0388B-CS (sieve)	C	✓			X					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/6/13	TIME 1800	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/07/13	TIME 0944	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 88067	LABORATORY REMARKS 2.8
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(b) (6)
(b) (6)
(b) (6)

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Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

SDG Number: 68088067-2

Login Number: 88067

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-2

SDG Number: 68088067-2

Login Number: 88067

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 03/08/13 10:02 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
 SDG: 68088067-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

TestAmerica Savannah

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-2
SDG: 68088067-2

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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